



RESEARCH CENTER

FIELD

Perception, Cognition and Interaction

Activity Report 2015

Section Dissemination

Edition: 2016-03-21

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DAHU Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events organisation

9.1.1.1. General chair, scientific chair

Serge Abiteboul participated with Olivier Baudon to the organization in 2015 of the seminar of the Société Informatique de France “Enseignement de l’informatique pour les humanités et les sciences sociales”.

9.1.2. Scientific events selection

9.1.2.1. Member of the conference program committees

Serge Abiteboul: Data engineering (ICDE’2015); Management of data (Sigmod’2015); Very Large Database (VLDB’2015); Web Database (WebDB’2015). In 2015, Serge Abiteboul also participated in Awards committees for the French Academy of Sciences and the British Royal Society (Milner Award).

Sylvain Schmitz: Reachability Problems (RP’15).

Cristina Sirangelo: ICDT’15. PODS’15. PODS’16.

Victor Vianu: ICDT’15.

9.1.2.2. Reviewer

The members of the team reviewed numerous papers for numerous international conferences and journals.

9.1.3. Journal

9.1.3.1. Member of the editorial boards

Victor Vianu: Editor-in-Chief of JACM, Associate Editor of ACM TOCL, Editor of the Database Theory column in SIGACT News.

9.1.4. Invited talks

Victor Vianu gave two invited talks: One at the Alberto. O. Mendelzon Workshop, Lima, Peru, May 6-8 2015. A second one at the Martin Abadi Honoris Causa Symposium, ENS Cachan, June 2015.

Sylvain Schmitz gave two invited talks, at ACTS 2015 in Chennai, India, and at the DIMAP Logic Day 2015 in Warwick, UK.

Serge Abiteboul gave invited talks at the Advances in Database and Information Systems Conference (keynote - Poitiers), Profile, Predict, and Prevent Conference (Law, Paris), TTOW Conference (History, Paris), DSAAI Conference (Paris), Filocs Workshop (Tel Aviv), Data science symposium (Rennes), CNRS Mastodons Workshop (Paris), Inria EPFL Workshop (Lausanne), UPMC Seminar (Paris 6)...

He also gave invited talks in industry (Thalles, Accenture).

9.1.5. Leadership within the scientific community

Serge Abiteboul was nominated co-chair of the Parity and Equality committee of Inria.

9.1.6. Scientific expertise

Sylvain Schmitz reviewed grant proposals for the Agence Nationale de la Recherche (ANR) and the Austrian Science Fund (FWF).

9.1.7. Research administration

Since 2015 Luc Segoufin is an elected member of the CNRS of Inria.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Licence : Cristina Sirangelo, Databases, 24h L3, ENS Cachan
 Licence : Cristina Sirangelo, Database project, 22.5h, L3, ENS Cachan
 Master : Cristina Sirangelo, Algorithms, 37h, M2, ENS Cachan
 Master : Cristina Sirangelo, Advanced complexity theory, 30h M1, ENS Cachan
 Graduate : Cristina Sirangelo, Web sites, 18h, Ecole doctorale ENS Cachan
 Graduate : Cristina Sirangelo, Databases, 18h, Ecole doctorale ENS Cachan
 Graduate : Cristina Sirangelo, Web search, 18h, Ecole doctorale ENS Cachan
 Licence : Sylvain Schmitz, Complexity, 22.5h, L3, ENS Cachan, France
 Master : Sylvain Schmitz, Introduction to Verification, 19h, M1, ENS Cachan, France
 Master : Sylvain Schmitz, Formal Languages, 37.5h, M2, ENS Cachan, France
 Master : Sylvain Schmitz, Logical and Computational Structures for Linguistic Modeling, 18h, M2, ENS Cachan, France
 Master : Serge Abiteboul, Web data management, 15h, MPRI
 Licence : Serge Abiteboul, Relational databases, 30h, ENS Cachan

E-learning

Mooc Bases de Données Relationnelles - Bador (in French), Inria Fun, Serge Abiteboul, Benjamin Nguyen and Philippe Rigaux, Start January 2016; about 6000 students registered, 6+ weeks. Target audience: students in L3/Master, engineers and scientists using databases.

9.2.2. Supervision

PhD : Nadime Francis, View-based query determinacy and rewritings over graph databases, 08/12/2015 [11], Luc Segoufin and Cristina Sirangelo
 PhD in progress: Nathan Grosshans, branching program, 01/09/2014, Luc Segoufin and Pierre McKenzie (University of Montreal)
 PhD in progress: David Montoya, Personal information management systems, 01/02/2014, Serge Abiteboul
 PhD in progress: Alexandre Vigny, enumeration, 01/09/2015, Luc Segoufin and Arnaud Durand
 PhD in progress: Karima Rafes, Web semantic and Internet of Thing, 01/02/2015, Serge Abiteboul
 PhD in progress: Simon Halfon, Well quasi orders, 01/09/2015, Sylvain Schmitz and Philippe Schnoebelen

9.2.3. Juries

Cristina Sirangelo was in the jury for ingenieur d'étude of ENS-Cachan in July 2015.

Sylvain Schmitz was on the Ph.D. committee of Jérôme Kirman, Université de Bordeaux, in December 2015.

Serge Abiteboul was on the Ph.D. committee of Stamatis Zampetakis, University of Paris-Saclay, in September 2015.

9.3. Popularization

For the last couple of years, Serge Abiteboul has initiated and is coordinating an invited blog for Le Monde newspaper, namely Binaire, <http://binaire.blog.lemonde.fr>. He is the initiator of “The Cabale Informatique de France”, a joint action between the Société Informatique de France and Wikipédia France to improve the quality of Wikipédia pages about Computer Science in France.

Serge Abiteboul participated in a documentary "Nos ordinateurs ont-ils la mémoire courte" (directed by Vincent Amouroux, Zed production) that was showed on Arte in September 2015. He wrote popularization articles, in particular, [13] (on Personal information systems), [28] (on the Responsibility of algorithms, and notably data analysis algorithms; short version in French in Le Monde) and [27] (on Digital humanities).

Serge Abiteboul gave talks to Congrès National des Profs de Physique Chimie (La Rochelle), Forum Big Data (La Vilette), Congrès APLCPCGE ("prépas", Paris), UPMC Colloquium (Paris)... He was audited for the French Parliament (OPECST, Big data and Agriculture).

In 2015, Serge Abiteboul was a member of the "Conseil national du numérique".

DREAM Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

Local chairs of PFIA 2015 in Rennes (T. Guyet, R. Quiniou).

Organization chair (T. Guyet) and program committee members (T. Guyet, R. Quiniou) of GAST workshop at EGC 2015 and at EGC 2016.

10.1.1.2. Member of the organizing committees

Organizer of the workshop "Data mining in industry: case study in embedded systems" at the IRISA Data Science fair (A. Termier).

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

Program committee members of EGC 2015 and 2016 (R. Quiniou, A. Termier).

Program committee member of IJCAI 2015 and 2016 (T. Guyet).

Program committee member of KR 2016 (T. Guyet).

Program committee member of DSAA 2015 (A. Termier)

Program committee member of ICDM 2015 (A. Termier)

Program committee member of ECML/PKDD 2015 (A. Termier)

Program committee member of KDD 2016 (A. Termier)

10.1.3. Journal

10.1.3.1. Member of the editorial boards

Members of the editorial board of RIA (Revue d'Intelligence Artificielle) (T. Guyet).

10.1.3.2. Reviewer - Reviewing activities

Journal of Biomedical Informatics (T. Guyet).

ACM Computing Surveys (T. Guyet).

Data Mining and Knowledge Discovery (A. Termier)

The Very Large DataBases journal (A. Termier)

10.1.4. Invited talks

"Intelligence artificielle et Fouille de données: questions ouvertes et perspectives pour les thématiques des JFPDA", JFPDA conference, july 2015: T. Guyet.

"Pattern mining with ASP", LIFO, Orléans, october 2015: T. Guyet

"Intelligence artificielle et Fouille de données", I-Cube, Strasbourg, november 2015: T. Guyet

"Pattern mining for execution traces: a report", GREY, Caen, February 2015: A. Termier

10.1.5. Leadership within the scientific community

Representative of Inria for the "e-Agriculture" program, which goal is to organize further governmental actions to develop numerical agriculture: A. Termier

Co-representative of Inria, with E. Prados, in the Transition² action undertaken with the FING: A. Termier

Member of the AFIA board, treasurer (since october 2011): T. Guyet.

10.1.6. Scientific expertise

Evaluation of a project proposal for the University of Padova: A. Termier

Evaluation of a CIFRE PhD proposal for the ANRT: A. Termier

Evaluation of a project proposal for the ANR: R. Quiniou

10.1.7. Research administration

Member of INRA CEI (Engineers Evaluation Committee): T. Guyet.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Many members of the EPI Dream are also faculty members and are actively involved in computer science teaching programs in ISTIC, INSA and Agrocampus-Ouest. Besides these usual teachings Dream is involved in the following programs:

Master: Module DSS: Apprentissage sur des données séquentielles symboliques, 10 h, M2, Istic University of Rennes 1 (R. Quiniou).

Master: C++ Programming, M1, ENSAI, Rennes (T. Guyet),

Master: Géoinformation, M2, Agrocampus Ouest Rennes (L. Bonneau, T. Guyet, C. Largouët)

10.2.2. Supervision

PhD: Serge Vladimir Emteu Tchagou, "Stream mining techniques for online monitoring of MP-SoC applications", december 15th 2015, co-supervisors Alexandre Termier, René Quiniou, Miguel Santana and Jean-François Méhaut

PhD in progress: Clément Gautrais, "Mining massive data from client purchases", october 1st 2015, Alexandre Termier, Peggy Cellier, Thomas Guyet and René Quiniou

PhD in progress: Yann Dauxais, "Query-language for care-pathway mining and analysis", february 1st 2015, David Gross-Amblard, Thomas Guyet, André Happe

10.2.3. Juries

Committee member of Serge Vladimir Emteu Tchagou Phd defense (Université de Grenoble Alpes): R. Quiniou, A. Termier.

Committee member of Ying Xiao Phd defense (Université de Lorraine): C. Largouët

Thesis advisory committee member of Benoit Bellot (INRA/IGEPP): T. Guyet.

Comittee member of Haykel Boukadida Phd defense (Université de Rennes 1): A. Termier

Comittee member of Elisa Fromont HDR defense (Université Jean Monet, St Etienne): A. Termier

10.3. Popularization

M.-O. Cordier is editorial board member of Interstices webzine.

EXMO Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- Jérôme Euzenat was organiser of the 10th Ontology matching workshop of the 14th ISWC, Bethlehem (US), 2015 (with Pavel Shvaiko, Ernesto Jiménez Ruiz, Okie Hassanzadeh and Michele Cheatham),

10.1.1.2. Member of the organizing committees

- Jérôme David has been member of the organisation committee of the “Web of data summer school”, Saint-Étienne (FR).
- Jérôme Euzenat was part of the Ontology alignment evaluation initiative (OAEI) organising team.

10.1.2. Scientific events selection

10.1.2.1. Member of conference program committees

- Manuel Atencia and Jérôme Euzenat were programme committee members of the “International Joint Conference on Artificial Intelligence (IJCAI)”, 2015.
- Jérôme Euzenat was programme committee member of the 14th “International semantic web conference (ISWC)” 2015.
- Manuel Atencia, Jérôme David and Jérôme Euzenat have been programme committee members for the 12th “European Semantic Web Conference (ESWC)”, 2015.
- Jérôme Euzenat was programme committee member of the “International and Interdisciplinary Conference on Modeling and Using Context (Context)” 2015.
- Jérôme Euzenat was programme committee member of the “Pacific-rim conference on multi-agent systems (PRIMA)”, 2015
- Jérôme Euzenat was programme committee member of the “Brazilian conference on ontological research (OntoBras)”, 2015.
- Jérôme David was programme committee member of the "Semantic Publishing Challenge" (colocated with ESWC 2015) 2015.
- Jérôme David and Jérôme Euzenat were programme committee members of the “knowledge engineering (ingénierie des connaissances)” conference 2015.
- Jérôme David was programme committee member of the 10th “Ontology matching workshop (OM)”, 2015.

10.1.2.2. Reviewer

- Jérôme David and Adam Sanchez-Ayte have been reviewers for the “International Joint Conference on Artificial Intelligence (IJCAI)”, 2015.
- Jérôme David has been a reviewer for the 4th “International semantic web conference (ISWC)” 2015.
- Tatiana Lesnikova has been a reviewer for the 12th “European Semantic Web Conference (ESWC)”, 2015.
- Tatiana Lesnikova and Jérôme Euzenat have been reviewers for the 10th “Language Resources and Evaluation Conference (LREC)”, 2016.

10.1.3. Journal

10.1.3.1. Member of editorial boards

- Jérôme Euzenat is member of the editorial board of *Journal of web semantics* (area editor), *Journal on data semantics* and the *Semantic web journal*.

10.1.3.2. Reviewer - Reviewing activities

- Jérôme David has been reviewer for the *Semantic web journal*.
- Jérôme Euzenat has been reviewer for *Applied ontologies*.
- Jérôme Euzenat has been reviewer for the *ACM transactions on the Web*.

10.1.4. Scientific expertise

- Jérôme Euzenat has been evaluator for European projects (FP7, H5: Smart cities and sustainability communication networks, content and technology), 2015

10.1.5. Research administration

Jérôme Euzenat has been scientific coordinator of the evaluation seminar for the “Data and knowledge representation and processing” theme of Inria, 2015.

10.1.6. Seminars

- Jérôme Euzenat, Data interlinking with link keys, Seminar Tsinghua university, Beijing (CN), 08/04/2015 (oral presentation)
- Jérôme David and Jérôme Euzenat, A link key approach to data interlinking, Seminar Xerox Europe Research centre, Meylan (FR), 23/04/2015 (oral presentation)

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

10.2.1.1. Responsibilities

- Jérôme David has been coordinator, with Benoît Lemaire, of option “Web, Informatique et Connaissance” of Master “Ingénierie de la Cognition, de la Création, et des Apprentissages” (UPMF, UJF & INPG);
- Manuel Atencia and Jérôme David are coordinators of option “Web, Informatique et Connaissance” of Master “Ingénierie de la Cognition, de la Création, et des Apprentissages” (UPMF, UJF & INPG);
- Jérôme Euzenat is, with Éric Gaussier, coordinator of the “AI and the web” option of the M2R in computer science and applied mathematics (UJF & INPG).

10.2.1.2. Courses

Licence: Jérôme David, Algorithmique et programmation par objets, 90h, L2 MASS, UPMF, France

Licence: Manuel Atencia, Introduction aux technologies du Web, 60h, L3 MASS, UPMF, France

Licence: Jérôme David, JavaEE, 25h, Licence Pro. SIL, UPMF, France

Licence: Jérôme David, Introduction à Python, Licence ESSIG, 24h, UPMF, France

Master: Jérôme David, Programmation Java 2, 30h, M1 IC2A, UPMF, France

Master: Jérôme David, Documents XML, 30h, M1 IC2A, UPMF, France

Master: Manuel Atencia, Langages et technologies du Web 1, 30h, M1 IC2A, UPMF, France

Master: Manuel Atencia, Langages et technologies du Web 2, 30h, M1 IC2A, UPMF, France

Master: Jérôme David, JavaEE, 30h, M2 IC2A, UPMF, France

Master: Jérôme David, Développement Web Mobile, 30h, M2 IC2A, UPMF, France

Master: Manuel Atencia, Web Sémantique, 30h, M2 IC2A, UPMF, France

Master: Jérôme Euzenat, Semantic web: from XML to OWL, 22heqTD, M2R, Université Joseph Fourier & INPG, France

Post-graduate level: Jérôme Euzenat, “Data interlinking”, 3h+3h, Tutorial+Practical, “linked data for smart cities” summer school, Cercedilla (ES), 2015

Post-graduate level: Jérôme Euzenat, “Data interlinking”, 1h, Tutorial, Web intelligence summer school, Saint-Étienne (FR), 2015

Post-graduate level: Jérôme Euzenat, “Dynamic interoperability: from ontology matching to cultural knowledge evolution”, 3h, Tutorial, ESSENCE summer school, Edinburgh (UK), 2015

Post-graduate level: Manuel Atencia, Jérôme David, Philippe Genoud, “What is this thing called linked data?”, 6h, Tutorial, ACM Document engineering symposium, Lausanne (CH), 2015

10.2.2. Supervision

- PhD in progress: Tatiana Lesnikova, Cross-lingual RDF data interlinking, 1/10/2012, supervisors: Jérôme Euzenat and Jérôme David
- PhD in progress: Armen Inants, Ontology alignment algebra, 1/12/2012, supervisor: Jérôme Euzenat
- PhD in progress: Adam Sanchez Ayte, Ontology alignment and data interlinking evolution on the web of data, 1/12/2013, supervisor: Jérôme Euzenat and Jérôme David

10.2.3. Juries

- Jérôme Euzenat has reviewed the PhD dissertation of Amélie Gyrard, Designing cross-domain semantic web of things applications, Telecom ParisTech, 24/04/2015, supervisors: Christian Bonnet and Karima Boudaoud
- Jérôme Euzenat has been external examiner of the PhD dissertation of Mathew Joseph, Query answering over contextualized RDF/OWL knowledge with expressive bridge rules: decidable classes, Università degli studi di Trento, 29/04/2015, supervisor: Luciano Serafini
- Jérôme Euzenat has been external examiner of the PhD dissertation of Esther Lozano Hontecillas, A semantic approach to problem-based learning with conceptual models, Universidad Politécnica de Madrid, 30/06/2015, supervisors: Asunción Gómez-Pérez and Jorge Gracia
- Jérôme Euzenat has reviewed the PhD dissertation of Benoit Christophe, Semantic-based middleware to support nomadic users in IoT-enabled smart environments, Université Pierre et Marie Curie, 07/09/2015, through VAE
- Jérôme Euzenat has been external examiner of the PhD dissertation of José Angel Ramos Gargantilla, Descubrimiento de mappings en recursos geoespaciales, Universidad Politécnica de Madrid, 22/09/2015, supervisors: Asunción Gómez-Pérez and Mariano Fernandez Lopez
- Jérôme Euzenat has reviewed the HDR dissertation of Freddy Lécué, Semantics for scalable machine reasoning in the web of data, Université de Nice-Sophia Antipolis, 06/11/2015

10.3. Popularization

- Jérôme Euzenat gave a talk to the Grilog networking business meeting “Big data” on “Publication et exploitation des données avec les technologies sémantiques (Publishing and exploiting data with semantic technologies)”, Meylan (FR), 2015-04-28.

GRAPHIK Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

Madalina Croitoru co-organized the workshop GKR@IJCAI (international workshop on graph structures for knowledge representation and reasoning) co-located with IJCAI 2015. This is the 4th edition of this workshop series, that she initiated for IJCAI 2011. <https://www.lirmm.fr/~croitoru/GKR/>

Marie-Laure Mugnier co-organized the workshop “Ontologies and logic programming for query answering” co-located with IJCAI 2015. <http://iaoa.org/jowo/calls/>

10.1.2. Scientific events selection

We are regularly members of the program committees of the main generalist conferences in AI (i.e., IJCAI, AAAI, ECAI) and more specialized conferences and workshops (KR, the main conference in knowledge representation and reasoning, RR — Web reasoning and Rule Systems, SUM — International Conference on Scalable Uncertainty Management, COMMA — International Conference on Computational Models of Argument, Metadata and Semantics Research Conference, etc.)

In 2015, those conferences were:

- AAAI 2015: 1 senior PC member (Marie-Laure Mugnier) and 2 PC members (Federico Ulliana, Jean-François Baget)
- IJCAI 2015: 4 PC members (Jean-François Baget, Madalina Croitoru, Marie-Laure Mugnier, Federico Ulliana)
- KR 2016 (Marie-Laure Mugnier)
- RR 2015: 1 PC member (Marie-Laure Mugnier)
- SUM 2015 (Madalina Croitoru)
- MTSR 2015, special track on Metadata and Semantics for Agriculture, Food & Environment [AgroSEM'15] (Patrice Buche)
- PRIMA 2015 (Pierre Bisquert)

10.1.3. Journal

Madalina Croitoru is member of the editorial board of the International Journal of Conceptual Structures and Smart Applications (IJCSSA).

10.1.4. Invited talks

- 8th International colloquium GeCSO Gestion des connaissances dans la société et les organisations (GECSO 2015), Bordeaux, June 2015, ‘Intégration de modèles en ingénierie des connaissances aide à la décision pour le choix d’emballages alimentaires’, Patrice Buche
- Seminar INRA DID’IT (Diet impact and determinants), May 2015, Intégration de modèles en ingénierie des connaissances aide à la décision pour le choix d’emballages alimentaires, Patrice Buche
- Building the next generation of sustainable food packaging from the conversion of food wastes: Decision Support System. Milano Expo 2015 – October 2015, Patrice Buche
- Environmental Life Cycle Analysis using knowledge engineering based approach for assessing sustainability of biorefinery systems, GDR CNRS-INRA Symbiose, November 2015, Patrice Buche

- Open data: éléments de contexte, enjeux, initiatives, Séminaire d'automne du département INRA CEPIA, October 2015, Patrice Buche

10.1.5. Leadership within the scientific community

- **Scientific animation at INRA:** Patrice Buche co-animates the national network INRA IN-OVIVE, devoted to methods and tools for big data management in life sciences, agronomy and food processing <http://www6.inra.fr/reseau-in-ovive>
In particular, he co-organized three editions of the IN-OVIVE workshop dedicated to heterogeneous data sources integration in life sciences during the French conference IC (ingénierie des connaissances) in 2013, 2014 and 2015 https://colloque.inra.fr/in_ovive_2015
Patrice Buche is also co-animator (2012-2016) at the national level of the INRA CATI ICAT “Ingénierie des connaissances et analyse textuelle” <http://www6.inra.fr/cati-icat/Presentation>. Moreover, he co-animates the regional seminar MIAD (Mathematical models for decision making in environment, agronomy and processing of agricultural resources) <http://umr-iate.cirad.fr/seminaires/aide-a-la-decision>
- **Scientific animation at the national level:** Marie-Laure Mugnier is member of the organizing committee of the workshop “Journées d’Intelligence Artificielle Fondamentale” (JIAF, the annual meeting of the French community on the foundations of AI) http://icube-web.unistra.fr/gdri3/index.php/Th%C3%A8me_1:_Intelligence_Artificielle_Fondamentale
We will locally organize the next JIAF, which will be held in Montpellier in June 2016, in conjunction with the JFPC, the Journées de Programmation par Contraintes (JFPC), the annual workshop of French researchers on constraint programming. https://www.supagro.fr/jfpc_jiaf_2016/

10.1.6. Scientific expertise

Rallou Thomopoulos and Madalina Croitoru are members of the management committee of the European cooperation network (COST) "Mathematical and Computer Science Methods for Food Science and Industry", accepted in Nov. 2105. http://www.cost.eu/COST_Actions/ca/CA15118http://www.cost.eu/COST_Actions/ca/CA15118?management

Scientific advisory board of the Food and Bioproducts department (CEPIA) at INRA (Marie-Laure Mugnier, since 2011).

Scientific advisory board of **ABES** (National Bibliographic Agency for Universities), Michel Chein (since 2010)

Participation to the Wheat Data initiative of Research Data Alliance (Patrice Buche from June 2015), whose objective is to propose recommendations for wheat and other cereals data
<http://ist.blogs.inra.fr/wdi/>

Punctual expertise tasks: Experts for ANR, INRA and Inria.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

The next table details the number of lecture hours as well as the number of module responsibilities for each team member.

Name	Position	2014/15	Cursus (*)	Module Resp. (per year)
J.-F. Baget	Research Scientist	40	M (UM2)	1
M. Croitoru	Assistant Prof.	198	L2	2
M. Bienvenu	Research Scientist	15	M(UM2)	no
J. Fortin	Assistant Prof.	230	Polytech	2
M. Leclère	Assistant Prof.	196	L and M (UM2)	2
M. -L. Mugnier	Professor	192	L and M (UM2)	3
A. Arioua	PhD	12	L (UM2)	no
F. Ulliana	Assistant Prof.	192	L and M (UM2)	3
N. Patel	PhD	64	L(UM2)	no

(*) L =Licence, M = Master (M1 = first year, M2 = second year), UM2 = Univ. Montpellier 2 (Sciences), IUT = Institute of Technology of UM2 (Licence Cursus), Polytech = Engineering School of UM2, UM3 = Univ. Montpellier 3 (Art and Humanities)

The courses organized by team members are mainly in Logics (in Licence), Artificial Intelligence, Knowledge Representation, Knowledge Engineering, Social and Semantic Web. We are also responsible of modules in Web Technologies (Professional L at IUT).

We have some specific responsibilities in the Computer Science Licence and Master:

- Michel Leclère (Faculty): since Sept. 2015, he is deputy manager of the Computer Science teaching Department from the Science Faculty. Moreover, since 2011, he manages the program “Data, Knowledge and Natural Language Processing” (DECOL), part of the Master of Computer Science (about 30 students).
- Marie-Laure Mugnier (Faculty): since 2011, she is (co)-director of the Master in Computer Science, which gathers 6 programs. She also led the Master project for the next four years (LMD4, from 2015/16 to 2018/2019).
- Madalina Croitoru (IUT): since Sept. 2014, she manages the “année spéciale” (about 25 students).

10.2.2. Supervision

The PhDs in progress are:

Fabien Garreau (ANR ASPIQ grant), Algorithms for stable model semantics and existential rules (ANR ASPIQ, with Univ. of Angers), started Sept. 2012, supervised by Igor Stephan, Jean-François Baget and Laurent Garcia.

Swan Rocher (ANR Qualinca grant), Reasoning with inconsistent knowledge bases in presence of existential rules (ANR Qualinca), started Sept. 2013, supervised by Marie-Laure Mugnier and Jean-François Baget.

Namrata Patel (Univ. Montpellier grant), Preference Handling in Decision Problems (ministry grant), started Oct. 2013, supervised by Souhila Kaci and Roland Ducournau.

Abdallah Arioua (ANR Dur-Dur& INRA Grant), Argumentation Theory and its Application to Knowledge-based Systems, started Nov. 2013, supervised by Patrice Buche, Madalina Croitoru and Jérôme Fortin.

Stathis Delivorias (Univ. Montpellier grant), Module extraction in existential rule knowledge bases, started Oct. 2015, supervised by Federico Ulliana, Michel Leclère and Marie-Laure Mugnier.

Abdelraouf Hecham (Averroes grant), Cognitive biases in argumentation, started Oct. 2015, supervised by Madalina Croitoru.

10.2.3. Juries

HDR reviewer - Freddy Lécué - Scalable Machine Reasoning in the Web of Data - Nov. 2015 - University of Nice (Marie-Laure Mugnier)

PhD jury co-director - Lilia Berrahou - Extraction d'arguments de relations n-aires dans les textes guidée par une Ressource Termino-Ontologique de domaine, application aux domaines de la bioraffinerie des ligno-celluloses et des emballages alimentaires - Sept. 2015 - University of Montpellier (Patrice Buche).

PhD jury member - Zied Bouraroui - Inconsistency and uncertainty handling in lightweight description logics - June 2015 - University of Lens (Marie-Laure Mugnier)

President of a recruitment jury (comité de sélection) for a professorship position at the University of Montpellier - Spring 2015 (Marie-Laure Mugnier)

President of an evaluation jury for INRA IT project managers, Oct. 2015, Patrice Buche.

LINKS Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events selection

10.1.1.1. Member of conference program committees

J. Niehren was member of the program committees of LPAR (International Conference on Logic Programming and Automatic Reasoning) 2016, LATA (International Conference on Language and Automata Theory and Applications) 2015, and WPTE (Rewriting Techniques for Program Transformations and Evaluation) 2015.

S. Tison is member of the program committees of FSCD (First International Conference on Formal Structures for Computation and Deduction) 2016, and CIAA (International Conference Implementation and Application of Automata) 2015.

S. Staworko is member of the program committees of PODS (ACM Symposium on Principles of Database Systems) 2016 and BICOD (British International Conference on Databases) 2015.

I. Boneva was member of program committee of EDBT (International Conference on Extending Database Technology) 2016 Vision Track.

P. Bourhis was member of program committee of RuleML (International Web Rule Symposium) 2015 and BDA (Journées Bases de données avancées) 2015

A. Bonifati was member of the program committees of VLDB (Very large Database Conference) 2015, ICDT (International Conference on Database Theory) 2015 and ICDE (International Conference of Data Engineering) 2015.

10.1.2. Journal

10.1.2.1. Member of the editorial boards

S. Tison is in the editorial committee of RAIRO-ITA (Theoretical Informatics and Applications).

J. Niehren is in the editorial board of Fundamenta Informaticae.

10.1.2.2. Reviewer - Reviewing activities

To many to be enumerated

10.1.3. Leadership within the scientific community

S. Tison is member of the "Comité National de la Recherche Scientifique (CoNRS)" (Section 6).

I. Boneva is a member of the Data Shapes Working Group of the W3C which the mission is to produce a language for defining structural constraints on RDF graphs. <http://www.w3.org/2014/data-shapes/charter>

10.1.4. Research administration

S. Tison has been an elected member of the Administrative committee of University of Lille 1 until October 2015. She is an elected member of the academic council of "ComUE Lille Nord de France" since November 2015.

S. Tison is a vice president of the University of Lille 1 since October 2015, where she is responsible for industrial partnerships, innovation, and valorisation.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

License: A. Bonifati, Introduction to Databases, 54h, L3, Université Lille 1, France

Master (Mocad): P. Bourhis Information extraction, 18h, M2, Université Lille 1, France

Master (Mocad): A. Bonifati Information extraction, 9h, M2, Université Lille 1, France

Master (Mocad): J. Niehren Information extraction, 9h, M2, Université Lille 1, France

Master : S. Tison Advanced algorithms and complexity, M1, 57h, Université Lille 1, France

Master : S. Tison, Fouille de données, M1, 30h, Université Lille 1, France

Master: A. Lemay, XML Technologies, 16h, M2, Université Lille 3, France

DUT : I. Boneva, 100h, Université Lille 1, France

A. Bonifati was the co-responsible of the Master MOCAD of the University of Lille1.

A. Lemay is pedagogical responsible for Computer Science and numeric correspondent for UFR LEA Lille 3.

10.2.2. Supervision

PhD defended : R.CIUCANU, cross-model queries and schema mappings: evaluation and learning. Since Sept. 2012. Supervised by Bonifati.

PhD in progress : T. SEBASTIAN, Streaming algorithms for XPath. Since January 2011. Supervised by Niehren.

PhD in progress: A. BOIRET, Top-down tree transformations with look-ahead: foundations and learning. Since Sept. 2011. Supervised by Niehren and Lemay.

PhD in progress: D. Gallois started his PhD project on Recursive Queries under the supervision of Bourhis and Tison.

10.2.3. Juries

S. Tison was reviewer for the HDR of Sylvain Salvati at the University of Bordeaux, director of the HDR of Slawek Staworko at the University of Lille 1, and member of the HdR committee of Pierre-Alain Reynier from the University of Marseille. She was also a member of the PhD committee for Nadime Francis at the ENS Cachan.

10.2.4. Selection Committees

S. Tison was member of the selection committees for 2 professorships at University of Paris-Diderot, 1 assistant professorship at the Université Artois, and 2 assistant professorships at the University of Lille 3.

J. Niehren was member of the section committee for a professorship at the University of Bordeaux 1.

I. Boneva was member of the section committee for an assistant professorship at the University of Lens.

A. Lemay was member of the section committee for 2 assistant professorships at the University of Lille 3.

10.3. Popularization

Popularization on associate team Lille - Oxford: [Popularization on associate team Lille - Oxford](http://www.inria.fr/centre/lille/actualites/lille-et-oxford-une-double-expertise-au-service-de-la-donnee) par Inria à <http://www.inria.fr/centre/lille/actualites/lille-et-oxford-une-double-expertise-au-service-de-la-donnee>.

Popularization on awarded ICJAI paper of P. Bourhis on "Reasonable Highly Expressive Query Languages". Une avancée en équivalence de requêtes pour interroger les données sur le web distinguée à IJCAI <http://www.cnrs.fr/ins2i/spip.php?article1465>

MAGNET Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. Member of the organizing committees

MIKAELA KELLER, GÉRAUD LE FALHER and PAULINE WAUQUIER were members of the organizing committee of CAp 2015.

10.1.2. Scientific events selection

10.1.2.1. General chair, scientific chair

PASCAL DENIS served as an Area Chair (Discourse, Coreference, Pragmatics) for ACL 2015.

10.1.2.2. Chair of conference program committees

MARC TOMMASI was the program chair of CAp 2015.

10.1.2.3. Member of the conference program committees

PASCAL DENIS was member of the program committees of EMNLP 2015 and NAACL 2015.

PASCAL DENIS, RÉMI GILLERON, MIKAELA KELLER and MARC TOMMASI were members of the program committee of CAp 2015.

PASCAL DENIS and MIKAELA KELLER were members of the program committee of IJCAI 2015.

MIKAELA KELLER was member of the program committee of ICLR 2016.

MIKAELA KELLER and MARC TOMMASI were members of the program committee of NIPS 2015.

JAN RAMON was member of the program committee of BNAIC 2015.

JAN RAMON and MARC TOMMASI were members of the program committee of ICML 2015.

MARC TOMMASI was member of the program committee of CRI 2015.

FABIO VITALE was member of the program committees of COLT 2015 and WWW 2016.

10.1.2.4. Other

PASCAL DENIS is the program co-chair of the Polaris Colloquium.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

JAN RAMON is member of the editorial boards of Machine Learning Journal (MLJ) and Data Mining and Knowledge Discovery (DMKD).

10.1.3.2. Reviewer - Reviewing activities

AURÉLIEN BELLET was reviewer for IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), IEEE Transactions on Cybernetics (TCYB) and Signal Processing (SIGPRO).

MARC TOMMASI was reviewer for Computer Communications (COMCOM).

FABIO VITALE was reviewer for the European Journal of Operational Research (EJOR).

10.1.4. Invited talks

MIKAELA KELLER was invited to give a talk at "Journée scientifique sur gestion de la connaissance à l'aide des Méthodes formelles pour la prévision des crises en épilepsie" (CRAN, Nancy).

JAN RAMON was invited to give a talk at the International Conference on Concept Lattices and their Applications (CLA 2015).

MARC TOMMASI was invited to give a talk at Data, Learning and Inference (DALI 2015): Networks – Processes and Causality.

10.1.5. Scientific expertise

PASCAL DENIS was member of the PhD Award Committee of ATALA (French association for NLP).

RÉMI GILLERON was member of the AERES evaluation committee of the LITIS Computer Science research laboratory (Rouen, France).

RÉMI GILLERON was also head of the selection committee for PhD and postdoctoral researchers at Inria Lille.

RÉMI GILLERON, MIKAELA KELLER and MARC TOMMASI were members of evaluation committees for the French Research Agency (ANR).

MARC TOMMASI was president of the jury for the recruitment of Junior Research Scientists (CR1/CR2) at Inria Lille.

FABIEN TORRE is elected for "CNU section 27 (informatique)" since Oct 2011 (reelected in Oct 2015) and is also member of the bureau since Nov 2015.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

University courses

Licence Informatique: DAVID CHATEL, Initiation à l'informatique, 45.5h, L1, Université de Lille, France

Master MOCAD: PASCAL DENIS, Apprentissage artificiel et aide à la décision, 37.5h, M2, Université de Lille, France

Master MIASHS: RÉMI GILLERON, NoSQL databases, 24h, M1, Université de Lille, France

Master MIASHS: RÉMI GILLERON, Programming in R, 24h, M1, Université de Lille, France

Master MIASHS: RÉMI GILLERON, Search Engine Optimization, 24h, M2, Université de Lille, France

Licence SID: RÉMI GILLERON, Information Digital Representation, 24h, L2, Université de Lille, France

Licence MIASHS: RÉMI GILLERON, Data Processing with Spreadsheet Program, 24h, L1, Université de Lille, France

Licence: MIKAELA KELLER, C2i, 25h, L2, Université de Lille, France

Licence MIASHS: MIKAELA KELLER, Information digital representation, 42h, L1, Université de Lille, France

Licence Sociologie: MIKAELA KELLER, Programming and algorithms, 28h, L2, Université de Lille, France

Licence Digital Humanities: MIKAELA KELLER, Information digital representation, 24h, L2, Université de Lille, France

Licence MIASHS: MARC TOMMASI, Réseaux, 64h, L1, Université de Lille, France

Licence MIASHS: MARC TOMMASI, Programmation client, 24h, L2, Université de Lille, France

Licence: MARC TOMMASI, C2i, 25h, L2, Université de Lille, France

Licence: MARC TOMMASI, Culture numérique, 30h, L2, Université de Lille, France.
Online courses for all students in Lille 3 university L1/L2/L3.

Master Information Documentation: FABIEN TORRE, Langages statiques du web, 37h, M1, Université de Lille, France

Master Information Documentation: FABIEN TORRE, Algorithmique et programmation PHP pour le web, 75h, M1, Université de Lille, France

Master SdL: FABIEN TORRE, Algorithmique et programmation pour l'extraction d'information, 55h, M2, Université de Lille, France

Master Information Documentation: FABIEN TORRE, Javascript langage dynamique du web, 38h, M2, Université de Lille, France

Master MIASHS: FABIEN TORRE, Informatique pour le référencement, 12h, M2, Université de Lille, France

Licence MIASHS: FABIO VITALE, Introduction à l'algorithmique, 66h, L2, Université de Lille, France

Licence Sociologie: FABIO VITALE, Algorithmique des graphes, 28h, L3, Université de Lille, France

Licence SID: FABIO VITALE, Information Coding, 24h, L1, Université de Lille, France

Master MIASHS: FABIO VITALE, Unsupervised Classification, 30h, M1, Université de Lille, France

Licence MIASHS: FABIO VITALE, Unsupervised Classification, 28h, L3, Université de Lille, France

Invited lectures

Séminaire de rentrée: MARC TOMMASI, ENS Cachan, France

Course on Graph-based Machine Learning: MARC TOMMASI, University of Yaoundé, Cameroon.

Administration

MARC TOMMASI is a council member of the UFR MIME.

10.2.2. Supervision

Master: MATHIEU DEHOUCK, Graph-based Semi-Supervised Learning for Dependency Parsing, Université de Lille, Aug 2015, PASCAL DENIS and MARC TOMMASI

PhD: CHLOÉ BRAUD, Discourse Relation Identification from Labeled and Unlabeled Data, Université Paris-Diderot, Dec 2015, PASCAL DENIS (co-supervision with Laurence Danlos, Université Paris-Diderot)

PhD: EMMANUEL LASSALLE, Structured Learning with Latent Trees: a Joint Approach to Coreference Resolution, Université Paris-Diderot, May 2015, PASCAL DENIS (co-supervision with Laurence Danlos, Université Paris-Diderot)

PhD: THOMAS RICATTE, Hypernode graphs for learning from binary relations between sets of objects, Université de Lille, Jan 2015, RÉMI GILLERON

PhD in progress: DAVID CHATEL, Supervised Spectral Clustering and Information Diffusion in Graphs of Texts, since Sep 2012, PASCAL DENIS and MARC TOMMASI

PhD in progress: MATHIEU DEHOUCK, Graph-based Learning for Multi-lingual and Multi-domain Dependency Parsing, since Oct 2015, PASCAL DENIS and MARC TOMMASI

PhD in progress: GÉRAUD LE FALHER, Machine Learning in Signed Graphs, since Oct 2014, MARC TOMMASI, FABIO VITALE and CLAUDIO GENTILE (Università dell'Insubria, Italy)

PhD in progress: PAULINE WAUQUIER, Recommendation in Information Networks, since Dec 2013, MARC TOMMASI and MIKAELA KELLER

10.2.3. Juries

PASCAL DENIS was member of the PhD committee of Juliette Conrath (IRIT, Université Paul Sabatier) in Toulouse.

RÉMI GILLERON was member of the following committees: PhD committee of Marta Soare (Lille), Habilitation committee of Jérémie Mary (Lille), head of the selection committee for assistant professor (Lille).

MIKAELA KELLER was member of the following selection committees: assistant professor in Université de Lille 1, in Université de Lille 3 and at INSA Rouen.

MARC TOMMASI was member of the following committees: selection committee for assistant professor at UPMC (Paris 6), PhD committee (and reviewer) of Nadia Ouali Sebti (LITIS, Rouen), PhD committee of Fragkiskos D. Malliaros (École polytechnique, Paris) and PhD committee of Thomas Ricatte (Lille).

10.3. Popularization

MIKAELA KELLER was involved in the Fête de la Science as a "chercheur itinérant".

MARC TOMMASI was co-author of the article "L'apprentissage automatique : le diable n'est pas dans l'algorithme" in the blog Binaire of the newspaper Le Monde.

OAK Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events organisation

9.1.1.1. General chair, scientific chair

I. Manolescu has been a co-chair of the Digicosme Spring School in Databases (May 2015) <http://labex-digicosme.fr/SpringSchool+2015+%28en%29>.

9.1.2. Scientific events selection

9.1.2.1. Member of the conference program committees

- I. Manolescu has been a Review Board member of PVLDB 2015 (Experiment and Analysis track), and a PC member for PODS 2015, SIGMOD 2015 (Demonstrations track), BICOD 2015, the Data Engineering and the Semantic Web (DESWeb) workshop 2015 as well as BDA (the French database conference) 2015

9.1.3. Journal

9.1.3.1. Member of the editorial boards

- I. Manolescu has been an associate editor for the ACM Transactions on the Web since september 2015.
- I. Manolescu is a member of the editorial board of the Springer "Data-Centric Systems and Applications" book series

9.1.4. Invited talks

- I. Manolescu gave two keynote talks: on efficient query answering techniques for RDF at the SEBD 2015 conference [4], and on RDF summarization at DESWeb workshop in conjunction with ICDE 2015 [5].

9.1.5. Leadership within the scientific community

N. Bidoit and I. Manolescu are members of the BDA steering committee.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Licence : B. Groz, Introduction to Databases, 28 ETD, L2, Univ. Paris-Sud, France

Licence : B. Groz, Databases, 71 ETD, L3 (and M1), Univ. Paris-Sud, France

Master : B. Groz, Data Warehouses and Olap, 65 ETD, M1 MIAGE, Univ. Paris-Sud, France

Master : I. Manolescu, Architectures for Massively Distributed Data Management, 28 ETD, M2R IAC, Univ. Paris-Sud, France

9.2.2. Supervision

PhD: Katarina Tzompanaki: "Foundations and Algorithms to Compute the Provenance of Missing Data", defended in December 2015, Melanie Herschel and Nicole Bidoit.

PhD: Stamatis Zampetakis: "Massively Parallel Algorithms for Semantic Web Data", defended in September 2015, François Goasdoué and Ioana Manolescu.

PhD in progress : Raphael Bonaque: “Structured, Social and Semantic Search”, since October 2013, Bogdan Cautis, François Goasdoué, and Ioana Manolescu.

PhD in progress : Damien Bursztyn: “Scalable Techniques for Web Data Management”, since January 2014, François Goasdoué and Ioana Manolescu.

PhD in progress : Sejla Čebirić: “CloudSelect: Data Mobility Within, Across and Outside Clouds”, since September 2015, A.Bounfour, F. Goasdoué and I. Manolescu.

PhD in progress : Paul Lagrée: “Adaptive Learning for Intelligent Crowdsourcing and Information Access”, since October 2014, Bogdan Cautis.

9.2.3. *Juries*

Nicole Bidoit has been a member of the PhD committee of Katarina Tzompanaki.

François Goasdoué has been a member of the PhD committee of Stamatis Zampetakis.

Ioana Manolescu has been a member of the PhD committee of Stamatis Zampetakis, and of the HDR committee of Sarah Cohen-Boulakia (Université de Paris Sud).

9.3. Popularization

- I. Manolescu has given a conférence “Big Data and the Internet” in January in the *UniverCité Ouverte* conference series organized by the city of Gif sur Yvette for the general public .
- R. Bonaque, D. Bursztyn, S. Cebiric and I. Manolescu have presented a game based on RDF graphs and social networks as part of Fête de la Science in Inria Saclay, in October.
- I. Manolescu has presented a vision of data management techniques for journalistic fact-checking at the congress of the french Association of the Information Press Journalists (Association des Journalistes de la Presse d’Information) in October. The same topic has lead to articles in the general press, in Ouest France (<http://www.ouest-france.fr/leditiondusoir/data/569/reader/reader.html#!preferred/1/package/569/pub/570/page/8>), the canadian Le Devoir (<http://www.ledevoir.com/politique/canada/450937/sur-la-piste-du-mensonge>), Le Monde (<http://data.blog.lemonde.fr/2015/10/23/le-fact-checking-peut-il-sautomatiser/>), Rue89 (<http://rue89.nouvelobs.com/2015/10/26/algorithmes-antimensonge-fin-bobards-politique-261827>), as well as in the Journal du CNRS (<https://lejournel.cnrs.fr/articles/un-logiciel-qui-decrypte-la-politique>) and Inria’s national Web site (<http://www.inria.fr/centre/saclay/actualites/un-logiciel-de-fact-checking-pour-comprendre-le-monde-qui-nous-entoure>).
- I. Manolescu has presented a database management vision for Data Science in the Big Data Business Convention in November, attended by 600 participants among which half were academics and half from the industry. S. Zampetakis has presented CliqueSquare at the Business Convention.

ORPAILLEUR Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific Events Organization, General Chairs, Scientific Chairs

- “CCC”. Emmanuel Nauer co-organized the “Computer Cooking Contest” at ICCBR 2015 which held this year in Bad Homburg (Germany) (see <http://ccc2015.loria.fr/>).
- “FCA4AI 2015”. Amedeo Napoli organized with Sergei O. Kuznetsov (HSE Moscow) and Sebastian Rudolph (TU Dresden) the fourth workshop FCA4AI (“What can do FCA for Artificial Intelligence”) which was associated with the IJCAI Conference in Buenos Aires (Argentina, July 2015, see <http://www.fca4ai.hse.ru/2015> and <http://ceur-ws.org/Vol-1430>).

9.1.1.1. Scientific Animation

- The scientific animation in the Orpailleur team is based on the Team Seminar which is called the “Malotec” seminar (<http://malotec.loria.fr/?p=1>). The Malotec seminar is held in general twice a month and is used either for general presentations of members of the team or for invited presentations of external researchers. members of the team are also aware of the BINGO seminar which is organized by the Capsid Team (composed of former members of the Orpailleur Team), whose topics are related to biology, chemistry, and medicine. Actually, both seminars are active and are useful instruments for researchers in the team.
- Members of the Orpailleur team are all involved, as members or as head persons, in various national research groups.
- The members of the Orpailleur team are involved in the organization of conferences and workshops, as members of conference program committees (ECAI, ECML-PKDD, ICCBR, ICDM, ICFCA, IJCAI, KDD...), as members of editorial boards, and finally in the organization of journal special issues.

9.2. Teaching - Supervision - Juries

- The members of the Orpailleur team are involved in teaching at all levels of teaching, mainly at University of Lorraine. Actually, most of the members of the Orpailleur team are employed on university positions.
- The members of the Orpailleur team are also involved in student supervision, at all university levels, from under-graduate until post-graduate students.
- Finally, the members of the Orpailleur team are involved in HDR and thesis defenses, being thesis referees or thesis committee members.

SMIS Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events organization

9.1.1.1. General chair, scientific chair

- Philippe Pucheral: Co-founder of the bi-annual French Summer School 'Masses de Données Distribuées' and co-organizer of this school in 2016
- Benjamin Nguyen: Organizer and chair of 'Atelier sur la Protection de la Vie Privée' (APVP) in 2015

9.1.2. Scientific events selection

9.1.2.1. Member of the conference program committees

- Philippe Pucheral: EDBT'15, MOBIWIS'15, DATA'15, BDA'15
- Luc Bouganim: EDBT'15, EDBT'16
- Nicolas Ancaux: BDA'15, Int. Conference on Sustainable Energy and Environmental Engineering (SEEE'15)
- Benjamin Nguyen: BDA 2015, ACOMP'15, ECML-PKDD'15, EDA 2015
- Iulian Sandu Popa: MOBILWARE 2015, IEEE Mobile Cloud 2016, APVP 2015

9.1.2.2. Reviewer

- Iulian Sandu Popa: EDBT'15, ACM SIGSPATIAL'15

9.1.3. Journal

9.1.3.1. Member of the editorial boards

- Nicolas Ancaux: Area Editor of the VLDB Journal (since 2015)
- Benjamin Nguyen: Member of the editorial committee of TSI (Techniques et Sciences Informatiques), French Journal, Eds. Lavoisier since 2012

9.1.3.2. Reviewer - Reviewing activities

- Iulian Sandu Popa: ACM Transactions on Storage 2015

9.1.4. Invited talks

- Invited tutorial: Towards an Era of Trust in Personal Data Management, Tutorial at ADBIS'15 conference, N. Ancaux, B. Nguyen, I.Sandu Popa, 2015
- Invited talk: Gestion de données personnelles respectueuse de la vie privée. "1/2 heure de science", N. Ancaux, June 2015
- Invited talk: Gestion de données embarquées dans des calculateurs sécurisés, une solution pour la protection des données personnelles ?, Journée ASF, COMPAS conference, L. Bouganim, June 2015
- Invited talks and demonstrations: PlugDB: towards the Secure Personal Cloud. Smart City & Mobility Innovations, Cities, IoT and Analytics mobility, RII, San Francisco, N. Ancaux, 2015

9.1.5. Research administration

- Philippe Pucheral: Member of the HDR committee of the STV doctoral school (UVSQ) since 2014

- Philippe Pucheral: Philippe Pucheral: Member of the steering committee of the ED STIC doctoral school of University Paris-Saclay, 'Data, Knowledge and Interactions' committee (about 250 PhD students) since 2014
- Luc Bouganim: Co-president of the Inria 'Emplois Scientifiques' commission (includes PhD grant, Post-Doc and Délégation attributions), 2015
- Nicolas Ancaux: Co-director of the 'Privacy and digital identity' WG at Digital Society Institute (DSI), since January 2015
- Nicolas Ancaux: President of the 'Comité de Suivi Doctoral' (CSD) at Inria Paris-Rocquencourt, since 2015
- Nicolas Ancaux: Member of Commission de Developpement Technologique (CDT) at Inria Rocquencourt since 2012
- Benjamin Nguyen: Director of Digital Affairs (INSA CVL)
- Benjamin Nguyen: Member of the Executive Committee of INSA CVL

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Master : Philippe Pucheral, responsible of the DataScale master, courses in M1 and M2, UVSQ, France

Master: Nicolas Ancaux, Courses on database internal mechanisms and database security, 80, in Master1 and Master2 (AFTI, Orsay) and in engineering school (ENSTA ParisTech, Telecom Paristech)

Master : Luc Bouganim, Bases de données, 39, niveau M2, CFA AFTI/UVSQ, France

Master : Luc Bouganim, Systèmes d'information Privacy by Design, 30, niveau M2, ENSIIE, France

Master : Luc Bouganim, Sécurité des bases de données, 15, niveau M2, Télécom ParisTech, France

Licence : Iulian Sandu Popa, Fondaments de l'informatique, 37, niveau L1, UVSQ, France

Licence : Iulian Sandu Popa, Initiation aux bases de données, 66, niveau L2, UVSQ, France

Master : Iulian Sandu Popa, Bases de données relationnelles, 60, niveau M1, UVSQ, France

Master : Iulian Sandu Popa, Mécanismes internes des bases de données, M2, niveau M2, UVSQ, France

Master : Iulian Sandu Popa, Sécurité des bases de données, 9, niveau M2, UVSQ, France

Master : Iulian Sandu Popa, Projet bases de données, 27, niveau M2, UVSQ, France

Master : Benjamin Nguyen, Databases, IA, Security, 192, INSA CVL, France

9.2.2. Supervision

PhD : Cuoc-Quong To, Privacy-Preserving Query Execution using Tamper Resistant Hardware : Design and Performance Considerations, UVSQ, Octobre 2015, Benjamin Nguyen and Philippe Pucheral

PhD : Mathias Bjorling, Operating System Support for High-Performance Solid State Drives, IT University of Copenhagen, August 2015, Philippe Bonnet and Luc Bouganim

PhD : Niv Dayan, Modelling and Managing SSD Write Amplification, IT University of Copenhagen, August 2015, Philippe Bonnet and Luc Bouganim

PhD in progress : Saliha Lallali, A Scalable Search Engine for the Personal Cloud, October 2012, Nicolas Ancaux, Philippe Pucheral, and Iulian Sandu Popa

PhD in progress : Dai Hai Ton That, Efficient Management and Secure Sharing of Mobility Traces, November 2012, Iulian Sandu Popa and Karine Zeitouni (UVSQ)

PhD in progress : Paul Tran Van, Partage de documents sécurisé dans le Cloud Personnel , October 2014, Nicolas Ancaux and Philippe Pucheral

PhD in progress : Chao Chen, A Pivacy-by-Design Middleware for Urban-scale Mobile Crowdsensing, December 2015, Nicolas Ancaux and Valérie Issarny (MiMOVE)

PhD in progress : Axel Michel, Secure Distributed Computations, October 2015, Benjamin Nguyen and Philippe Pucheral

9.2.3. Juries

Philippe Pucheral: member of the PhD jury of Benjamin Billet (UVSQ, 19/03/2015)

Benjamin Nguyen: Reviewer of the PhD of Regina PAIVA MELO MARIN (Supélec Rennes, 7/9/2015)

Benjamin Nguyen: Reviewer of the PhD of Maria Laura NECULA MAAG (Université Pierre et Marie Curie (Paris-VI), 8/4/2015)

Benjamin Nguyen: President of the PhD jury of Mouhamadou Lamine BA (Telecom ParisTech, 30/3/2015)

9.3. Popularization

- Round table: Privacy & Personal Data. Who owns the data? International Conference on Digital Assets, Data Philanthropy, and Public Benefit, CITRIS, Inria, EIT ICT Labs, San Francisco. N. Ancaux, 2015
- General public (large audience magazines, television, videos): Gestion sécurisée de données personnelles. 1024 - Bulletin de la Société Informatique de France, numéro 5, pp. 17-41, N. Ancaux and B. Nguyen, 2015
- Institutions, decision makers and industrials: Présentation du Pôle Vie Privée de l'ISN (DSI), Cabinet de Mme Axelle Lemaire, Secrétaire d'Etat chargée du numérique, Ministère de l'économie, Paris, N. Ancaux and L. Bouganim, May 2015
- Round table: Peut-on être seul maître de son espace numérique ? Comprendre et construire la société numérique. Conférence de l'Institut de la Société Numérique (ISN/DSI), Hôtel Potocki, Paris, N. Ancaux, March 2015
- Round table: P. Pucheral, "Données personnelles, approche interdisciplinaire". Busines Convention on Big Data, Campus HEC, 24-25 Nov. 2015

TYREX Project-Team

8. Dissemination

8.1. Promoting Scientific Activities

8.1.1. Scientific events organisation

8.1.1.1. Member of the organizing committees

C. Roisin is a member of the steering committee of the [ACM Symposium on Document Engineering](#).

8.1.2. Scientific events selection

8.1.2.1. Chair of conference program committees

P. Genevès is the PC Chair of the [ACM Symposium on Document Engineering 2015](#).

8.1.2.2. Member of the conference program committees

P. Genevès is member of the external review committee for the 42nd ACM Symposium on Principles of Programming Languages (POPL'15).

C. Roisin and N. Layaïda are program committee members for the 15th ACM Symposium on Document Engineering (DocEng'15).

8.1.2.3. Reviewer - Reviewing activities

P. Genevès has been a referee for the ACM Transactions on Database Systems (TODS).

P. Genevès has been a referee for the International Colloquium on Automata, Languages and Programming (ICALP).

P. Genevès has been a referee for the International Conference for Human-Computer Interaction (CHI).

P. Genevès has been a referee for the International Conference on Relational and Algebraic Methods in Computer Science (RAMiCS).

N. Gesbert has been a referee for Logical Methods in Computer Science (LMCS).

8.1.3. Research administration

C. Roisin is a board member of the University Pierre Mendes-France, University of Grenoble, in charge of IT systems and TICE.

C. Roisin is president of the disciplinary commission of the University Pierre Mendes-France, University of Grenoble.

N. Layaïda is a permanent member of the pool of experts (project selection committee) of the Minalogic competitive cluster.

N. Layaïda is “référent budget” member of the budget commission of the Inria Grenoble – Rhône-Alpes research center. The role of this commission is to allocate yearly budget (“dotation”) to Inria project teams and services. On a yearly basis, we meet with team and service leaders individually, collect their financial needs and set their budget.

P. Genevès is a permanent member of the committee in charge of hiring research engineers at Inria Grenoble - Rhône-Alpes research center, since 2007.

P. Genevès is co-responsible of the doctoral school of Grenoble University for Computer Science (around 400 PhD students), since July 2015.

8.2. Teaching - Supervision - Juries

8.2.1. Teaching

P. Genevès: 18h (foundations for XML: logics, tree automata and grammars) in the Master of Science in Informatics at Grenoble (Université Joseph Fourier); 3h (tree automata and grammars) in the Master at Ecole Polytechnique Fédérale de Lausanne; 3h (XML Essentials) in the Master at Ecole Nationale Supérieure d'Informatique et de Mathématiques appliquées de Grenoble.

N. Layaïda: 9h of Master lectures on SMIL and Multimedia Principles at Grenoble Universities (Master of Science in Informatics at Grenoble, M2R SIGAL: UE IST, final year).

C. Roisin: 192h at License level on computer network and web technologies; responsible of a L3 degree in web technologies with 50 students per year involved in a dual education system.

C. Roisin is the contact person of the Grenoble Inria Centre for the doctoral schools of University of Grenoble (mainly the MSTII Doctoral School), until June 2015.

N. Gesbert: 223h at License and Master levels in an engineering school (Ensimag), including: 60h on algorithmics and 45h on logic at license level, and 45h on software analysis, conception and validation, 45h on logic and 22h30 on Web application development at master level, plus a few hours of tutoring.

8.2.2. Supervision

PhD defence: N. Guido, On the Static Analysis for SPARQL Queries using Modal Logic, 3rd October 2015, C. Roisin and P. Genevès

PhD in progress: D. Graux, Large scale evaluation of semantic web queries, since November 2013, N. Layaïda and P. Genevès

PhD in progress: A. Abbas, Web query rewriting for heterogeneous data sources, since October 2014, N. Layaïda and P. Genevès

PhD in progress: T. Michel, Mobile Augmented Reality Applications for Smart Cities, since October 2014, P. Genevès, N. Layaïda and H. Fourati

PhD in progress: L. Jachiet, Reasoning with NoSQL Data Flows in Massively Parallel Systems, since October 2014, N. Layaïda and P. Genevès

P. Genevès is co-responsible of a master-level university course entitled “Semantic Web: from XML to OWL”, given each year in the second year of the Master of Science in Informatics at Grenoble.

N. Layaïda is a permanent member of the jury in charge of evaluation harmonisation of the Master of Science in Informatics at Grenoble.

P. Genevès is co-responsible of the doctoral school of Grenoble University for Computer Science (around 400 PhD students), since July 2015.

N. Layaïda is member of the Scientific Board of Advanced Data-mining of the Parsyval Labex.

N. Layaïda is member of the experts pool (selection committee) of the minalogic competitive cluster.

8.3. Popularization

M. Razafimahazo developed a mobile application for the pupils of the école de la paix, Grenoble. The application uses Augmented Reality for a cultural heritage tour of Grenoble City with content produced by the pupils.

M. Razafimahazo animated a brainstorming during CitizenTIC around OpenStreetMap crowd-sourcing: “Les cartes changent la donne autour des parcours accessibles dans l’agglomération Grenobloise”.

N. Layaïda animated several workshops on Open Linked Data for Grenoble City and Grenoble Agglomeration (La métro).

TyReX received two pupils from secondary school, Jeremy Andreoletti and Hugo Kersaudy, for a one week initiation to research. We also hosted several pupils from primary school for one day for a presentation and demos.

WIMMICS Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events organisation

9.1.1.1. General chair, scientific chair

Elena Cabrio: Area chair (Semantics). CLIC-it 2015 (Italian Conf. on Computational Linguistics). Challenge co-chair, Extended Semantic Web Conference (ESWC 2015)

Catherine Faron-Zucker: Workshops co-chair at ESWC 2015, co-chair of SW4SH 2015 workshop.

Fabien Gandon: General chair of ESWC 2015, European Semantic Web Conference, Portoroz, Slovenia

Alexandre Monnin: co-chair of SW4SH 2015 workshop.

9.1.1.2. Member of the organizing committees

Alain Giboin: co-organizer of JMIC 2015 Talence et JMIC 2015 Nantes.

9.1.2. Scientific events selection

9.1.2.1. Chair of conference program committees

Alain Giboin: Associate Chair of CSCW 2015.

9.1.2.2. Member of the conference program committees

Fabien Gandon: IJCAI, ISWC, WWW, WI, ESWC, Hypertext, WebSci, ICWSM, SEMANTiCS, SAC, RFIA, EGC, IC.

Michel Buffa: Web Audio Conference.

Elena Cabrio: Association for Computational Linguistics conference (ACL 2015), Extended Semantic Web Conference (ESWC 2015), Language Resources and Evaluation Conference (LREC).

Olivier Corby: IC, GKR Workshop @ IJCAI, MOREBI

Catherine Faron-Zucker: i-KNOW, PRIMA, KEOD, LinkED, SW4SH, GKR, IC, EIAH

Alain Giboin: member of the steering committee of the COOP conference series (International Conferences on the Design of Cooperative Systems). Member of the program committee of: SEMANTICS 2015 - Research & Innovation Track; SEMANTICS 2015 - Posters and Demos; IC 2015; EPIQUE 2015.

Isabelle Mirbel:

26th International Conference on Advanced Information Systems Engineering (CAISE 2015), First International Workshop on Semantic Web for Cultural Heritage to be held in conjunction with the 19th East-European Conference on Advances in Databases and Information Systems (ADBIS 2015).

Alexandre Monnin: IC, ESWC, WWW, PhiloWeb, SW4SH.

Andrea Tettamanzi: FLAIR 2015 and 2016, EvoApps 2015, IC 2015, WIRN 2015, PRIMA 2015, PPSN 2016, GECCO 2016, and LREC 2016 conferences, as well as for the SW4SH workshop of ESWC and the MOD workshop.

Serena Villata: IJCAI, AAI, JURIX.

9.1.2.3. Reviewer

Michel Buffa: ESWC, WWW Demo Track, SWCS, Web Audio Conference 2016.

Olivier Corby: ESWC, GraphQ, SIIM, TTCS.

Alain Giboin: CHI 2015, OZCHI 2015, ESWC 2015, IHM 2015, WWW 2016.

Alexandre Monnin: IC, ESWC, WWW Webscience track, TICE.

9.1.3. Journal

9.1.3.1. Member of the editorial boards

Nhan Le Thanh: Journal of Science and Technology, Danang University- Issue on Information and Communications Technology⁰.

9.1.3.2. Reviewer - Reviewing activities

Elena Cabrio: Journal of Web Semantics, and for the Computational Linguistics journal

Olivier Corby: Journal of Computer and System Sciences, Semantic Web Journal

Catherine Faron-Zucker: Int. Journal of Artificial Intelligence in Education (IJAIED), Int. Journal of Human Computer Studies (IJHCS)

Fabien Gandon: Intellectica

Isabelle Mirbel: Artificial Intelligence Review Journal (Springer), Neurocomputing (Elsevier), International Journal of Information System Modeling and Design (IGI Global).

Andrea Tettamanzi: Genetic Programming and Evolvable Machines

Nhan Le Thanh: Journal of Science and Technology, Danang University.

Serena Villata: Journal of Logic and Computation, Argument & Computation, ACM Transactions on Intelligent Systems and Technology.

9.1.4. Invited talks

Michel Buffa: Web Audio track at WWW2015, presentation of MT5, a HTML5 multitrack player for musicians, May, Florence, Italy.

Fabien Gandon⁰:

- Invited research Talk, Dassault Systèmes, “Relier trois des toiles du Web : ou comment tisser des liens entre le Web de données, le Web sémantique et le Web social”, 28/01/2015
- LIG Keynote Speech, “Bridging formal semantics and social semantics on the Web” 8/01/2015

Olivier Corby:

- *SPARQL Template Transformation Language* at ESIRROI, University of La Réunion, April 16th.
- FunSPARQL: a Function Language on top of SPARQL, December 15th, Web/reactive programming seminar at Inria Sophia Antipolis organized by Indes team.

Alexandre Monnin:

- Participate in a closed seminar hosted by Peter Norvig at Google’s headquarter in Mountain View on the Philosophy of the Web (other invitees included such renown figures as David Bates, Warren Sack, Andy Clark, Henry S. Thompson, Brian Cantwell Smith, Alison Gopnik, Daniel Russell, Hubert L. Dreyfus, Geoffrey Hinton, Ramanathan Guha, Sam Goto, Erin Siegal, Alva Noe, Tania Lombrozo, Terry Winograd, David Kirsh, Fernando Flores, John Searle).
- In April, was invited to participate in a seminar at Paris 10 Nanterre organized by Louise Merzeau, on DBpedia, and controversy analysis.
- The same day, did a presentation at La Sorbonne, at the Obvil Labex seminar, on the ontology of the Web.

⁰<http://jst.udn.vn/ict>

⁰see <http://www-sop.inria.fr/members/Fabien.Gandon/talks.html>

- In April, presentation along with philosopher Pierre Livet (Aix-Marseille University) at MSHS: "Séminaire invité, axe 2 "TICs, Usages et Communautés"", on "Architecture du Web et ontologie des opérations".
- In May, invited by the Digital Cultures Research Center (DCRL) of Leuphana University in Lüneburg (Germany) to participate in an international symposium: "Technological Conditions of Interventions. History, Epistemology, Dramaturgy". A book will be edited out of it (chapter "Making and caring: Philosophical engineering and the philosophy of the Web").
- In June, presentation during a two-day seminar at Mines ParisTech. A book will be published from the texts gathered there.
- In July, one-week long international conference at Cerisy-la-Salle on Scientific Philosophy, to celebrate the famous 1935 conferences on logical positivism that took place in Paris. He delivered a talk on the philosophical roots of the Semantic Web, in particular by insisting on the importance of two philosophers, Rudolf Carnap and Otto Neurath (logic and data visualization). The proceedings of this week will be published in 2016 by the Editions Matériologiques.
- In October, participate in the Heritage and Anthropocene conference in Dijon (Centre Georges Chevrier, CNRS, UMR 7366) where he presented a paper with Diego Landivar (Origen MediaLab). A publication venue for the papers presented there is now actively sought.
- La Sorbonne, in Paris, at the annual "Numérique et Société" seminar organized by the CRI (Centre de Recherche en Informatique, Paris 1 Panthéon-Sorbonne University) to deliver a presentation the 19th of November on "What the Web is not and what it is" with Aurélien Bénel (UTT). A publication of all the presentations delivered at this seminar since its inception will be published next year by the Publications de la Sorbonne (including our paper with A. Bénel).
- The 20th of November, presentation of an ongoing project with Lise Arena (UNS, Gredeg) and Bernard Conein (UNS, Gredeg) between Inria and UNS on "Digital artifacts and materialities". This was part of an event organized by Sylvie Mellet, vice president of the university for research, where the various interdisciplinary axes of UNS were introduced to an audience of peers.
- Presentation at the Institut für Transportation Design (ITD) of the Hochschule für Bildende Künste Braunschweig, on the 23rd of November (on digital design and sustain-ability: "Caring for all objects, caring for some of them: instauration (destauration)/disclosing (forclosing)/futuraing (defuturaing)").
- Lille, in December 2015, at the Espace Culture of the University, discussion on the "mappability of the Web". A short paper (3 pages long) was published by the Lettre d'Archimède journal of the University as a teaser for my presentation.
- 1st of December, Time and Temporality on the Web (TToW) international conference, celebrating the Web's 25th anniversary at ISCC (CNRS, Paris) with Fabien Gandon (Inria, Wimmics). Our presentation is dedicated to the history of the architecture of the Web.

9.1.5. Scientific expertise

Alexandre Monnin worked for *Foundation des Galeries Lafayette for Contemporary Art* on their digital platform, of which he is the architect. He worked on the project with Mnemotix, the startup that grew out of Wimmics, and with Telecom ParisTech (official partnership) through Jérôme Denis, who is a sociologist there. This project is very much a research project which aims to capture the practices involved in producing and judging contemporary artworks. Publications are expected to follow from it.

9.1.6. Research administration

Catherine Faron-Zucker coordinates the Web option of the 5th year of Polytech Nice Sophia engineering school and is in charge of continuous training for the computer science department of Polytech Nice Sophia Antipolis.

Fabien Gandon is the W3C Advisory committee representative for Inria.

Alain Giboin serves as scientific correspondent for Inria Sophia of COERLE (Inria Comité Opérationnel d'Evaluation des Risques Légaux et Ethiques), in tandem with the legal correspondent Sabine Landivier.

Isabelle Mirbel is Vice-dean of Science Department at University Nice-Sophia Antipolis.

Andrea Tettamanzi has coordinated the 3rd year of the *Licence* in Business Informatics (MIAGE) at the UFR Science of the Université Nice Sophia Antipolis (UNS)

Nhan Le Thanh is animator of a multidisciplinary cooperation working group (eHealth) and coordinator of the bilateral scientific cooperation program (NiceCampus) between Nice-Sophia Antipolis University and Danang University. He is Director of the computer science department, IUT, Nice-Sophia Antipolis University.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Licence : Amel Ben Othmane, Oracle, 64h, L1, IUT UNS.

Licence : Elena Cabrio, Algorithms, Object-oriented programming (labs), 18h, Licence 2, UNS.

Licence : Elena Cabrio, Introduction to the Web (labs), 12h, Licence 1, UNS.

Licence : Elena Cabrio, Web Server Programming (labs), 18h, Licence 1 UNS.

Licence : Olivier Corby, Semantic Web, 2h, L3, UTT.

Licence : Isabelle Mirbel, Databases, 58h, L3 MIAGE, UNS.

Licence : Isabelle Mirbel, Web programming (Persistence), 54h L3 MIAGE, UNS.

Licence : Alexandre Monnin, Analyse des controverses, 7h30, L1, Telecom ParisTech.

Licence : Alexandre Monnin, Philosophie du Web et controverses, 12h, L3, Université Paris 10.

Licence : Andrea Tettamanzi, Algorithmique – Programmation Objet – Python, 50 h, Licence 2, UNS.

Licence : Andrea Tettamanzi, Programmation Web Avancée (côté client), 39 h, Licence 2, UNS.

Licence : Andrea Tettamanzi, Web, 18h, L3 MIAGE, UNS.

Licence : Nhan Le Thanh, Databases, 150h, DUT S2, IUT UNS.

Licence : Nhan Le Thanh, Advanced Databases, 105h, DUT S3, IUT, UNS.

Licence: Nhan Le Thanh, Logical Data Models and Languages, 24h, L3, UNS.

Licence: Nhan Le Thanh, Design and Development of DBMS services, 24h, L3, UNS.

Licence : Serena Villata, Conception orientée objets, 6h, Licence Miage, UNS.

Master : Michel Buffa, Distributed Web Development, 40h, M2, UNS.

Master : Michel Buffa, Plasticity of User Interfaces, HTML5 8h, M2, Polytech UNS.

Master : Michel Buffa, New Interaction Means, HTML5, 8h, M2, Polytech UNS.

Master : Michel Buffa, Web 2.0, Web Services, HTML5, 40h, M2 MIAGE, UNS.

Master : Elena Cabrio, Knowledge Engineering, 7h, Master 2 KIS, UNS.

Master : Elena Cabrio, Web Science, 3h, Master 2 IFI, UNS.

Master : Olivier Corby, Catherine Faron-Zucker, Fabien Gandon, Semantic Web, 45h, M2, UNS.

Fabien Gandon, *Web Sémantique ou comment se déploient sur le Web les données liées et la sémantique de leurs schémas*, 2H/year, M2, Ecole Centrale Paris.

Master: Amosse Edouard, Development on the Android platform, 24h, M2, UNS, France

Master: Amosse Edouard, Web Services, 22h, M2, UNS, France

Master: Amosse Edouard, Web Architecture & Web Services, 25h, M2, University State of Haiti, Haiti

Master: Amosse Edouard, Mobile Development, 30h, M2, University State of Haiti, Haiti

- Master: Amosse Edouard, Introduction to Near Field Communication, 15h, M2, EMSI, Maroc
- Master: Amosse Edouard, Administration of Oracle Database, 16h, M1, UNS, France
- Master: Alain Giboin, Human-Computer-Interaction Design and Evaluation, 54h, M2, UNS.
- Master: Alain Giboin, Interaction Techniques and Mutlimodality, 8h, M2, UNS.
- Master: Alain Giboin, Task and Activity Analysis for HCI design and evaluation, 6h, M2 Sociology and Ergonomics of Digital Technologies, UNS.
- Master: Alain Giboin, HCI Design and Evaluation, 10h, M2 Sociology and Ergonomics of Digital Technologies, UNS
- Master : Alain Giboin, Economics and ICT: Ergonomics, 15h, M2 Economics and ICT, ISEM, UNS.
- Master : Isabelle Mirbel, Advanced databases, 48h, MASTER MIAGE 1, UNS.
- Master : Isabelle Mirbel, Requirement Engineering, 42h, MASTER MIAGE 1, UNS.
- Master : Isabelle Mirbel, Project Management, 20h, MASTER MIAGE 2, UNS.
- Master : Alexandre Monnin, Style d'architecture REST et prise en main de Wikipédia/DBpedia, 5h, M2, Université de Technologie de Troyes (UTT).
- Master : Alexandre Monnin, Ingénierie des connaissances : Wikipedia, DBpedia et Wikidata, 3h, M2 Miage, UNS.
- Master : Andrea Tettamanzi, Systèmes Distribués, 18h, Master MIAGE 1, UNS.
- Master : Andrea Tettamanzi, Concurrency and Parallelism, 18h, Master International 1, UNS.
- “Fuzzy Description Logics” and “Ontology Learning”, within the module *Ingénierie des connaissances*, Master 2 Web, Polytech'Nice, 10 h ETD.
- Master : Serena Villata, Knowledge Engineering & Argumentation Theory, 3h, M2 KIS, UNS.
- Master : Serena Villata, Web Science, 5h, Master Miage, UNS.

E-learning

- Mooc: Fabien Gandon, Olivier Corby & Catherine Faron-Zucker, Semantic Web, 7 weeks, <http://www.france-universite-numerique.fr/>, Inria, France Université Numérique, Education for Adults, 4000 registered.
- Mooc: Michel Buffa, HTML 5 Part 1: HTML5 Coding Essentials and Best Practices, 6 weeks, <https://www.edx.org/course/html5-part-1-html5-coding-essentials-w3cx-html5-1x>, EDx, W3C, for all international public, 88K + 67K registered (2 sessions).
- Mooc: Michel Buffa, HTML 5 Part 2: Advanced Techniques for Designing HTML5 Apps, 4 weeks, <https://www.edx.org/course/html5-part-2-advanced-techniques-w3cx-html5-2x>, EDx, W3C, for all international public, 20K registered.

9.2.2. Supervision

- PhD : **Thi Hoa Hue Nguyen**, *La vérification de patrons de workflow métier basés sur les flux de contrôle : Une approche utilisant les systèmes à base de connaissances*, U. Nice-Sophia Antipolis & U. Danang, June 16th, Nhan Le Thanh
- PhD in progress : **Amel Ben Othmane**, *Temporal and Semantic Analysis of Information Retrieved from Short and Spatio-Temporal Messages in Social Networks*, UNS, Nhan Le Than.
- PhD in progress : **Papa Fary Diallo**, *Co-Construction of Community Ontologies and Corpus in a Limited Technological Environment*, Inria, UNS, UGB, Isabelle Mirbel, Olivier Corby, Moussa Lo.
- PhD in progress : **Amosse Edouard**, *Studies of Spatial Semantic Aspect, Real Time Filtering Mechanisms and Semantic Enrichment of Short Messages on Dynamic Spatio-Temporal Social Networks*, UNS, Nhan Le Thanh.
- PhD in progress : **Zide Meng**, *Temporal and Semantic Analysis of Richly Typed Social Networks from User-Generated-Content Sites on the Web*, UNS, Fabien Gandon, Catherine Faron-Zucker.

PhD in progress : **Franck Michel**, *Heterogeneous databases federation in distributed environment*, UNS, Johan Montagnat, Catherine Faron-Zucker.

PhD in progress : **Tran Duc Minh**, *Learning Ontologies from Linked Open Data*, Andrea Tettamanzi, UNS and Nguyen Thanh Binh, University of Danang.

PhD in progress : **Emilie Palagi**, *Design of a Model-based Method for Evaluating Exploratory Search Systems*, UNS, Labex UCN@Sophia, Alain Giboin, Fabien Gandon with Raphael Troncy (Eurecom).

PhD in progress : **Tuan Anh Pham**, *Study and integration of the mechanism of workflow control in MVC (Model View Controller) architecture: design and implementation of an APM (Activity Process Management) platform for dynamic information systems on the networks*, UNS, Nhan Le Thanh.

9.2.3. Juries

Olivier Corby was reviewer, together with Fabien Gandon, of the PhD thesis of Nicola Guido *On the Static Analysis for SPARQL Queries using Modal Logic* at Univ. Grenoble on December 3rd 2015.

Catherine Faron-Zucker was member of the jury of:

Pierre-Yves Buard, *Modélisation de sources anciennes et édition numérique*, Université de Caen, May 2015;
Xuan Truong Vu, *User-centered and group-based approach for social data filtering and sharing*, Université de Technologie de Compiègne, April 2015;

Farouz Soualah-Alila, *CAMLearn : une architecture de système de recommandation sémantique sensible au contexte: application au domaine du m-learning*, Université de Dijon-Auxerre, March 2015.

Fabien Gandon was president of the jury of Freddy Lecue Habilitation *Semantics for Scalable Machine Reasoning in the Web of Data*, University Nice-Sophia Antipolis, November 6th 2015.

Alain Giboin was jury member of the PhD thesis of Aurore Defays: "Influence des communications multimodales sur le processus de grounding. Proposition d'une méthodologie d'analyse, appliquée dans le domaine de la conception architecturale", Université de Liège, Belgique, July 2015.

Isabelle Mirbel was jury member: Myriam FAKHRI, PAX : une vision des processus métier basée sur la co-ingénierie de compositions de services, Aix Marseille Université, December 2015.

Andrea Tettamanzi was jury member:

Seif-Eddine Kramdi, *A Modal Approach to Model Computational Trust*, Université Paul Sabatier, Toulouse, October 5, 2015;

María Martínez Rojas, *Tratamiento inteligente de datos en proyectos de edificación*, University of Granada, Spain, November 25, 2015.

9.3. Popularization

Fabien Gandon's general talks⁰:

- Invited general Talk, Agora des Savoir, Montpellier, "Les (r)évolutions de la planète Web" 29/4/2015
- Invited general Talk, DataLift Day, "Quand le Web fait sens" 9/04/2015

Catherine Faron-Zucker's general talks:

- Invited talk at the MOOC Lab Inria workshop in January 2015 on the Linked Data in e-Education

⁰see <http://www.sop.inria.fr/members/Fabien.Gandon/talks.html>

ZENITH Project-Team

10. Dissemination

10.1. Scientific Animation

Participation in the editorial board of scientific journals:

- VLDB Journal: P. Valduriez.
- Journal of Transactions on Large Scale Data and Knowledge Centered Systems, R. Akbarinia.
- Distributed and Parallel Databases, Kluwer Academic Publishers: E. Pacitti, P. Valduriez.
- Internet and Databases: Web Information Systems, Kluwer Academic Publishers: P. Valduriez.
- Journal of Information and Data Management, Brazilian Computer Society Special Interest Group on Databases: P. Valduriez.
- Book series "Data Centric Systems and Applications" (Springer): P. Valduriez.
- Ingénierie des Systèmes d'Information, Hermès : P. Valduriez.
- Journal of Data Semantics (Springer): S. Cohen-Boulakia
- Multimedia Tools and Applications: A. Joly

Participation to the organization of conferences and workshops:

- Alexis Joly was the main chair of the LifeCLEF 2015 international workshop⁰ dedicated to multimedia biodiversity data management (Toulouse, September 8-10, part of CLEF 2015 conference)
- Alexis Joly was in the organizing committee of the 2nd International Workshop on Environmental Multimedia Retrieval⁰, in conjunction with ICMR 2015, 23 June, Shanghai
- Alexis Joly was in the organizing committee of the Floris'tic national workshop hold during the "salon de l'écologie"⁰, Montpellier, France, 5-7 November

Participation in conference program committees :

- ACM SIGMOD Conf. 2015: R. Akbarinia, S. Cohen-Boulakia, 2016: R. Akbarinia, S. Cohen-Boulakia
- IEEE Int. Conf. on Data Engineering (ICDE) 2015: S. Cohen-Boulakia, 2016: R. Akbarinia, E. Pacitti, P. Valduriez (area chair)
- ADBIS 2015 - East-European Conference on Advances in Databases and Information Systems: R. Akbarinia, P. Valduriez (PC chair)
- VLDB 2015 : P. Valduriez (sponsor co-chair, and best paper award committee)
- Int. Conf. on Extending DataBase Technologies (EDBT), 2015: E. Pacitti
- BPM 2015 (Business Process Management (BPM) 2015: S. Cohen-Boulakia
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015: A. Joly
- ACM Multimedia conference (ACMMM), 2015: A. Joly
- International Conference and Labs of the Evaluation Forum (CLEF), 2015: A. Joly
- IEEE International Conference on Image Processing (ICIP), 2015: A. Joly
- ACM International Conference on Multimedia Retrieval (ICMR), 2015: A. Joly
- IEEE Int. Workshop on Environmental Acoustic Data Mining (EADM), 2015: A. Joly

⁰<http://www.imageclef.org/lifeclef/2015>

⁰<http://mklab.iti.gr/emr2015/>

⁰<http://www.salon-ecologie.com/congres-ecolotech-montpellier/programme-du-congres/>

- Workshop on Theory and Practice of Provenance (TAPP) 2014 et 2015: S. Cohen-Boulakia
- ICDT workshop on Algorithms and Systems for MapReduce and Beyond (BeyondMR) 2015: S. Cohen-Boulakia
- IEEE Int. Conf. on Data Mining, 2015: F. Massegli (area chair)
- ACM Symposium on Applied Computing, 2015: F. Massegli
- Int. Conf. on Data Management Technologies and Applications, 2015: F. Massegli
- Pacific-Asia Conf. on Knowledge Discovery and Data Mining, 2015: F. Massegli
- European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, 2015: F. Massegli
- IEEE Int. Conf. on Data Science and Advanced Analytics, 2015: F. Massegli
- Workshop on Big Data and Data Mining Challenges on IoT and Pervasive Systems, 2015: E. Pacitti
- 9th BRESCHI - Brazilian e-Science Workshop, 2015: E. Pacitti

Reviewing in international journals :

- Distributed and Parallel Databases: R. Akbarinia
- ACM Transactions on Database Systems (TODS): A. Joly
- IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI): A. Joly
- IEEE Transactions on Knowledge and Data Engineering: R. Akbarinia
- Information Sciences: A. Joly
- Ecological Informatics: A. Joly
- Multimedia Tools and Applications Journal (MTAP): A. Joly
- Multimedia Systems: A. Joly
- Transactions on Information Forensics & Security: A. Joly
- International Journal of Computer Vision: A. Joly
- Transactions on Image Processing: A. Joly
- ACM Trans. on Database Systems: E. Pacitti
- Knowledge and Information Systems (KAIS): F. Massegli
- Int. Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (IJUFKS): F. Massegli
- IEEE Transactions on Knowledge and Data Engineering (TKDE): F. Massegli

Other activities (national):

- Zenith participated in the Hemera and Grid'5000 communities by: contributing to the definition of "Storage 5000" (we help defining the financial model for teams to have their data in Grid5000) ; participating to Hemera meetings (Florent Massegli gave a talk on "Pattern Mining from Big Data, meeting of Sept. 18, Nantes); and contributing to the prospective document of Grid5000.
- P. Valduriez is the scientific manager for the Latin America zone at Inria Direction des Relations Internationales (DRI), Member of the Scientific Committee at Agence Nationale de la Recherche (ANR) - Défi 7 Information and communication society and Member of the Scientific Committee of the BDA conference.
- A. Joly gave several invited talks in national events: *industrial computer vision days 2015*⁰, Montpellier, 15 October, *ICAR-AMAP images days 2015*⁰, September 17 He defended his « Habilitation à Diriger les Recherches (HDR) » entitled *Large-scale Content-based Information Retrieval* in June.
- F. Massegli gave an invited talk at the CNRS national seminar on IST about "Publication Data Analytics" (Meudon, 10 November), and an invited talk to the DSI service of IRD on "Scientific Data Mining" (Montpellier, 18 September). Florent also participates in the Class'Code PIA project dedicated to teaching computational thinking for professionals of education (head of the working group on the definition of fundamental notions).
- S. Cohen-Boulakia gave invited tutorials at the DigiCosme Spring School 2015 on Data Management (Saclay, May 2015) and at the summer school Cumulo-Numbio : Cloud computing for the life sciences (Aussois, June 2015).

⁰<http://www.captronic.fr/Image-vision-industrielle.html>

⁰http://amap-collaboratif.cirad.fr/ecipp/?page_id=901

Other activities (international):

- P. Valduriez gave several invited talks in international events: “Data-intensive HPC: opportunities and challenges”, Workshop on Big Data and Extreme-scale Computing (BDEC), Barcelona, January 2015; “Cloud & big data: opportunities and risks for developing countries” at AFRICOMM 2015, Cotonou (Bénin), December 2015; “Big Data Management in Zenith” at Fundação Getulio Vargas, Rio de Janeiro, December 2015.
- A. Joly gave an invited talk at the ERMITES 2015 international summer school ⁰, 21-22 April 2015. He is the main chair of the LifeCLEF research platform and was the co-organizer of two of the challenges run within the lab in 2015 (the plant identification challenge and the bird identification challenge).
- S. Cohen-Boulakia gave invited talks at Universities of Pennsylvania, April, and Humboldt, Berlin, December.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Most permanent members of Zenith teach at the Licence and Master degree levels at UM2.

Reza Akbarinia:

Master Research: New approaches for data storage, 9h, level M2, Faculty of Science, UM

Licence: Computing Tools, 36h, Level L3, Faculty of Science, UM

Florent Masegla:

Science Popularization: 4 Ph.D students, from 3 different doctoral schools are having a 30h doctoral module under Florent Masegla’s supervision.

Esther Pacitti:

IG3: Database design, physical organization, 54h, level L3, Polytech’ Montpellier, UM2

IG4: Networks, 42h, level M1, Polytech’ Montpellier, UM2

IG4: Object-relational databases, 32h, level M1, Polytech’ Montpellier, UM2

IG5: Distributed systems, virtualization, 27h, level M2, Polytech’ Montpellier, UM2

Industry internship committee, 50h, level M2, Polytech’ Montpellier

Master Research: Large scale data management, 4,5h, level M2, Faculty of Science, UM2

Didier Parigot:

Master Research: Large scale data management, 6h, level M2, Faculty of Science, UM2

Patrick Valduriez:

Master Research: Large scale data management, 12h, level M2, Faculty of Science, UM2

Professional: Distributed Information Systems, 50h, level M2, Capgemini Institut

Professional: XML, 30h, level M2, Orsys Formation

Alexis Joly:

Master Research: Large-scale Content-based Visual Information Retrieval, 3h, level M2, Faculty of Science, UM2

⁰<http://glotin.univ-tln.fr/ERMITES15/>

10.2.2. Supervision

- PhD in progress: Mehdi Zitouni Closed Pattern Mining in a Massively Distributed Environment started Sept. 2014, Univ. Tunis, Advisor: Florent Massegli, co-advisor: Reza Akbarinia
- PhD in progress : Ji Liu, Scientific Workflows in Multisite Cloud, started oct. 2013, Univ. Montpellier, Advisors: Esther Pacitti and Patrick Valduriez
- PhD in progress : Saber Salah, Optimizing a Cloud for Data Mining Primitives, started nov. 2012, Univ. Montpellier, Advisor: Florent Massegli, co-advisor: Reza Akbarinia
- PhD in progress : Valentin Leveau, Supervised content-based information retrieval in big multimedia data, started April 2013, Univ. Montpellier, Advisor: Patrick Valduriez, co-advisor: Alexis Joly and Olivier Buisson
- PhD in progress : Djamel-Edine Yagoubi, Indexing Time Series in a Massively Distributed Environment, started October 2014, Univ. Montpellier, Advisors: Florent Massegli and Patrick Valduriez, co-advisor: Reza Akbarinia
- PhD in progress : Sakina Mahboubi, Privacy Preserving Query Processing in Clouds, started October 2015, Univ. Montpellier, Advisor: Patrick Valduriez, co-advisor: Reza Akbarinia

10.2.3. Juries

Members of the team participated to the following Ph.D. committees:

- E. Pacitti: Sébastien Monnet (HDR, Univ. Paris 6), Luis Daniel Ibanez (Univ. Nantes), Maeva Antoine (Univ. Nice), Julien Lacroix (Univ. Aix-Marseille).
- P. Valduriez: Gerson Sunyé (HDR, Univ. Nantes, chair), Amin Mesmoudi (Univ. Lyon 1) Stamatis Zampetakis (Univ. Paris Sud).

10.3. Popularization

Today, one of the main questions in science popularization and computer science teaching at school in France is: "how to scale?". Some of our recent actions in the domaine are mainly oriented towards this goal of scaling, in particular with the Class'Code PIA project (https://pixees.fr/?page_id=1980, F. Massegli is member of the project).

F. Massegli has coordinated a national network of colleagues for promoting code learning. After several training sessions given to professionals of education F. Massegli has written a complete guide for setting up a similar training session (<https://pixees.fr/?p=5713>).

"La main à la pâte" is leading the writing of a school book on computer science teaching involving Inria (Gilles Dowek, Pierre-Yves Oudeyer, Florent Massegli and Didier Roy), "France-IOI" and the University of Lorraine. Florent Massegli has tested the pedagogical sequences of the book in a classroom near Montpellier.

Zenith participated to the following events in Montpellier:

- F. Massegli co-organized and co-animated the Inria's stand at "La fête de la science" (Montpellier), held by Genopolys (a science village).
- F. Massegli organized and animated several "Kid&Code" studios in the greater metropolitan area of Montpellier, involving the network of media libraries and the network of extracurricular activities. He also has proposed a two sessions training to activity leaders of "Les petits débrouillards". The goal is to accompany the activity leaders and help them until they are autonomous
- F. Massegli is member of the project selection committee for "La fête de la science" in Montpellier
- F. Massegli is co-author of a paper in the Scratch conference on code learning for kids [50]
- M. Servajean and A. Joly co-animated a stand at "La fête de la science" (Montpellier), held by the LIRMM laboratory
- M. Servajean, A. Joly and J. Champ collaborated to a participatory workshop at "Le salon de l'écologie", Montpellier

F. Masegla is scientific vice-editor of *interstices* (<https://interstices.info>), and a member of the scientific committee for the edition of “Datagramme”, the game from Inria on science popularization. He has participated to the two days training sessions on "science popularization" given by Claude Vadel in Paris, on Dec. 4 and 5, 2014.

A. Joly and J. Champ participated to the set-up of a Pl@ntNet demo within the French pavillon at the Universal Exposition hold in Milan (about 2M visitors on the French pavillon).

As a member of the organizing committee of the Floris'tic project, A. Joly participated to several popularization and educational actions in collaboration with Tela Botanica NGO (cities, parks, schools, etc.)

F. Masegla is a member of the management board of "Les Petits Débrouillards" in Languedoc-Roussillon. He also is the scientific responsible for schools visits in the Lirimm Laboratory.

D. Shasha gave several talks: “the changing nature of invention in computer science” (Morgenstern seminar) and “Group Testing to Describe Causality in Gene Networks” at Inria Sophia-Antipolis in april, and “Statistics is easy” at IBC, Montpellier in march.

P. Valduriez gave a talk on “Integrating Big Data and Relational Data with CloudMdsQL” at the DGA seminar “Traitement de l’information multimodale et Big Data”, Arcueil, in october.

ALICE Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific Events Selection

9.1.1.1. Member of Conference Program Committees

Bruno Lévy was a member of the conference committees of SGP2015 and ACM SIGGRAPH 2015.

Sylvain Lefebvre was a member of the technical papers committee of SIGGRAPH 2015.

9.1.1.2. Reviewer

Bruno Lévy was a reviewer for Eurographics.

Sylvain Lefebvre was a reviewer for SIGGRAPH Asia and Eurographics.

Nicolas Ray was a reviewer for SIGGRAPH, SIGGRAPH Asia and Eurographics.

Jérémie Dumas was a reviewer for UIST.

Laurent Alonso was a reviewer for LATIN 2016.

Samuel Hornus was a reviewer for Eurographics.

9.1.2. Journal

9.1.2.1. Member of Editorial Boards

Sylvain Lefebvre is associate editor for the journal ACM Transactions on Graphics.

Bruno Lévy is a member of the editorial boards of Graphical Models J. and the Visual Computer J.

9.1.2.2. Reviewer - Reviewing Activities

Sylvain Lefebvre reviewed articles for ACM Transactions on Graphics.

Bruno Lévy was a reviewer for ACM Transactions on Graphics, SIAM journal on scientific computing, IEEE TVCG, Computer Graphics Forum.

Jérémie Dumas was a reviewer for IEEE TVCG.

Samuel Hornus was a reviewer for IEEE TVCG, ACM Transactions on Graphics, REFIG.

Laurent Alonso reviewed articles for Discrete Applied Mathematics, Graphs and Combinatorics.

9.1.3. Invited Talks

- Bruno Lévy, 11/24/2015, Seminaire Equations aux Dérivées Partielles de l'IRMA - Strasbourg, invited talk
- Bruno Lévy, 19/10/2015: Intl. Conference on 3D Vision (3DV), invited tutorial
- Bruno Lévy, 07/10/2015: Journées Informatique et Géométrie (JIG2015), invited talk
- Bruno Lévy, 06/29/2015: Journée de l'ANR Geometrya - Summer School Geometric Measure Theory at Institut Fourier - invited talk, [video available](#).
- Bruno Lévy, 06/24-26/2015: Shape Modeling International - keynote talk
- Bruno Lévy, 03/6/2015: New trends in Optimal Transport - Computational Optimal Transport and applications - Bonn, Germany
- Bruno Lévy, 02/15/2015-02/20/2015: BIRS workshop, Advances in Numerical Optimal Transportation - Banff, Canada. [Video available](#).

- Bruno Lévy, 01/23/2015: seminar at the Jacques Louis Lions lab on Optimal Transport. [Slides available](#).
- Jonas Martínez Bayona, gave a talk in CNR Pisa about offset surfaces for fabrication while he was visiting the Visual Computing Lab from 03/03/2015 to 06/03/2015.
- Jonas Martínez Bayona, 29/09/2015, seminar at UPC (Barcelona) to introduce IceSL and the research results it includes.
- Sylvain Lefebvre, 06/03/2015, seminar at Collège de France entitled *Balancing and supporting shapes for 3D printing*, [video available](#).
- Sylvain Lefebvre, 01/07/2015, keynote talk at CEIG 2015 (Spain).

9.1.4. Research Administration

Bruno Lévy was Vice-president of the Inria Chargé de Recherche hiring committee in Centre Nancy - Grand Est.

Samuel Hornus is a member of the CDT (Commission du Développement Technologique) of Inria Nancy - Grand Est. He is the « correspondant RAweb » to organize the writing of the activity reports of the Inria Nancy research teams.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

9.2.1.1. Master

Bruno Lévy, Pépites Algorithmiques, 20h ETD, École des Mines de Nancy, France

Bruno Lévy, Analyse Numérique, 20h ETD, 2ème année école d'Ingénieurs en Géologie de Nancy, France

Dmitry Sokolov, Infographie, 30h ETD, Université de Lorraine, France

Dmitry Sokolov, Algorithmique et programmation, 45h ETD, Université de Lorraine, France

Dmitry Sokolov, Algorithmique et Programmation Avancée, 60h ETD, Université de Lorraine, France

Dmitry Sokolov, Optimisation Combinatoire, 30h ETD, Université de Lorraine, France

Sylvain Lefebvre, Programmation OpenCL, 20h ETD, Université de Lorraine, France.

Sylvain Lefebvre, Programmation pour le jeu vidéo, 30h ETD, École des Mines de Nancy, France.

Sylvain Lefebvre, Introduction au parallélisme et au graphique, 9h ETD, ENSG Nancy, France.

Sylvain Lefebvre, Introduction à la fabrication additive, 9h ETD, ENSEM Nancy, France.

9.2.1.2. Licence

Dobrina Boltcheva, Image et son numériques, 100h ETD, IUT Saint-Dié-des-Vosges, France

Dobrina Boltcheva, 2A DUT INFO, Advanced programming, 100h ETD, IUT Saint-Dié-des-Vosges, France

Dobrina Boltcheva, 1A DUT INFO, Programming, 50h ETD, IUT Saint-Dié-des-Vosge, France

Dmitry Sokolov, Informatique graphique, 55h ETD, Université de Lorraine, France

Dmitry Sokolov, Programmation Avancée, 40h ETD, Université de Lorraine, France

Samuel Hornus, Mathématique pour l'informatique, 32h ETD, Télécom-Nancy, France

Samuel Hornus, Programmation Fonctionnelle en OCaml, 32h ETD, Épitech Nancy, France.

9.2.2. Internships

Tristan Ezequel, Université Jean Monnet (St Etienne), *méthodes d'apprentissage pour l'aide à la sélection de paramètres de modèles 3D*, March-July 2015, supervised by Sylvain Lefebvre and Amaury Habrard (Université Jean Monnet).

Charles Helbing, ENSEM (Nancy), *dépot de filament suivant une surface courbe*, March-August 2015, supervised by Dmitry Sokolov, Nicolas Ray and Sylvain Lefebvre.

Guillaume Devoille, Epitech, *OpenSCAD plugin for IceSL*, March-July 2015, supervised by Frédéric Claux.

Bolun Zhang, Hong Kong University, *Using the finite element method to determine infill parameters*, June-August 2015, supervised by Jonas Martínez Bayona and Sylvain Lefebvre.

Semigambi Andy-Saleh and Ouhdadi Yassine, Lorraine University, *Modeling and analysis of preferences in multicriteria decisions*, Mars-June 2015, supervised by Dmitry Sokolov.

Thomas Pagelot and Thibaut Humbert, Lorraine University, *Measuring filament diameter on the fly*, Mars-June 2015, supervised by Dmitry Sokolov.

9.2.3. Supervision

PhD in progress : Maxence Reberol, *Finite elements for non-conformal mixed hexahedral-tetrahedral meshes*, Janvier 2015, co-directed by Bruno Lévy and Sylvain Lefebvre

PhD in progress : Jean Hergel, *Modeling under Fabrication Constraints*, Oct. 2013, directed by Sylvain Lefebvre

PhD in progress : Jérémie Dumas, *By-example shape synthesis for Fabrication*, Sept. 2013, directed by Sylvain Lefebvre

PhD in progress : Arnaud Botella, *Génération de maillages hex-dominants pour la simulation numérique appliquée à la géologie*, Oct. 2012, co-directed by Guillaume Caumon and Bruno Lévy

Julien Renaudeau, *Méthode de l'élément frontière et ses applications en géomécanique*, Nov. 2015, co-directed by Guillaume Caumon and Bruno Lévy

PhD : Kun Liu, *Multi-view oriented 3D data processing*, Université de Lorraine, defended on December 14, 2015, co-directed by Bruno Lévy and Rhaleb Zayer.

9.2.4. Juries

Bruno Lévy participated to the following Ph.D. and habilitation juries:

- Committee member for the Habilitation Thesis of Boris Thibert (LJK Grenoble)
- Committee member for the Habilitation Thesis of Franck Hetroy (Inria Grenoble)
- Committee member for the Ph.D. defense of Norbert Bus (ESIEE, Paris)

9.3. Popularization

Bruno Lévy gave a talk in front of the general public in the context of the conference cycle *Sciences et Société*, entitled *Simuler la physique avec un ordinateur* on 12/10/2015.

Sylvain Lefebvre demonstrated IceSL at the Science Festival using a custom designed 3D printer. He jointly organized with the Nancy Makerspace (fablab) an event to present IceSL to the fablab users on October 22, 2015 <http://nybi.cc/2015/10/workshop-icesl/>.

AVIZ Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events organisation

9.1.1.1. General chair, scientific chair

- Petra Isenberg and Tobias Isenberg co-chaired the Workshop on Data Exploration for Interactive Surfaces at ITS (DEXIS)

9.1.1.2. Member of the organizing committees

- Petra Isenberg was IEEE VIS VisKids co-chair
- Tobias Isenberg was IEEE VIS exhibits co-chair
- Pierre Dragicevic was IEEE VIS panels co-chair

9.1.2. Scientific events selection

9.1.2.1. Member of the conference program committees

- ACM Conference on Human Factors in Computing Systems – Work In Progress: Samuel Huron
- ACM/Eurographics Expressive: Tobias Isenberg
- ACM Symposium on Spatial User Interfaces (SUI): Tobias Isenberg
- ACM Tabletop and Interactive Surfaces: Petra Isenberg, Tobias Isenberg
- Eurographics Visual Analytics Workshop (EuroVA): Nadia Boukhelifa
- Eurographics/VGTC Conference on Visualization (EuroVis) Short Papers: Tobias Isenberg
- IEEE 3D User Interfaces (3DUI): Tobias Isenberg
- IEEE Information Visualization (InfoVis): Pierre Dragicevic, Tobias Isenberg, Jean-Daniel Fekete
- IEEE Scientific Visualization (SciVis): Tobias Isenberg
- IEEE VIS Art Show (VISAP): Samuel Huron, Tobias Isenberg

9.1.2.2. Reviewer

- 3DUI: IEEE Symposium on 3D User Interfaces: Tobias Isenberg
- CHI: ACM Conference on Human Factors in Computing System: Nadia Boukhelifa, Jeremy Boy, Pierre Dragicevic, Pascal Goffin, Samuel Huron, Mathieu LeGoc, Petra Isenberg, Tobias Isenberg, Jean-Daniel Fekete
- EXPRESSIVE: The Joint Symposium on Computational Aesthetics and Sketch-Based Interfaces and Modeling and Non-Photorealistic Animation and Rendering: Tobias Isenberg
- EUROVA: EuroVis Workshop on Visual Analytics: Nadia Boukhelifa
- EUROVIS: Eurographics/IEEE Conference on Visualization: Tobias Isenberg, Jean-Daniel Fekete
- GI: Graphics Interface: Samuel Huron
- IHM: Conférence Francophone sur l'Interaction Homme-Machine: Pierre Dragicevic
- INFOVIS: IEEE Information Visualization Conference: Nadia Boukhelifa, Pierre Dragicevic, Pascal Goffin, Tobias Isenberg
- INTERACT: IFIP Conference on Human-Computer Interaction: Pierre Dragicevic
- ITS: ACM Conference on Interactive Tabletops and Surfaces: Jeremy Boy, Petra Isenberg, Tobias Isenberg

- IUI: Intelligent User Interfaces: Tobias Isenberg
- MOBILEHCI: International Conference on Human-Computer Interaction with Mobile Devices and Services: Pierre Dragicevic
- PACIFICVIS: IEEE Pacific Visualization Symposium: Nadia Boukhelifa
- SCCG: Spring Conference on Computer Graphics: Tobias Isenberg
- SCIVIS: IEEE Scientific Visualization Conference: Tobias Isenberg
- SIGGRAPH: ACM Conference on Computer Graphics and Interactive Techniques: Tobias Isenberg
- SIGGRAPH ASIA: ACM Conference on Computer Graphics and Interactive Techniques in Asia: Tobias Isenberg
- SUI: ACM Symposium on Spatial User Interaction: Tobias Isenberg
- TEI: Tangible, Embedded and Embodied Interaction: Mathieu LeGoc
- UIST: ACM Symposium on User Interface Software and Technology: Pierre Dragicevic
- VAST: IEEE Visual Analytics Science and Technology: Nadia Boukhelifa
- VISAP: IEEE Visualization Arts Program: Petra Isenberg, Tobias Isenberg
- VR: IEEE Virtual Reality: Tobias Isenberg

9.1.3. Journal

9.1.3.1. Member of the editorial boards

- Jean-Daniel Fekete was Associate Editor of IEEE Transactions on Visualization and Computer Graphics.
- Petra Isenberg was a guest editor of a special issue of Sage Publishing's Information Visualization on selected papers from BELIV 2014.
- Tobias Isenberg is associate editor of Elsevier Computers & Graphics.
- Tobias Isenberg was a guest editor of a special issue of Sage Publishing's Information Visualization on selected papers from BELIV 2014.

9.1.3.2. Reviewer - Reviewing activities

- Applied Mathematical Modeling: Tobias Isenberg
- Book review for Morgan Claypool Publishers: Petra Isenberg
- C&G: Computers & Graphics Journal: Nadia Boukhelifa, Tobias Isenberg
- JCSCW: Journal on Computer Supported Cooperative Work: Petra Isenberg
- Information Visualization Journal: Tobias Isenberg
- SCC: Spatial Cognition Computational Journal: Nadia Boukhelifa
- TVCG: IEEE Transactions on Visualization and Computer Graphics: Jeremy Boy, Tobias Isenberg

9.1.4. Invited talks

- Jean-Daniel Fekete: Invited Talk, MIT, "Visualizing Large and Dense Graphs", Dec. 2nd, 2015
- Jean-Daniel Fekete: Invited Talk, Brown University, "ProgressiVis: a New Workflow Model for Scalability in Information Visualization", Nov. 4. 2015
- Jean-Daniel Fekete: Invited Talk, Columbia University, "Visualizing Large and Dense Networks", Sep. 18th, 2015
- Jean-Daniel Fekete: Invited Talk, IBM Watson Research Center, "ProgressiVis: a New Workflow Model for Scalability in Information Visualization", Sep. 17. 2015
- Jean-Daniel Fekete: Invited Talk, Center for Data Science, New York University, "ProgressiVis: a New Workflow Model for Scalability in Information Visualization", Sep. 14, 2015

- Jean-Daniel Fekete: Invited Talk, University of Maryland, “Visualization for the People: Where Are We Now”, Sep. 10th, 2015
- Jean-Daniel Fekete: Invited Talk, CANVAS Summer School, Toronto, “Visualization for the People: Where Are We Now”, Jul. 2015
- Jean-Daniel Fekete: Invited Talk, Microsoft Research Redmond, “Visualization for the People: Where Are We Now”, Tuesday, Jun. 9, 2015
- Jean-Daniel Fekete: Invited Talk, Tableau Software, “Matrix-Based Visualization”, Monday, Jun. 8, 2015
- Jean-Daniel Fekete: The Visualization Distinguished Lecture Series, Georgia Tech “Visualization for the People: Where Are We Now”, Friday, Apr. 10, 2015
- Jeremy Boy: Invited talk at Harvard, December 1, 2015 on “Towards Enabling Casual-Users to Engage in Data Exploration Using Information Visualization Interfaces”.
- Pierre Dragicevic: “Recent and Future Information Visualization Research at Inria / Aviz”. Guest lecture at HIIT Finland, 4 March 2015.
- Pierre Dragicevic: “Introduction aux nouvelles statistiques pour l’IHM”. Rencontre Jeunes Chercheurs en Interaction Homme-Machine (RJC IHM 2015), Oléron, 1 June 2015.
- Pierre Dragicevic: “How to Adopt the New Statistics in HCI”. Doctoral Colloquium HCI Group Univ Munich, Venice, 6 October 2015.
- Pierre Dragicevic: “Overview of Temporal Data Visualization Approaches”. 3ème journée ESSTE INRA – Visualisation des données spatio-temporelles et méthodes, Agro ParisTech, 27 November 2015.
- Petra Isenberg: keynote at the 2015 CANVAS summer school, Toronto, Canada on “Novel Display Technology for Visual Analytics”.
- Tobias Isenberg: ““Touching” the Third Dimension—Exploration of Scientific Data on Surfaces”. Inria Méditerranée, Sophia Antipolis, France, Sep. 28, 2015.
- Tobias Isenberg: “Illustrative Visualization for Molecular Data”. Keynote, conference of the thematic groups “Enzymes” and “Graphics and Molecular Modeling” of the Société Française de Biophysique, Sète, France, May 28 2015
- Tobias Isenberg: “Abstraction in Non-Photorealistic Rendering and Illustrative Visualizations.”. Hasso Plattner Institute Potsdam, Germany, Apr. 30, 2015
- Romain di Vozzo: “How to create a fablab?” Institut Supérieur des Etudes Techniques de Sousse. Sousse, Tunisia.

9.1.5. Leadership within the scientific community

- Jean-Daniel Fekete is a member of the Visualization Executive Committee of the IEEE VIS Conference
- Jean-Daniel Fekete is the chair of the Steering Committee of the IEEE Information Visualization Conference
- Jean-Daniel Fekete is a member of the Steering Committee of the EuroVis Conference
- Tobias Isenberg is a member of the Steering Committee of the Expressive conference.
- Tobias Isenberg is a Member of the Executive Committee of the Visualization and Computer Graphics Technical Committee of the IEEE Computer Society (Publications Chair).

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Aviz members were involved in teaching the following lectures at the Masters or PhD level:

Jean-Daniel Fekete: *Information Visualization*, course on Interaction, 2h, Harvard, USA

Jean-Daniel Fekete: *Information Visualization*, course on Interaction, 2h, NYU-Poly, USA

Petra Isenberg, Pierre Dragicevic, *Visual Analytics*, Ecole Centrale, Paris, France

Pierre Dragicevic, Jean-Daniel Fekete, Lonni Besançon, Nadia Boukhelifa, Tobias Isenberg, *Information Visualization*, Université Paris Sud, France

Tobias Isenberg, *Non-Photorealistic Rendering*, University of Granada, Spain

Tobias Isenberg, *Interaction with 3D visualizations*, Tobias Isenberg at the CANVAS summer school in data analytics, visual analytics, and visualization in Toronto, Canada

Romain di Vozzo: *Digital Fabrication* 24h, HCID Master, Université Paris Sud, France

Aviz members were involved in teaching the following tutorials at international scientific conferences to students, data analysis specialists, and academics:

Tutorial on *Tools & Techniques for Direct Volume Interaction* co-taught by Tobias Isenberg at IEEE Visualization 2015

Tutorial on *Tools & Techniques for Direct Volume Interaction* co-taught by Tobias Isenberg at Eurographics 2015

9.2.2. Supervision

PhD in progress: Lonni Besançon, An Interaction Continuum for Scientific Visualization, Université Paris-Sud, 2014, Tobias Isenberg and Mehdi Ammi

PhD in progress: Evanthia Dimara, Information Visualization for Decision Making, Université Paris-Sud, 2014, Pierre Dragicevic, Anastasia Bezerianos and Jean-Daniel Fekete

PhD in progress: Pascal Goffin, From Individual to Collaborative Work, Université Paris-Sud, 2013, Petra Isenberg and Jean-Daniel Fekete

PhD in progress: Mathieu Le Goc, Dynamic and Interactive Physical Visualization, Université Paris-Sud, 2013, Pierre Dragicevic and Jean-Daniel Fekete

9.2.3. Juries

Jean-Daniel Fekete: PhD committee of Jorge Poco Medina, "Visual Intercomparison of Multifaceted Climate Data", NYU-Poly, June 2015

Jean-Daniel Fekete: Nivan Ferreira, "Visual Analytics Techniques For Exploration Of Spatiotemporal Data", NYU-Poly, June 2015

PhD committee: Dr. Emmanuel Iarussi, Computer-Assisted Drawing, Inria Sophia Antipolis, France, September 2015, Tobias Isenberg

PhD committee: Dr. Leïla Schemali, Édition et Visualisation Stéréoscopiques [Interaction with, Editing of, and Visualization of Stereoscopic 3D Objects], Telecom ParisTech, France, January 2015, Tobias Isenberg

Pierre Dragicevic: Commission Scientifique Inria Saclay

Pierre Dragicevic: Commission Consultative de Spécialistes de l'Université Paris-Sud (CCSU)

Pierre Dragicevic: Jury MCF UPSud 0274

Pierre Dragicevic: PhD committee of Bin Yang, Memory island: visualizing hierarchical knowledge as insightful islands, Université Pierre et Marie Curie, 8 June 2015.

Pierre Dragicevic: PhD committee of Azam Khan, Choice & Consequence: Exploratory Data Analysis for Critical Decision Making, University of Copenhagen, 14 Aug 2015.

Pierre Dragicevic: PhD committee of Renaud Gervais, Interaction and introspection with tangible augmented objects, Université de Bordeaux, 9 Dec 2015.

Romain di Vozzo: Fablab projects evaluation. Master Innovation Technologique & Entrepreneuriat. Ecole Polytechnique.

9.3. Popularization

Aviz members have been involved in several popularization activities:

- Romain di Vozzo: invitation of Richard Stallman to give a Digiteo conference on Free Software.
- Jeremy Boy wrote a chapter for “Le kit Serie graphique : Connaître et pratiquer le design graphique au collège” published by Le Centre National des Arts Plastiques (CNAP) .
- Jeremy Boy’s *Is the World a Better Place Today* online visualization platform was mentioned in Le Monde <http://data.blog.lemonde.fr/2015/10/21/la-journee-de-la-statistique-un-evenement-francais-pas-celebre-en-france/>
- Jeremy Boy gave an interview on his *Is the World a Better Place Today* online visualization platform to the NYU News and Publications Department <http://engineering.nyu.edu/news/2015/11/23/when-united-nations-puts-call-out-data-pros>
- Mathieu Le Goc, Pierre Dragicevic, Samuel Huron, Jeremy Boy, Jean-Daniel Fekete: [SmartTokens: Embedding Motion and Grip Sensing in Small Tangible Objects - Extended Material](#).
- Pierre Dragicevic and Yvonne Jansen: the [Curated List of Physical Visualizations](#) is continuously being updated.

EX-SITU Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. Member of the organizing committees

- Paper Electronics Workshop, February 2015: Wendy Mackay (organizer)
- MIDWAY Workshop, May 2015: Michel Beaudouin-Lafon, Wendy Mackay, Joe Malloch (co-organizers)
- MOCO 2015, *International Workshop on Movement and Computing*: Sarah Fdili Alaoui (organizing committee)
- Workshop on *Supporting Creative Design Processes in Blended Interaction Spaces* at ACM Creativity and Cognition 2015: Wendy Mackay (organizing committee)

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- ACM CHI 2015, *ACM Conference on Human Factors in Computing*: Wendy Mackay, Theophanis Tsandilas
- ACM UIST 2015, *ACM Symposium on User Interface Software and Technology*: Michel Beaudouin-Lafon, Wendy Mackay
- NIME 2015, *New interfaces for Musical Expression*: Theophanis Tsandilas, Sarah Fdili Alaoui
- CMIS 2015, *Workshop on Collaboration Meets Interactive Surfaces*: Theophanis Tsandilas
- IHM 2015, *Conférence Francophone d'Interaction Homme-Machine*: Theophanis Tsandilas
- GRAPP 2015, *Conference on Computer Graphics Theory and Applications*: Cédric Fleury
- 3DCVE 2015, *IEEE VR Workshop on Collaborative Virtual Environments*: Cédric Fleury
- MOCO 2015, *International Workshop on Movement and Computing*: Michel Beaudouin-Lafon, Sarah Fdili Alaoui

10.1.2.2. Reviewer

- ACM CHI 2016 *ACM Conference on Human Factors in Computing*: Michel Beaudouin-Lafon, Cédric Fleury, Sarah Fdili Alaoui, Joseph Malloch, Ignacio Avellino, Ghita Jalal, Nolwenn Maudet, Carla Griggio, Germán Leiva, Jessalyn Alvina, Sarah Alaoui, Joseph Malloch, Alex Zinenko
- ACM UIST 2015 *ACM Symposium on User Interface Software and Technology*: Theophanis Tsandilas, Cédric Fleury, Ignacio Avellino
- ACM TEI 2016 *ACM Conference on Tangible Embodied Interaction*: Sarah Fdili Alaoui
- IEEE InfoVis 2015, *IEEE Information Visualization Conference*: Theophanis Tsandilas
- GI 2015, *Graphics Interface Conference*: Theophanis Tsandilas
- UBICOMP 2015, *ACM International Joint Conference on Pervasive and Ubiquitous Computing*: Michel Beaudouin-Lafon
- IHM 2015, *Conférence Francophone d'Interaction Homme-Machine*: Cédric Fleury

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- Editor for the Human-Computer Interaction area of the new ACM Books Series (published with Morgan & Claypool Publishers): Michel Beaudouin-Lafon (2013-)
- CACM, *Communications of the ACM Web Editorial Board*, ACM: Wendy Mackay (2008-)
- CACM *Communications of the ACM New Publications Board*, ACM: Wendy Mackay (2015-)
- TOCHI, *Transactions on Computer Human Interaction*, ACM: Michel Beaudouin-Lafon (2009-)
- JIPS, *Journal d'Interaction Personne-Système*, AFIHM: Michel Beaudouin-Lafon (2009-)
- IJHCS, *International Journal of Human-Computer Study*, Elsevier: Michel Beaudouin-Lafon (Member of the Advisory Board, 2009-)
- JCSCW, *Journal of Computer Supported Cooperative Work*, Springer: Michel Beaudouin-Lafon (Member of the Advisory Board, 2010-)

10.1.3.2. Reviewer - Reviewing activities

- Transactions on Visualization and Computer Graphics (TVCG): Theophanis Tsandilas
- Transactions on Computer-Human Interaction (TOCHI): Wendy Mackay
- Ubiquitous Computing (UbiComp'15): Wendy Mackay
- International Journal of Human-Machine Studies (IJHMS): Wendy Mackay

10.1.4. Invited talks

- Keynote address at ACM/TEI'15 (Tangible, Embedded and Embodied Interaction) *Interactive Paper: Tangible Computing from the Digital Desk to Music Composition* 19 January 2015: Wendy Mackay
- Keynote address at LTM21C (Learning and Teaching Music in the Twenty-First Century: The Contribution of Science and Technology) *Supporting Creative Expression with Co-Adaptive Human-Computer Partnerships* 5 November 2015: Wendy Mackay
- Keynote address at Paper Electronics Workshop *Interactive Paper: A Whirlwind Tour of Tangible Computing from the Digital Desk to Music Composition* 20 February 2015: Wendy Mackay
- Research Seminar at University of Munich *Interactive Paper: Tangible Computing from the Digital Desk to Music Composition* 8 July 2015: Wendy Mackay
- Research Seminar at KTH, Sweden *Interactive Paper: Tangible Computing from the Digital Desk to Music Composition* 30 January 2015: Wendy Mackay
- Microsoft Faculty Summit *Dynachord* July 08 2015: Jianqiao Li
- GT Interco3D @ IHM 2015, "*Perception spatiale dans des systèmes de téléprésence adaptés à des murs d'images*", 27 October 2015: Cédric Fleury
- Microsoft Research - Devices and Networking Summit - 11-13 May 2015, Paris - panel The Next Big Hurdle, "*The myth of perfection*": Michel Beaudouin-Lafon
- NCRS-CNRS Korean-French workshop - 30 June 2015, "*Human-Computer Interaction*": Michel Beaudouin-Lafon
- CNRS workshop "Sciences Sociales et Cognitives du Comportement" - 16 July 2015, "*Interaction Humain-Machine et Sciences du Comportement*": Michel Beaudouin-Lafon
- TedX Leuven, "*Instrumented Bodies: Designing Interfaces for Digital Performance*", 20 February 2015: Joseph Malloch
- Centre National de la Danse, "*Rencontre entre notateurs*", 2 December 2015: Sarah Fdili Alaoui
- Inria Lille, "*Interaction Beyond Computation*", 16 October 2015: Michel Beaudouin-Lafon
- Inria Lille, "*Sketch-based interaction for creative exploration*", 11 March 2015: Theophanis Tsandilas
- Journées Scientifiques Inria, InriART, "*Supporting Computer-Aided Composition with Interaction on Paper*", 17 Juin 2015: Theophanis Tsandilas

- Université Paris Sud, “*la journée Sciences du Mouvement FEDEV*”, 27 Novembre 2015: Sarah Fdili Alaoui
- Inria Lille, “*Designing Interfaces for Digital Performance*”, 15 July 2015: Joseph Malloch
- Inria Lille, “*Interactive Systems for Music and Dance Performance*”, 7 December 2015: Joseph Malloch

10.1.5. Leadership within the scientific community

- Digiscope “Equipement d’Excellence”: Michel Beaudouin-Lafon (Scientific director)
- Doctoral School in Computer Science (EDSTIC), Université Paris-Saclay: Michel Beaudouin-Lafon (co-director, Data, Knowledge, Learning & Interaction section)
- DigiCosme “Laboratoire d’Excellence”: Michel Beaudouin-Lafon (chair of theme Interaction-Visualization and member of scientific committee)

10.1.6. Scientific expertise

- European Research Council (ERC), Avanced Grants Expert Panel: Michel Beaudouin-Lafon (external expert)
- FWF (Austrian Science Fund): Wendy Mackay (external expert)
- Sapere Aude Starting Grant, Danish Council for Independent Research, International Advisory Board: Wendy Mackay (external expert)
- Agence Nationale de la Recherche (ANR), appel à projets génériques “IHM, Contenus, Connaissances, Big Data, simulation, HPC”: Cédric Fleury (reviewer), Theophanis Tsandilas (reviewer)
- CNRS Mission pour l’Interdisciplinarité, Action “Sciences Sociales et Cognitives des Comportements Collectifs”: Michel Beaudouin-Lafon (committee member)

10.1.7. Research administration

- Computer Science Department (“GT-STIC”), Université Paris-Saclay: Michel Beaudouin-Lafon (member of steering committee)
- “Institut de la Société Numérique”, IDEX Laboratory of Université Paris-Saclay: Michel Beaudouin-Lafon (member of steering committee)
- Telecom ParisTech: Michel Beaudouin-Lafon (member of research committee)
- IRCAM: Michel Beaudouin-Lafon (member of scientific committee)
- “Conseil de Laboratoire”, LRI: Wendy Mackay, Cédric Fleury (members)
- “Conseil Scientifique”, LRI: Michel Beaudouin-Lafon (member)
- CCSU, “Commission Consultative de Spécialistes de l’Université”, Computer Science department: Michel Beaudouin-Lafon, Wendy Mackay (members)

10.1.8. Professional service

- ACM SIGCHI Conference Management Committee: Wendy Mackay (member)
- ACM SIGCHI Lifetime Service Award Committee: Wendy Mackay (member)
- ACM nominating committee: Michel Beaudouin-Lafon (member)
- ACM Europe Council: Michel Beaudouin-Lafon (member)
- EUACM Steering Committee, policy office of ACM Europe Council: Michel Beaudouin-Lafon (member)
- AFIBM Working Group on Ethics: Wendy Mackay (chair)

10.2. Teaching - Supervision - Juries

10.2.1. Teaching administration

Interaction Specialty, Master in Computer Science, Univ. Paris-Sud & Université Paris-Saclay: Michel Beaudouin-Lafon (chair), Cédric Fleury (internships)

HCID Masters (EIT Digital European Master in Human-Computer Interaction and Design), Univ. Paris-Sud: Michel Beaudouin-Lafon (chair)

10.2.2. Teaching

Interaction & HCID Masters: Wendy Mackay, *Formation à la Recherche* 21 hrs, M2, Univ. Paris-Sud

Interaction & HCID Masters: Michel Beaudouin-Lafon, *Fundamentals of Human-Computer Interaction*, 21 hrs, M1/M2, Univ. Paris-Sud

Interaction & HCID Masters: Sarah Fdili Alaoui & Theophanis Tsandilas, *Programming of Interactive Systems*, 21 hrs, M1, Univ. Paris-Sud

Interaction & HCID Masters: Wendy Mackay, *Design of Interactive Systems*, 42 hrs, M1/M2, Univ. Paris-Sud

Interaction & HCID Masters: Wendy Mackay, *Business Development Lab* 21 hrs, M1, Univ. Paris-Sud

Interaction & HCID Masters: Joseph Malloch *Digital Fabrication*, 10 hrs, M1/M2, Univ. Paris-Sud

Interaction & HCID Masters: Michel Beaudouin-Lafon & Cédric Fleury, *Groupware and Collaborative Interaction*, 21 hrs, M1/M2, Univ. Paris-Sud

Interaction & HCID Masters: Sarah Fdili Alaoui, *Creative Design*, 21 hrs, M1/M2, Univ. Paris-Sud

Interaction & HCID Masters: Sarah Fdili Alaoui, *Design Project*, 15 hrs, M1/M2, Univ. Paris-Sud

Interaction & HCID Masters: Sarah Fdili Alaoui, *Gesture and Mobile Interaction*, 4 hrs, M1/M2, Univ. Paris-Sud

Polytech Fifth year: Cédric Fleury, *Réalité Virtuelle et Interaction*, 48 hrs, M2, Univ. Paris-Sud

Polytech Fifth year: Sarah Fdili Alaoui, *Informatique Graphique et visualisation*, 42 hrs, M2, Univ. Paris-Sud

Polytech Third year: Cédric Fleury, *Projet Java-Graphique-IHM*, 24 hrs, M1, Univ. Paris-Sud

Polytech First year: Cédric Fleury, *Introduction à l'Informatique*, 64 hrs, L1, Univ. Paris-Sud

10.2.3. Supervision

PhD students

PhD: Can Liu, *Collaborative Multiscale Navigation and Interaction*, Université Paris-Saclay, defended on 17 December 2015 [10]. Advisors: Michel Beaudouin-Lafon, Olivier Chapuis (LRI & Inria ILDA), Eric Lecolinet (Telecom ParisTech)

PhD in progress: Ghita Jalal, *Co-Adaptive Systems*, September 2013, Wendy Mackay

PhD in progress: Oleksandr Zinenko, *Interactive Code Restructuring*, September 2013. Advisors: Stéphane Huot (Inria Lille) & Cédric Bastoul (Université de Strasbourg)

PhD in progress: Ignacio Avellino, *Remote Collaboration in Large Interactive Spaces*, September 2014. Advisors: Michel Beaudouin-Lafon & Cédric Fleury

PhD in progress: Jessalyn Alvina, *Mobile Co-Adaptive Instruments*, September 2014. Advisor: Wendy Mackay

PhD in progress: Nolwenn Maudet, *Substrates and Co-Adaptive Instruments*, September 2014. Advisors: Wendy Mackay & Michel Beaudouin-Lafon

PhD in progress: Marc-Emmanuel Perrin, *Novel Interaction Models for Multi-surface Visualization*, September 2014. Advisors: Michel Beaudouin-Lafon & James Eagan (Télécom ParisTech)

PhD in progress: Marianela Ciolfi Felice, *Substrates and Co-adaptive Instruments for Creativity*, September 2015. Advisors: Wendy Mackay & Sarah Fdili Alaoui

PhD in progress: Carla Griggio, *Interactive Human-Machine Learning*, September 2015. Advisor: Wendy Mackay

PhD in progress: Germán Leiva, *Interaction-driven Software Development*, September 2015. Advisor: Michel Beaudouin-Lafon

PhD in progress: Wanyu Liu, *Modeling the speed-accuracy trade-off of pointing tasks using the tools of information theory*, October 2015. Advisors: Olivier Rioul (Institut Mines Telecom) & Michel Beaudouin-Lafon

PhD in progress: Yujiro Okuya, *Sensorimotor interface for Collaborative Virtual Environments based on heterogeneous interactive devices: application to industrial design*, October 2015. Advisors: Patrick Bourdot (LIMSI-CNRS) & Cédric Fleury

PhD in progress: Michael Wessely, *Sketching and Physical Prototyping for Creative Fabrication Design*, November 2015. Advisors: Theophanis Tsandilas & Wendy Mackay

Masters students

Jean-Baptiste Louvet, Insa Rouen, “Touch-based Interaction Technique for 3D Manipulation on Wall-sized Displays”: Cédric Fleury

Niyati Roy Chowdhury, Univ. Paris-Sud, “Brain on the wall: An observational study with a novel brain image analysis tool, BrainTwister”: Wendy Mackay & Michel Beaudouin-Lafon

Panagiota Tziouva, Univ. Paris-Sud, “Bad Hacks and Good tricks: How professional designers appropriate creativity tools”: Wendy Mackay

Xu Yuebai, Univ. Paris-Sud, “Interactive Brain Visualization”: Michel Beaudouin-Lafon & Wendy Mackay

Maxence Bobin, Univ. Paris-Sud “Internet of Things for stroke rehabilitation in a home-based context”: Wendy Mackay (reviewer)

10.2.4. Juries

PhD committee of Carl Unanader-Sharin (KTH Royal Institute of Technology, January 2015, Stockholm, advisor: K. Hook): Wendy Mackay (Opponent examiner)

PhD committee of Jérémie Boy (Inria University Paris-Sud, May 2015, advisors: Françoise Detienne and Jean-Daniel Fekete): Wendy Mackay (President)

PhD committee of Olivier Perrotin (LIMSI, Sept 2015, advisor: Ch. d’Alessandro): Michel Beaudouin-Lafon (President).

PhD committee of Jonathan Aceituno (Inria Lille, Octobre 2015, advisor: Nicolas Roussel): Michel Beaudouin-Lafon (Reviewer).

PhD committee of William Delamare (LIG Grenoble, Nov. 2015, advisor: Laurence Nigay): Michel Beaudouin-Lafon (President).

PhD committee of Quentin Roy (Telecom ParisTech, Dec. 2015, advisor: Y. Guiard & E. Lecolinet): Michel Beaudouin-Lafon (President).

PhD committee of Weiya Chen (LIMSI, Dec. 2015, advisor: P. Bourdot): Michel Beaudouin-Lafon (President).

Hiring Committee for Professor position, Univ. Paris-Sud: Wendy Mackay (member)

Hiring Committee for Assistant Professor position, Univ. Paris-Sud: Wendy Mackay (member)

10.3. Popularization

BD Interactive: 2101 Sciences et science-fiction, Chromatiques (Web documentaire) April 2015: Wendy Mackay (interview) <http://www.chroma-tv.com>

Journée d'étude robots/travail/intelligence : La Chaire des Bernadins -- L'Humain au défi du numérique, FING, 8 Oct 2015 *Table Ronde: Les robots : substitution ou complément ?*: Wendy Mackay (panel member)

Lindau, Film on the Attractivity of Research in France, Ministère de Recherche, June 2015: Wendy Mackay (interview)

Ableton Loop Summit, 1 November 2015 *Panel: New Instruments and Evolving Performance Practices*: Joseph Malloch (panel member)

Fête de la Science, LRI, 9 October 2015, *Wilder*: Olivier Gladin, Rémi Hellequin, Amani Kooli, and Jonathan Thorpe

GRAPHDECO Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events selection

10.1.1.1. Member of the conference program committees

A. Bousseau served on the Eurographics 2015 international program committee and on the SIGGRAPH 2015 program committee. G. Drettakis served on the SIGGRAPH 2015, Eurographics Symposium on Rendering and Eurographics 2015 program committees.

10.1.2. Journal

10.1.2.1. Member of the editorial boards

G. Drettakis is an associate editor of the ACM Transactions on Graphics and the Computational Visual Media journal.

10.1.3. Invited talks

K. Vanhoey gave invited talks at Technische Universität Darmstadt (Darmstadt, Germany), Karlsruhe Institut für Technologie (Karlsruhe, Germany), laboratoire LIRIS (Lyon, France), and laboratoire I3S (Sophia-Antipolis, France). K. Vanhoey presented the project “Unifying Color and Texture Transfer for Predictive Appearance Manipulation” at the French workshop on Rendering (GT Rendu) in Paris.

10.1.4. Leadership within the scientific community

G. Drettakis chairs the Eurographics working group on Rendering and chairs the local “Jacques Morgenstern” Colloquium organizing committee.

10.1.5. Research administration

10.1.5.1. Reviewer - Reviewing activities

A. Bousseau and G. Drettakis were reviewers for several major conferences (Eurographics, SIGGRAPH Asia etc.). K. Vanhoey is a regular reviewer for the Computer and Graphics Journal.

10.1.5.2. Research Evaluation

G. Drettakis served as an evaluator for the KAUST Visual Computing Center and the EC Fet Open Call in November-December.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Masters II: G. Drettakis, A. Bousseau: Foundations of Image Synthesis, CentralSupélec, Paris, 28h.

Masters I: A. Bousseau, G. Drettakis: Image Synthesis International Masters I, University of Nice Sophia-Antipolis, 12h.

Masters I: G. Drettakis, A. Bousseau: Image Synthesis, Masters MAPI Cannes, University of Nice Sophia-Antipolis, 12h.

Bachelors (Licence): A. Djelouah; Teaching assistant for the course of computer science at the university of Nice.

Bachelors (Licence): J. Delanoy; Teaching assistant for the course of databases and supervisor of student projects at IUT - University Nice Sophia-Antipolis.

Bachelors (Licence) K. Vanhoey teaches the Programming course (C language) in 3rd year of the “Electronics” department of Polytech Nice Sophia-Antipolis (32h).

10.2.2. Supervision

- PhD defended: Sylvain Duchêne, Computer Drawing Tools for Assisting Learners, Hobbyists, and Professionals , University Nice Sophia Antipolis, since October 2012 (defended May 2015), Advisor: George Drettakis, Co-advisor: A. Bousseau.
- PhD defended: Emmanuel Iarussi, Computer Drawing Tools for Assisting Learners, Hobbyists, and Professionals , University Nice Sophia Antipolis, since October 2012 (defended September 2015), Advisor: George Drettakis, Co-advisor: A. Bousseau
- PhD in progress: Rodrigo Ortiz-Cayon, Advisor: G. Drettakis. Started December 2013 (CR-PLAY)
- PhD in progress: Johanna Delanoy, Advisor: A. Bousseau. Started October 2015 (Inria)
- PhD in progress: Théo Thonat, Advisor: G. Drettakis. Started October 2015 (Region and SEMAPO-LIS)
- HDR defended: Adrien Bousseau, Depicting shape, materials and lighting: observation, formulation and implementation of artistic principles , University Nice Sophia Antipolis, defended September 2015

10.2.3. Juries

G. Drettakis was a member of the thesis committee for A. Djelouah (Inria Grenoble) in March, for S. Pujades (Inria Grenoble) in September, and external examiner for the Ph.D. of J. Imber (Surrey) in November.

10.3. Popularization

Adrien Bousseau presented his work on sketch-based modeling as an invited seminar in the course of Marie-Paule Cani at Collège de France. Our work with the Institut Claude Pompidou was featured in a news article in the eldiario.es online magazine. GRAPHDECO was presented in the Inria Sophia-Antipolis internal letter in November.

HYBRID Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- Bruno Arnaldi was Chair of "Journées de l'AFRV" 2015, Bordeaux, France.

10.1.1.2. Member of the organizing committees

- Bruno Arnaldi was Supporters Chair of IEEE Virtual Reality 2015.
- Ferran Arguelaguet was Research Demos Chair of IEEE Virtual Reality 2015.
- Florian Nouviale was Exhibit Chair of IEEE Virtual Reality 2015.
- Maud Marchal was Research Demos Chair of IEEE Virtual Reality 2015.

10.1.2. Scientific events selection

10.1.2.1. Chair of the conference program committees

- Anatole Lécuyer was Program Chair of IEEE Virtual Reality 2015.

10.1.2.2. Member of the conference program committees

- Bruno Arnaldi was Member of the conference program committee of IEEE Virtual Reality 2015 and Motion in Game 2015.
- Ferran Arguelaguet was Member of the conference program committee of IEEE Virtual Reality 2015, IEEE Symposium on 3D User Interfaces 2015, ACM Virtual Reality Software and Technology 2015, and ACM Symposium on Spatial User Interfaces 2015.
- Maud Marchal was Member of the conference program committee of IEEE Symposium on 3D User Interfaces 2015, ACM Symposium on Virtual Reality Software and Technology 2015.
- Valérie Gouranton was Member of the program committee of 3DCVE Workshop 2015.

10.1.2.3. Reviewer

- Bruno Arnaldi was Reviewer for Motion in Game 2015.
- Ferran Arguelaguet was Reviewer for ACM CHI 2015.
- Maud Marchal was Reviewer for IEEE Virtual Reality 2015, IEEE Symposium on 3D User Interfaces 2015, Worldhaptics 2015, ACM VRST 2015, ACM CHI 2015, ACM MIG 2015, IHM 2015.
- Valérie Gouranton was Reviewer for IEEE Virtual Reality 2015.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- Anatole Lécuyer is Associate Editor of Frontiers in Virtual Environments, and Presence:Teleoperators and Virtual Environments.
- Ferran Arguelaguet is Review Editor of Frontiers in Virtual Environments.
- Maud Marchal is Associate Editor of Computer Graphics Forum, Review Editor of Frontiers in Virtual Environments, and Member of the Editorial Board of Revue Francophone d'Informatique Graphique.

10.1.3.2. Reviewer - Reviewing activities

- Ferran Arguelaguet was Reviewer for IEEE Transactions on Visualization and Computer Graphics.
- Maud Marchal was Reviewer for IEEE Transactions on Visualization and Computer Graphics, IEEE Transactions on Haptics, IEEE Transactions on Automation Science and Engineering, SMC Magazine, Presence, Medical Image Analysis.
- Valérie Gouranton was Reviewer for Revue d'Intelligence Artificielle.

10.1.4. Invited talks

- Maud Marchal was invited at Journées Jeunes Chercheurs de l'Association Française en Informatique Graphique 2015.

10.1.5. Leadership within the scientific community

- Bruno Arnaldi is Vice-President of AFRV (French Association for Virtual Reality).
- Valérie Gouranton is Member of Executive Committee of AFRV.

10.1.6. Scientific expertise

- Valérie Gouranton was Expert for French ANR (Agence Nationale de la Recherche).

10.1.7. Research administration

- Bruno Arnaldi is Deputy Director of IRISA and Vice-President of Scientific Committee of INSA de Rennes
- Maud Marchal is Co-Head of MRI Master Research in Computer Science since August 2015.
- Valérie Gouranton was Co-Head of MRI Master Research in Computer Science until August 2015.

10.2. Teaching - Supervision - Juries

Anatole Lécuyer:

Master MNRV: "Haptic Interaction", 9h, M2, ENSAM, Laval, FR

Ecole Centrale de Nantes : "Haptic Interaction and Brain-Computer Interfaces", 4,5h, M1-M2, Ecole Centrale de Nantes, FR

Master SIBM: "Haptic and Brain-Computer Interfaces", 4,5h, M2, University of Rennes 1, FR

Bruno Arnaldi:

Master INSA Rennes: "VAR: Virtual and Augmented Reality", 12h, M2, INSA Rennes, FR

Master INSA Rennes: "Virtual Reality", 6h, M2, INSA Rennes, FR

Master INSA Rennes: Projects on "Virtual Reality", 20h, M1, INSA Rennes, FR

Ferran Argelaguet:

Master STS Informatique MITIC: "Techniques d'Interaction Avancées", 26h, M2, ISTIC, University of Rennes 1, FR

Maud Marchal:

Master INSA Rennes: "Modeling and Engineering for Biology and Health Applications", 48h, M2 and responsible of this lecture, INSA Rennes, FR

Master SIBM: "Biomedical simulation", 3h, M2, University of Rennes 1, FR

Valérie Gouranton:

Licence: "Introduction to Virtual Reality", 12h, L2 and responsible of this lecture, INSA Rennes, FR

Licence: Project on "Virtual Reality", 16h, L3 and responsible of this lecture, INSA Rennes, FR

Master INSA Rennes: "Virtual Reality", 16h, M2, INSA Rennes, FR

Master INSA Rennes: Projects on "Virtual Reality", 30h, M1, INSA Rennes, FR

10.2.1. Supervision

PhD : Merwan Achibet, "Contributions to the Design of Novel Hand-Based Interaction Techniques for Virtual Environments", INSA Rennes, December 14th, Supervised by M. Marchal and A. Lécuyer

PhD : Jonathan Mercier, "Contribution to the Study of the Use of Brain-Computer Interfaces in Virtual and Augmented Reality", INSA Rennes, October 12th 2015, Supervised by M. Marchal and A. Lécuyer

PhD in progress: Jean-Baptiste Barreau, "Virtual Reality and Archaeology", Started in February 2014, Supervised by V. Gouranton and B. Arnaldi

PhD in progress: Benoit Le Gouis, "Multi-scale physical simulation", Started in October 2014, Supervised by B. Arnaldi, M. Marchal and A. Lécuyer

PhD in progress: Lorraine Perronet, "Neurofeedback applications based on EEG, fMRI and VR", Started in January 2014, Supervised by C. Barillot and A. Lécuyer

PhD in progress: Jérémy Lacoche, "Plasticity for user interfaces in mixed reality", Started in September 2013 at b<>com Research Institute, Supervised by T. Duval, B. Arnaldi, É. Maisel and J. Royan

PhD in progress: Morgan Le Chénéchal, "Activity and perception for distant collaboration in virtual environments", Started in September 2013 at b<>com Research Institute, Supervised by B. Arnaldi, T. Duval, V. Gouranton and J. Royan

PhD in progress: Lucas Royer, "Visualization tools for needle insertion in interventional radiology", Started in September 2013 at b<>com Research Institute, Supervised by A. Krupa, M. Marchal and G. Dardenne

PhD in progress: Andéol Evain, "BCI-based Interaction", Started in September 2013, Supervised by N. Roussel, G. Casiez, F. Argelaguet and A. Lécuyer

PhD in progress: Guillaume Claude, "Synthesis and Simulation of Process Models ", Started in September 2013, Supervised by V. Gouranton and B. Arnaldi

PhD in progress: François Lehericey, "Collision Detection HPC", Started in October 2013, Supervised by V. Gouranton and B. Arnaldi

PhD in progress: Gwendal Le Moulec, "Automatic generation of VR applications", Started in October 2015, Supervised by V. Gouranton, B. Arnaldi and A. Blouin (Team Diverse)

PhD in progress: Anne-Solène Dris-Kerdreux, "Training in virtual reality for construction applications", Started in November 2015, Supervised by V. Gouranton and B. Arnaldi

PhD in progress: Antoine Costes, "Haptic texturing", Started in November 2015, Supervised by A. Lécuyer and F. Argelaguet

PhD in progress: Guillaume Cortes, "Improving tracking in VR", Started in November 2015, Supervised by A. Lécuyer

10.2.2. Juries

10.2.2.1. Selection committees

- Bruno Arnaldi was President of Selection committee of Full-time Professor Position at University of Rennes 1 (ISTIC) and Member of Selection committee of Full-time Professor Position at University of Rennes 1 (ENSSAT) and and Member of Selection committee of Full-time Professor Position at Ecole Normale Supérieure de Rennes.
- Maud Marchal was Member of Selection committee of Research Scientist (CR2 and CR1) Inria Nancy.

10.2.2.2. PhD and HDR juries

- Anatole Lécuyer was Member of PhD juries of Merwan Achibet (INSA de Rennes), Jonathan Mercier (INSA de Rennes), Lucile Dupin (Univ. Paris 5), Jérémy Frey (Univ. Bordeaux), Toinon Vigier (Ecole Centrale de Nantes), and Member of HDR committee of Reinhold Scherer (TU Graz, Austria).
- Bruno Arnaldi was President of PhD juries of Merwan Achibet (INSA de Rennes), Jonathan Mercier (INSA de Rennes), Kevin Jordao (INSA de Rennes), Karl Jorgensen (University of Rennes 1), Steve Tonneau (INSA de Rennes) and Member of PhD jury of Mukesh Barange (ENIB Brest), Siju WU (Evry University)
- Maud Marchal was Member of PhD juries of Merwan Achibet (INSA de Rennes), Julien Bosman (Univ. Lille 1), Jonathan Mercier (INSA de Rennes), Alvaro Perez (Univ. Rey Juan Carlos, Madrid, Spain).

10.3. Popularization

The team has participated to numerous events in 2015 :

- "Futur en Seine 2015" (Paris, 05/15) : booth and demo of the PREVIZ project results.
- "Festival de la Science 2015" (Rennes, 10/15) : booth and demos of the team.
- "Journées Science et Musique 2015" (Rennes, 11/15) : co-organization of this event, and presentation of several demos.
- Technoférence du Pôle Images et Réseaux (Rennes, 02/15) : presentation from Anatole Lécuyer on VR.

The results of the team were also disseminated in several TV appearances and media coverages :

- « Télématin », France2 channel (02/15) : presentation of the Mind-Mirror system.
- « On est pas que des cobayes », France 3 channel (04/15) : presentation and testings of the FlyVIZ system.
- « E=M6 », M6 channel (05/15) : presentation and testing of the Mind-Mirror system.
- « Thalassa », France3 channel (05/15) : presentation of several cultural heritage applications of Hybrid.
- « Future Mag », Arte channel (12/15) : presentation of several cultural heritage applications of Hybrid.

ILDA Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events selection

9.1.1.1. Chair of conference program committees

- CHI 2015, 33rd ACM SIGCHI Conference on Human Factors in Computing Systems: Caroline Appert (SC - subcommittee chair)

9.1.1.2. Member of the conference program committees

- CHI 2015, 33rd ACM SIGCHI Conference on Human Factors in Computing Systems: Anastasia Bezerianos, Emmanuel Pietriga (AC - associate chairs)
- VL/HCC 2015, 32nd IEEE Symposium on Visual Languages and Human-Centric Computing: Emmanuel Pietriga
- InfoVis 2015, IEEE Information Visualization Conference: Anastasia Bezerianos (AC - associate chair)
- Mobile HCI 2015, 17th ACM SIGCHI International Conference on Human-Computer Interaction with Mobile Devices and Services: Caroline Appert (AC - associate chair)
- DocEng 2015, 15th ACM SIGWEB International Symposium on Document Engineering: Emmanuel Pietriga
- MobiSys 2015 – Future Mobile User Interfaces workshop, 13th ACM SIGCHI International Conference on Mobile Systems, Applications, and Services: Caroline Appert
- VOILA @ ISWC 2015, Visualizations and User Interfaces for Ontologies and Linked Data, workshop co-located with ISWC 2015: Emmanuel Pietriga
- IHM 2015 – Conference of the Association Francophone d’Interaction Homme-Machine: Olivier Chapuis (AC - associate chair)

9.1.1.3. Reviewer

- ACM CHI, Conference on Human Factors in Computing Systems: Olivier Chapuis
- ACM UIST, Symposium on User Interface Software and Technology: Caroline Appert, Anastasia Bezerianos, Olivier Chapuis, Emmanuel Pietriga
- ACM ITS, International Conference on Interactive Tabletops and Surfaces: Caroline Appert, Anastasia Bezerianos, Olivier Chapuis
- ACM Mobile HCI, International Conference on Human-Computer Interaction with Mobile Devices and Services: Anastasia Bezerianos
- ACM UbiComp, International Joint Conference on Pervasive and Ubiquitous Computing: Anastasia Bezerianos
- IEEE InfoVis, Information Visualization Conference: Emmanuel Pietriga
- IEEE Virtual Reality: Olivier Chapuis
- GI, International conference on Graphics, Visualization and Human-Computer Interaction: Anastasia Bezerianos
- IHM, Conférence Francophone sur l’interaction Homme-Machine: Caroline Appert

9.1.2. Journal

9.1.2.1. Member of the editorial boards

- Semantic Web Journal: Emmanuel Pietriga (guest editor, special issue on Visual Exploration and Analysis of Linked Data)

9.1.2.2. Reviewer - Reviewing activities

- ACM ToCHI, Transactions on Computer-Human Interaction: Caroline Appert, Olivier Chapuis, Emmanuel Pietriga
- IEEE TVCG, Transactions on Visualization and Computer Graphics: Anastasia Bezerianos, Emmanuel Pietriga
- IWC, Interacting with Computers: Emmanuel Pietriga
- IHCS International Journal of Human-Computer Studies: Olivier Chapuis
- IEEE CG&A, Computer Graphics and Applications: Anastasia Bezerianos

9.1.3. Invited talks

- Emmanuel Pietriga, Advances in Human-Computer Interaction for Operations Monitoring and Control and Exploratory Data Analysis, III Taller Astroingeniería, November 2015, Santiago de Chile
- Emmanuel Pietriga, Interactive, collaborative visualization of large datasets on ultra-high-resolution wall-sized displays, March 2015, Viseo, Grenoble, France

9.1.4. Scientific expertise

- Evaluator for European Commission's H2020 Programme Future and Emerging Technologies Open Scheme RIA: Emmanuel Pietriga
- Evaluation Committee member for the appel générique, ANR (French National Research Agency), CES Contenus, connaissances, interactions: Caroline Appert
- Referee for the appel générique, ANR (French National Research Agency): Emmanuel Pietriga

9.1.5. Research administration

Hiring committees

- Univ. Paris-Sud hiring committee, Commission Consultative des Spécialistes de l'Université 27ème section (computer science), members: Caroline Appert.
- Univ. Paris-Sud hiring committee, Comités de Sélection 27ème section (computer science), members: Caroline Appert, Anastasia Bezerianos.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Master: Caroline Appert, Design Project in HCI, 25h TD, M1 HCID, Univ. Paris-Sud

Master: Caroline Appert, Evaluation of Interactive Systems, 48h CM, M1 HCID, Univ. Paris-Sud

Master: Caroline Appert, Evaluation of Interactive Systems – Intro, 21h CM, M1 HCID + M2R Interaction, Univ. Paris-Sud

Master: Caroline Appert, Programming Interactive Systems, 3h CM, M1 HCID + M2R Interaction, Univ. Paris-Sud

Master: Anastasia Bezerianos, Mixed Reality and Tangible Interaction, 11h CM, M2R Interaction + M1 HCID + M2 HCID, Univ. Paris-Sud.

Master: María-Jesús Lobo, Programming Project, 11h, M1 HCID, Univ. Paris-Sud.

Master: Emmanuel Pietriga, Data Visualization, 24h CM, M2 Informatique Décisionnelle, Univ. Paris-Dauphine.

Licence: Bruno Fruchard, Initiation à la Programmation Orientée Objet (Java) - 13h - Télécom Paristech.

Licence: Bruno Fruchard, Paradigmes de programmation - 3h - Télécom Paristech.

Licence: María-Jesús Lobo, Informatique Graphique, 28h, L3 Univ. Paris-Sud

Licence: María-Jesús Lobo, Programmation d'Interfaces Interactives avancées, 29h, L3 Univ. Paris-Sud

Licence: Arnaud Prouzeau, Interaction Homme-Machine - 12h - Polytech Paris-Sud.

Licence: Arnaud Prouzeau, Projet de Programmation Concurrentielle et Interfaces Interactives - 25h - L3 Université Paris-Sud.

Licence: Olivier Chapuis, Interaction Homme-Machine - 12h - Polytech Paris-Sud.

9.2.2. Supervision

PhD : Can Liu, Embodied Interaction for Data Manipulation Tasks on a Wall-Sized Display, Université Paris-Sud, Dec 17th, 2015: Advisors: Olivier Chapuis, Michel Beaudouin-Lafon, Eric Lecolinet

PhD in progress : María-Jesús Lobo, Interaction Techniques for Map Multiplexing, since October 2014, Advisors: Caroline Appert, Emmanuel Pietriga

PhD in progress : Rafael Morales Gonzalez, Surface Gestures for Advanced Graphical Interfaces: Which Gesture for What, November 2014, Advisors: Caroline Appert, Gilles Bailly, Emmanuel Pietriga

PhD in progress : Arnaud Prouzeau, Collaboration around Wall-Displays in Time Critical and Command and Control Contexts, since October 2014, Advisors: Anastasia Bezerianos, Olivier Chapuis

PhD in progress : Evanthia Dimara, Merging Interactive Visualization and Automated Analysis for Group Decision-Making Involving Large Datasets, October 2014, Advisors: Pierre Dragicevic, Anastasia Bezerianos

PhD in progress : Bruno Fruchard, Techniques d'interaction exploitant la mémoire spatiale pour faciliter l'accès rapide aux commandes et aux données, October 2015, Advisors: Eric Lecolinet, Olivier Chapuis

9.3. Popularization

- Publication in Bits de Ciencia about our research and development activities on wall-sized displays [18].
- *Antenna Dance at ALMA* movie, in collaboration with Denis Barkats (ALMA). <http://almaobservatory.org/en/press-room/announcements-events/790-antenna-dance-at-alma>

IMAGINE Project-Team

8. Dissemination

8.1. Promoting Scientific Activities

8.1.1. Scientific events organisation

8.1.1.1. General chair, scientific chair

- Rémi Ronfard was co-chair of the second Eurographics workshop on « Intelligent Cinematography and Editing » (WICED), Lisbon, Portugal, May 2016 (with Marc Christie, Inria/MIMETIC and Quentin Galvane, Technicolor).
See <https://wiced.inria.fr/>.
- Co-chair of Computational Model of Narrative (CMN 2016) conference, Crakow, Poland, July 2016, with Mark Finlayson (Florida International University), Antonio Lieto (University of Torino) and Ben Miller (Georgia State University).
See <http://narrative.csail.mit.edu/cmnl6/>.

8.1.1.2. Member of the organizing committees

- Damien Rohmer was member of the organization committee for the Journées Informatiques et Géométrie (JIG) in November in Paris.
- Rémi Ronfard was member of the organization committee for the Workshop on Intelligent Narrative Technologies (INT), and International Conference on 3D Imaging (IC3D).

8.1.2. Scientific events selection

8.1.2.1. Chair of conference program committees

- Stefanie Hahmann is the program co-chair of the next SPM 2016 conference in Berlin.

8.1.2.2. Member of the conference program committees

- Marie-Paule Cani was in the International Program Committee for SMI 2015, Expressive 2015, MIG 2015, and is preparing for EUROGRAPHICS 2016.
- Stefanie Hahmann served in the International Program Committee for GD/SPM'15 SIAM Conf. on Geometric and Physical Modeling, Salt Lake City, CGI'15 Computer Graphics International, Strasbourg and EUROGRAPHICS 2016.
- Damien Rohmer was in the International Program Committee for EUROGRAPHICS Short paper, ACM SIGGRAPH Asia Technical Briefs and Posters. He was also member of the jury of the best paper for AFIG-EGFR.

8.1.2.3. Reviewer

- Damien Rohmer was reviewer for ACM SIGGRAPH and EUROGRAPHICS.
- Rémi Ronfard was reviewer for CVPR, CHI, and SIGGRAPH.

8.1.3. Journal

8.1.3.1. Member of the editorial boards

- Stefanie Hahmann is associate Editor of the Journal Computers and Graphics (Elsevier) since 2015 and co-editor of a special edition[36] of the journal Computer-Aided Design (CAD) on Geometric Modeling.

8.1.3.2. Reviewer - Reviewing activities

- Damien Rohmer was reviewer for ACM Transactions on Graphics, Computer Graphics Forum, and REFIG.

8.1.4. Invited talks

- In addition to holding the chair *Informatics and Computational sciences* at College de France, and giving 9 lectures there, Marie-Paule Cani gave the following invited talks :
- Stefanie Hahmann gave an invited talk at Universität Linz, Autriche, June 2015
 - ENS Lyon (Avril 2015),
 - Seminar *Jeudis de l'Imaginaire*, Télécom Paris-Tech (Avril 2015),
 - Seminar of the ICUBE laboratory, Strasbourg (Octobre 2015)
 - Seminar of the DI, ENS Paris, (October 2015)
 - Two invited conferences organized by the French Embassy in Tunisia, one open to the general public, and a specialized one for student and faculty members.
- Rémi Ronfard gave the following invited talk
 - Variations sur La Ronde with Adéla Barbuлесcu, Gérard Bailly, Georges Gagneré. Biennale Arts-Sciences, EXPERIMENTA, Grenoble, October 2015.
 - Mettre en scène les mondes virtuels, Séminaire Création et digital dans le spectacle vivant, Relais Culture Europe, Festival International de Théâtre, Avignon, July 2015.
 - Mettre en scène les mondes virtuels, Journées scientifiques Inria, June 2015.

8.1.5. Leadership within the scientific community

Marie-Paule Cani was

- At international level
 - Vice chair of the Eurographics association.
 - Chair of the steering committee of the Eurographics conference
 - Member of the awards committee of Eurographics
 - Member of the steering committees of the Expressive symposium and of the SMI conference
- And in France
 - Member of the scientifique council of the institute INSII of CNRS
 - Member of the scientifique council of the ESIEE engineering school Member of the executive board of the GDR IGVR of CNRS
 - Elected member of the executive board of EG-France

Stefanie Hahmann was

- Head of the french working group GT Modelisation Geometrique part of the GDR IGRV and GDR IM of CNRS.
- Member of the executive board of the GDR IGVR of CNRS.
- Member of the steering committee of annual international SPM conferences.
- Elected member of the international Executive Committee of the SMA – Solid Modeling Association since 2013.

Rémi Ronfard is

- Elected to the board of the French Chapter of Eurographics in 2015.
- Elected to the board of the French association for Computer Graphics (AFIG) in 2015.
- Part of the InriaRT open network of Inria researchers and teams working with IRCAM on Art/science projects, which also includes Arshia Cont (HYBRID), Laurent Grisoni (MINT), Pierre-Yves Oudeyer (FLOWERS) and Martin Hachet (POTIOC). The goal of the InriaRT network is to extend IRCAM's expertise in art & science beyond music, and to showcase Inria research work in art projects featured by IRCAM. A coordinated project for an interactive opera is currently being planned for production in 2017-2018.

8.1.6. Scientific expertise

- Marie-Paule Cani was reviewer of an ERC project.
- Stefanie Hahmann is member of the Advisory Board for the European Marie-Curie Training Network ARCADES, 2014-2018.
- Rémi Ronfard is a scientific expert for the European Commission, and was a reviewer for the final review of EC funded project IMP-ART (December 2015).

8.1.7. Research administration

- Marie-Paule Cani is at the head of the Imagine project-team.
- Rémi Ronfard is
 - Director of the « Geometry and Image » department of Laboratoire Jean Kuntzman, UMR CNRS 5224 , Grenoble University.
 - Project leader at Inria for ANR funded project SPECTACLENLIGNES (2013-2015) : The project ended in December 2014 and the main results were presented publicly at Centre Pompidou, Paris in February 2015 (see <http://spectacleenlignes.fr/>).
 - Project leader at Inria for national « investing in the future » project ACTION 3DS (2011-2014) : The project ended in September 2015 and the final review took place in October 2015 See <http://www.action3ds.com/fr/>.
 - Project leader at Inria for ANR-funded project CHROME (2012-2015) : The project ended in October 2015.
- Damien Rohmer was elected as a member of the Conseil d'Administration of the Association Française d'Informatique Graphique (AFIG).

8.2. Teaching - Supervision - Juries

8.2.1. Teaching

- Marie-Paule Cani is responsible for two courses at Ensimag/Grenoble-INP: 3D Graphics (a course that attracts about 80 master 1 students per year) and IRL (Introduction à la recherche en laboratoire), a course enabling engineering students to work on a personal project in a research lab during one semester, to get an idea of what academic research is.
- Stefanie Hahmann is co-responsible of the MMIS (Images and Applied Maths) (<http://ensimag.grenoble-inp.fr/cursus-ingenieur/modelisation-mathematique-images-simulation-124674.kjsp>) department at University ENSIMAG/Grenoble INP. Stefanie Hahmann is responsible of 3 courses at Ensimag/Grenoble INP: Numerical Methods (240 students, 3rd year Bachelor level), Geometric Modeling (60 students, Master 1st year) and Surface Modeling (30 students, Master 2nd year).
- Olivier Palombi is responsible of the French **Campus numérique** of anatomy. Olivier Palombi is responsible and national leader of the project SIDES (<http://side-sante.org/>). All the French medical schools (43) have planned to use the same e-learning framework (SIDES) to manage evaluations (exams) and to create a large shared database of questions.
- François Faure was responsible of the GVR-(Graphics, Vision and Robotic) program in the MOSIG Master.
- Damien Rohmer is coordinator of the Math, Signal, Image program at the engineering school CPE Lyon in supervising the scientific and technical content of the program. He is also co-responsible of the *Image, Modeling & Computing* specialization program attracting 35 students per year. He gives, and is responsible, for of one Computer Science class (130 student, 3rd year Bachelor level), an introductory Computer Graphics class (110 students, Master 1st year), and 5 specialization classes on C++ programming, OpenGL programming, 3D modeling, animation and rendering (35 students, Master 1st and 2nd year). Damien Rohmer also gave an invited course in Collegium Da Vinci, Poznan University on Computer Graphics (15 M1 students in Computer Game Programm) and a formation on the Python language to high school teachers starting the *Informatique et Sciences du Numérique* program.

- Rémi Ronfard taught courses in Advanced 3D animation, M2R MOSIG, University of Grenoble (12 hours) on advanced concepts in 3D character animation; Game Engine Programming, M2R IMAGINA, University of Montpellier (36 hours); Computer Vision Analysis of Actors and Actions in the I2S Doctoral School of Montpellier (3h). Rémi Ronfard also created a new introductory course in narratology for doctoral students in computer science: *Computational modeling of narrative texts, movies and games*, Grenoble University.

Note that MOSIG is joint master program between University Joseph Fourier (UJF) and Institut Polytechnique de Grenoble (INPG) taught in English since it hosts a number of internal students. It belongs to the doctoral school MSTII.

Most of the members of our team are Professor or Assistant Professor in University where the common teaching load is about 200h per year. Rémi Ronfard who is only researcher usually perform some teaching in vacations.

8.2.2. Supervision

PhD : Quentin Galvane, Automatic Cinematography and Editing in Virtual Environments, Grenoble Université, October 2015, Rémi Ronfard, Marc Christie (IRISA/Inria).

PhD : Adela Barbulescu, Directing virtual actors by interaction and mutual imitation, Grenoble Université, November 2015, Rémi Ronfard, Gérard Bailly (Gipsa-Lab).

PhD : Rémi Brouet, Multi-touch gesture interactions and deformable geometry for 3D edition on touch screen, Grenoble Université, March 2015, Marie-Paule Cani, Renaud Blanch (LIG).

PhD : Sergi Pujades Rocamora, Camera models and algorithms for creating stereoscopic 3-D video, Grenoble Université, March 2015, Rémi Ronfard, Frédéric Devernay (PRIMA).

PhD : Martin Guay, Sketching 3D Character Animation, Grenoble University, June 2015, Marie-Paule Cani, Rémi Ronfard.

PhD : Kevin Jordao, Crowd Sculpting, Rennes University, December 2015, Marie-Paule Cani, Julien Pettré (Inria Rennes).

PhD : Léo Allemand-Giorgis, Grenoble University, Reconstruction de surfaces à partir de complexes de Morse-Smale, S. Hahmann, GP. Bonneau

PhD : Richard Malgat, Computational modeling of internal mechanical properties of plant cells, Grenoble University, September 2015, Francois Faure, Arezki Boudaoud (RDP).

PhD in progress : Armelle Bauer, the Living Book of Anatomy, UJF, Francois Faure, Olivier Palombi.

PhD in progress : Guillaume Cordonnier, Design of Mountains, Grenoble University, Marie-Paule Cani, Eric Galin (LIRIS).

PhD in progress : Pablo Coves, From Point Cloud Data to Functional CAD Model, INP Grenoble, Jean-Claude Léon, Damien Rohmer, Raphaëlle Chaine (LIRIS).

PhD in progress : Even Entem, Animal sketching, INP Grenoble, Marie-Paule Cani,

PhD in progress : Geoffrey Guingo, Animated Textures, INP Grenoble, Marie-Paule Cani, Jean-Michel Dischler (ICUBE).

PhD in progress : Pierre-Luc Manteaux, Frame Based Simulation, Grenoble University, Francois Faure, Marie-Paule Cani.

PhD in progress : Aarohi Singh Johal, CAD construction graph generation from B-Rep model, Grenoble University and EDF, Jean-Claude Léon, Raphel Marc (EDF).

PhD in progress : Camille Schreck, Modélisation et déformation de formes actives, Grenoble University, Stefanie Hahmann, Damien Rohmer.

PhD in progress : Robin Roussel, Function-preserving editing, Grenoble University, Marie-Paule Cani, Jean-Claude Léon, Niloy Mitra.

PhD in progress : Tibor Stanko, Modélisation de surfaces lisses maillées à partir de capteurs inertiels, Grenoble University and CEA, Stefanie Hahmann, Georges-Pierre Bonneau (LJK/Inria-Morpheo), collaboration with Nathalie Seguin (CEA-Leti).

PhD in progress : Ulysse Vimont, Complex scene sculpture, Grenoble University, Marie-Paule Cani, Damien Rohmer.

8.3. Popularization

- The images of the flat torus rendered by Damien Rohmer within the collaboration with the HEVEA team were presented during the mathematical Abel Price ceremony in favor of John Nash.

8.4. Service to University

Stefanie Hahmann is responsible of *specialité Maths-Info* at the Grenoble Graduate School of Computer Science and Mathematics MSTII (with about 400 PhD students registered)

MANAO Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

Organization of Dagstuhl Seminar on “Computational Imaging”

10.1.1.2. Member of the organizing committees

Steering Board Eurographics Workshop on Graphics and Cultural Heritage

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

CCD 2015, CVPR 2015, Digital Heritage 2015, Eurographics 2016, Expressive 2015 (NPAR-SBIM-CAe), ICCP 2015, ICCV 2015, GMP 2016

10.1.2.2. Reviewer

ACM Siggraph 2015, ACM Siggraph Asia 2015, CCD 2015, CHI 2015 CVPR 2015, Eurographics 2016, Eurographics Symposium on Rendering 2015, ICCP 2015, ICCV 2015, Pacific Graphics 2015

10.1.3. Journal

10.1.3.1. Reviewer - Reviewing activities

SIAM Journal on Scientific Computing, OSA Journal of the Optical Society of America A, IEEE Transactions on Pattern Analysis and Machine Intelligence, ACM Transaction on Graphics, IEEE Transaction on Visualization and Computer , Computer Graphics Forum, Visual Computer, Graphics, GMOD

10.1.4. Invited talks

Journée de la Recherche en Robotique, Carl Zeiss Inc., RWTH Aachen, KAUST, Bordeaux University, Heidelberg University

FMX 2015 - Conference on Animation, Effects, Games and Transmedia www.fmx.de Stuttgart, Germany, Filmakademie Baden-Wuerttemberg [16]

10.1.5. Scientific expertise

DFG grant proposal, Schloss Dagstuhl seminar proposal

10.1.6. Research administration

Some members are part of: Committee of the Bordeaux Sud-Ouest Inria Center, Evaluation Committee of Inria, Scientific Council of the Image & Sound team at LaBRI.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

The members of our team are involved in teaching computer science at University of Bordeaux, ENSEIRB Engineering School, and Institut d'Optique Graduate School (IOGS). General computer science is concerned, as well as the following graphics related topics:

Master : Pierre Bénard and Romain Pacanowski, Photorealistic and Expressive Image Synthesis, 60 HETD, M2, Univ. Bdx, France.

Master : Xavier Granier, Numerical Techniques, 45 HETD, M1, IOGS, France

Master : Xavier Granier, Image Synthesis, 14 HETD, M2, IOGS, France

Master : Gaël Guennebaud, Geometric Modeling, 22 HETD, M2, IOGS, France

Master : Xavier Granier, Romain Pacanowski, Boris Raymond Brett Ridet, Algorithmic and Object Programming, 60 HETD, M1, IOGS, France

Master : Xavier Granier, Radiometry, 10 HETD, M1, IOGS, France

Master : Xavier Granier, Romain Pacanowski, Colorimetry and Appearance Modeling, 20 HETD, M1, IOGS, France.

Master : Gaël Guennebaud and Pierre Bénard, High-performance 3D Graphics, 60 HETD, M1, Univ. Bdx and IOGS, France.

Master : Pierre Bénard, Virtual Reality, 24 HETD, M2, Univ. Bdx, France.

Master : Ivo Ihrke, Computational Optical Imaging, 30 HETD, M1, IOGS, France

Master : Ivo Ihrke, Introduction to Image Processing, 30 HETD, M1, IOGS, France

Master : Ivo Ihrke, Advanced Display Technology, 12 HETD, M1, IOGS, France

Master : Christophe Schlick, Pierre Bénard, Image Synthesis, 60 HETD, M2, ENSEIRB, France

Licence : Patrick Reuter, Digital Imaging, 36 HETD, L3, Univ. Bdx, France.

Some members are also in charge of some fields of study:

Master : Xavier Granier, Optics and Computer Science, M1/M2, IOGS, France.

License : Patrick Reuter, Science and Modeling, L2, Univ. Bdx, France.

10.2.2. Supervision

PhD : Alkhazur Manakov, Calibration and Characterization of Advanced Image-Based Measurement Systems, Saarland University, I. Ihrke

PhD : Boris Raymond, Rendering and manipulation of anisotropic materials, Univ. Bordeaux, P. Barla & G. Guennebaud & X. Granier

PhD : John Restrepo, Plenoptic Imaging and Computational Image Quality Metrics, Univ. Bordeaux, I. Ihrke

PhD : Brett Ridet, Interactive spatial augmented reality, Univ. Bordeaux, P. Reuter & X. Granier

PhD : Carlos Zubiaga Pena, Image-space editing of appearance, Univ. Bordeaux, P. Barla & X. Granier

PhD : Florian Canezin, Implicit Modeling, Univ. Toulouse III, G. Guennebaud & Loïc Barthe

PhD : Mathieu Diawara, Computer-Assisted 2D Animation, Univ. Bordeaux, P. Barla, P. Bénard & X. Granier

PhD : Arthur Dufay, Adaptive high-quality of virtual environments with complex photometry, Univ. Bordeaux, J.-E. Marvie R. Pacanowski & X. Granier

PhD : Thibaud Lambert, Real-time rendering of highly detailed 3D models, Univ. Bordeaux, G. Guennebaud & P. Bénard

PhD : Loïs Mignard-Debize, Plenoptic function and its application to spatial augmented reality, Univ. Bordeaux, P. Reuter & I. Ihrke

PhD : Antoine Lucat, Appearance Acquisition and Rendering, CNRS (LP2N) & IOGS, R. Pacanowski & X. Granier

10.3. Popularization

February 2015: Journée numérique au Sénat on the showroom "Modèles 3D, réalité augmentée et sauvegarde du patrimoine", http://www.senat.fr/evenement/journee_numerique_inria.html.

MAVERICK Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events selection

9.1.1.1. Chair of conference program committees

- Eurographics 2015 Tutorials: Cyril Soler (co-chair)

9.1.1.2. Member of the conference program committees

- Eurographics 2015: Nicolas Holzschuch
- Eurographics Symposium on Rendering 2015: Nicolas Holzschuch, Cyril Soler
- Interactive 3D Graphics 2015: Nicolas Holzschuch
- Interactive 3D Graphics 2016: Nicolas Holzschuch
- Expressive 2015: Joëlle Thollot
- Solid and Physical Modeling 2015: Georges-Pierre Bonneau
- Eurographics VisSym Short Papers: Georges-Pierre Bonneau
- Environmental Visualization: Georges-Pierre Bonneau
- Topology in Visualization (workshop): Georges-Pierre Bonneau
- Jury du meilleur papier à l'AFIG: Romain Vergne

9.1.2. Research administration

- Nicolas Holzschuch is an elected member of Inria *Evaluation Committee*, a reserve member of Inria *Scientific Board* and of Inria *Comité Technique*.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Licence : Enseignant, titre du cours, nombre d'heures en équivalent TD, niveau (L1, L2, L3), université, pays

Licence: Joëlle Thollot, Théorie des langages, 27h, L3, ENSIMAG, France

Licence: Georges-Pierre Bonneau, Algorithmique, Polytech'Grenoble, France

Licence: Romain Vergne, Introduction à l'Algorithmique, 66.5, L1, Université de Grenoble, France

Licence: Romain Vergne, WebGL, 29, L3, IUT2 - Université de Grenoble, France

Master: Romain Vergne, Synthèse d'images, 32h, M1, Université de Grenoble, France

Master: Romain Vergne, Synthèse d'images avancée, 13.5h, M2, Université de Grenoble, France

Master: Romain Vergne, Reconstruction et géométrie algorithmique, 36h, M2, Université de Grenoble, France

Master: Georges-Pierre Bonneau, Synthèse d'Images, Polytech'Grenoble, France

Master: Georges-Pierre Bonneau, Visualisation Scientifique, Polytech'Grenoble, France

Master: Georges-Pierre Bonneau, Visualisation d'information, G-INP, France

Master: Georges-Pierre Bonneau, Scientific Visualization, G-INP, France

Master: Georges-Pierre Bonneau, Géométrie numérique, Université de Grenoble, France

Master: Georges-Pierre Bonneau et Nicolas Holzschuch, Computer Graphics II, 36 h, M2, Université de Grenoble, France

Master : Nicolas Holzschuch, Synthèse d'Images et Animation, 60 h, M2, ENSIMAG, France

Master: Joëlle Thollot, Responsable du cursus en alternance, 48h, M1-M2, ENSIMAG, France

Master: Joëlle Thollot, Tutorat d'apprentis, 70h, M1-M2, ENSIMAG, France

Master: Joëlle Thollot, Tutorat d'apprentis, 70h, M1-M2, ENSIMAG, France

Master: Romain Vergne, Responsable de stages, 27h, M1-M2, Polytech'Grenoble, France

Master: Romain Vergne, Tutorat, 16h; M1-M2, Polytech'Grenoble, France

9.2.2. Supervision

PhD: Hugo Loi, Synthèse programmable de textures vectorielles et application à la cartographie, Université de Grenoble, December 16, 2015, Joëlle Thollot, Romain Vergne, Thomas Hurtut.

PhD in progress: Leo Allemand-Giorgis, Visualisation de champs scalaires guidée par la topologie, October 1, 2012, Georges-Pierre Bonneau, Stefanie Hahmann.

PhD in progress: Benoit Arbelot, Statistical studies of shape, material, and environment for appearance manipulation, October 1, 2013, Joëlle Thollot, Romain Vergne.

PhD in progress: Alexandre Bleron, Stylization of animated 3D scenes in a painterly style, October 1, 2015, Joëlle Thollot, Romain Vergne.

PhD in progress: Alban Fichet, Efficient representation for measured reflectance, October 1, 2015, Nicolas Holzschuch.

PhD in progress: Aaroehi Johal, Algorithmes de génération automatique d'arbres de construction à partir de modèles géométriques CAO B-Rep, September 2013, Jean-Claude Léon, Georges-Pierre Bonneau, thèse CIFRE EdF R&D.

PhD in progress: Guillaume Loubet, Représentations efficaces de l'apparence sous-pixel, October 1, 2014, Fabrice Neyret.

PhD in progress: Jeremy Wambecke, Data Visualization for non-experts, October 1, 2014, Renaud Blanch, Georges-Pierre Bonneau, Romain Vergne.

PhD in progress: Benoit Zupancic, Acquisition of reflectance properties, October 1, 2014, Cyril Soler.

9.2.3. Juries

- Nicolas Holzschuch has been a member of the jury for the PhD of Jonathan Dupuy (Lyon, Dec 2015), Adrien Pilleboue (Lyon, Nov 2015) and Gurprit Singh (Lyon, Sep 2015).
- Joëlle Thollot has been a member of the jury for the PhD of Martin Guay (Grenoble, Dec 2015).

9.3. Popularization

Every year, "MobiNet" (see section 5.7) classes are conducted with high school pupils of the large Grenoble area to practice initiation and intuition on Computer Science, Maths and Physics. Depending on the year, we have 2 to 4 groups in the scope of INP-Grenoble "Engineering weeks", and 0 to 2 groups in the scope of Math-C2+ operations.

MIMETIC Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

Marc Christie, co-Program Chair, ACM Motion in Games, MIG 2015, Paris

10.1.1.2. Member of the organizing committees

Marc Christie, Steering Committee and Conference Organiser, Smartgraphics 2015, Chengdu, China

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

Marc Christie, ACM Motion in Games MIG 2015, Paris, France, November 2015

Marc Christie, Smartgraphics, Chengdu, China, August 2015

Ludovic Hoyet, ACM Motion in Games MIG 2015, Paris, France, November 2015

Ludovic Hoyet, International Conference on Computer Graphics Theory and Applications (GRAPP), Rome, Italy, February 2016

Richard Kulpa, International Conference on Computer Graphics Theory and Applications (GRAPP), Rome, Italy, February 2016

Franck Multon, member of the International Steering committee of MIG, International steering committee of the symposium "From humans and non-humans primates to robots: motion", member of the International Program Committee of MIG, STARs International Program Committee Eurographics

Anne-Hélène Olivier, IEEE VR 2016, Greenville, United-States, March 2016

10.1.2.2. Reviewer

Ludovic Hoyet, Eurographics 2016, Lisbon, Portugal, May 2016

Ludovic Hoyet, IEEE VR 2016, Greenville, United-States, March 2016

Richard Kulpa, IEEE VR 2016, Greenville, United-States, March 2016

Richard Kulpa, VISIGRAPP, Rome, Italy, February 2016

Franck Multon, ICRA2016, IEEE VR 2016, ISBS 2015

Charles Pontonnier, IHM 2015, Toulouse, France, October 2015

Marc Christie, Eurographics, CHI, Smartgraphics, VISIGRAPP, Motion in Games,

10.1.3. Journal

10.1.3.1. Member of the editorial boards

Franck Multon, Editorial board of Presence MIT Press

Marc Christie, Associate Editor, The Visual Computer, Springer

10.1.3.2. Reviewer - Reviewing activities

Ludovic Hoyet, Computer Animation and Virtual Worlds, Computer Graphics Forum, Transactions on Graphics, Transactions on Applied Perception

Richard Kulpa, Journal of Sports Engineering and Technology, Journal of Sports Sciences

Franck Multon, Gait and Posture, Applied Computing and Informatics, Journal of Applied Biomechanics, Sensors, International Journal of Sports and Exercise Medicine

Anne-Hélène Olivier, Gait and Posture, Journal of Experimental Psychology Human Perception and Performance

Charles Pontonnier, Applied Ergonomics

Marc Christie, TVCG, The Visual Computer, Computer Graphics Forum

10.1.4. Invited talks

Ludovic Hoyet, Perception of Biological Human Motion: Towards New Perception-Driven Virtual Character Simulations, Inria Grenoble, Equipe Imagine, France, September 2015

Ludovic Hoyet, Perception of Biological Human Motion: Towards New Perception-Driven Virtual Character Simulations, Northumbria University, United Kingdom, November 2015

Franck Multon, Virtual Reality and Sports, applied session, International Society of Biomechanics in Sports, 2015

Franck Multon, Physical Activity on VR, Invited talk, International Society of Biomechanics in Sports, 2015

Richard Kulpa, Virtual Reality and Sports, applied session, International Society of Biomechanics in Sports, 2015

Charles Pontonnier Muscle based control for avatar animation: a synergy based approach, From Humans and Non-Human Primates to Robots: Motion, International Meeting, CNRS Primatology Station, Rousset sur Arc, France, December 2015

10.1.5. Scientific expertise

- Franck Multon, reviewer for a full-length ANR Proposal
- Franck Multon, reviewer for 12 short ANR proposals

10.1.6. Research administration

- Franck Multon is member of the University Rennes2 Research steering committee "commission recherche", and Academic Council "CAC",
- Franck Multon is member of the M2S Lab steering committee,
- Richard Kulpa is member of the University Rennes2 Research steering committee "commission recherche", and Academic Council "CAC",
- Franck Multon is member of the UFR-APS steering committee in University Rennes2
- Benoit Bideau is director of the M2S Lab
- Georges Dumont is director of mechatronics teaching department at École Normale Supérieure de Rennes
- Georges Dumont is president of the elected group at scientific council of École Normale Supérieure de Rennes, member of the scientific council of École Normale Supérieure de Rennes
- Georges Dumont is scientific head of Media and Interaction Department at IRISA
- Georges Dumont is scientific head of Immerstar platforms (Immersia + Immermove) jointly for Inria and Irisa Partners

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

10.2.1.1. Master level

Master : Franck Multon, "Images et Mouvement - IMO", leader of the module, 20H, Master 2 research in computer sciences, University Rennes1, France

Master : Franck Multon, "Santé et Performance au Travail : étude de cas", leader of the module, 30H, Master 1 M2S, University Rennes2, France

Master : Franck Multon, "Analyse Biomécanique de la Performance Motrice", leader of the module, 30H, Master 1 M2S, University Rennes2, France

Master : Franck Multon, "Modélisation et Simulation du Mouvement", leader of the module, 30H, Master 2 M2S, University Rennes2, France

Master: Marc Christie, "Multimedia Mobile", Master 2, leader of the module, 32h, Computer Science, University of Rennes 1, France

Master: Marc Christie, "Projet Industriel Transverse", Master 2, 32h, leader of the module, Computer Science, University of Rennes 1, France

Master: Marc Christie, "Outils pour la Conception d'IHM", Master 2, 32h, leader of the module, Computer Science, University of Rennes 1, France

Master : Armel Créteil, "Méthodologie", leader of the module, 20H, Master 1 M2S, University Rennes2, France

Master : Armel Créteil, "Biostatistiques", leader of the module, 15H, Master 2 M2S, University Rennes2, France

Master: Charles Pontonnier, "Numerical methods", leader of the module, Mechanics, École Spéciale Militaire de Saint-Cyr Coëtquidan, France

Master: Charles Pontonnier, "Numerical simulation of mechanical systems", leader of the module, Mechanics, École Spéciale Militaire de Saint-Cyr Coëtquidan, France

Master: Charles Pontonnier, "Analytical Mechanics" , Mechanics, École Spéciale Militaire de Saint-Cyr Coëtquidan, France

Master: Charles Pontonnier, "Design and control of mobile robots", leader of the module, Electronics, École Spéciale Militaire de Saint-Cyr Coëtquidan, France

Master: Charles Pontonnier, "Design, simulation and control of mechanical systems", leader of the module, Lecturers training in mechatronics, École Normale Supérieure de Rennes, France

Master : Richard Kulpa, "Contrôle moteur", leader of the module, Master 1 M2S, Université Rennes 2, France

Master : Richard Kulpa, "Boucle analyse-modélisation-simulation du mouvement", leader of the module, Master 2 M2S, Université Rennes 2, France

Master : Richard Kulpa, "Méthodes numériques d'analyse du geste", leader of the module, Master 2 M2S, Université Rennes 2, France

Master : Richard Kulpa, "Cinématique inverse", leader of the module, Master 2 M2S, Université Rennes 2, France

Master: Fabrice Lamarche, "Compilation pour l'image numérique", 29h, Master 1, ESIR, University of Rennes 1, France

Master: Fabrice Lamarche, "Synthèse d'images", 12h, Master 1, ESIR, University of Rennes 1, France

Master: Fabrice Lamarche, "Synthèse d'images avancée", 28h, Master 1, ESIR, University of Rennes 1, France

Master: Fabrice Lamarche, "Modélisation Animation Rendu", 36h, Master 2, ISTIC, University of Rennes 1, France

Master: Fabrice Lamarche, "Jeux vidéo", 26h, Master 2, ESIR, University of Rennes 1, France

Master : Georges Dumont, Mechanical simulation in Virtual reality, 36H, Master Mechatronics, Rennes 1 University and École Normale Supérieure de Rennes, France

Master : Georges Dumont, Responsable of the second year of the master Mechatronics, Rennes 1 University and École Normale Supérieure de Rennes, France

Master : Georges Dumont, Mechanics of deformable systems, 40H, Master FE, École Normale Supérieure de Rennes, France

Master : Georges Dumont, oral preparation to agregation competitive exam, 20H, Master FE, École Normale Supérieure de Rennes, France

Master : Georges Dumont, Vibrations in Mechanics, 10H, Master FE, École Normale Supérieure de Rennes, France

Master : Georges Dumont, Multibody Dynamics, 9H, Master FE, École Normale Supérieure de Rennes, France

Master : Georges Dumont, Finite Element method, 12H, Master FE, École Normale Supérieure de Rennes, France //

Master : Anne-Hélène Olivier, "Biostatistiques", 18H, Master 2 M2S, University Rennes2, France

Master : Anne-Hélène Olivier, "Biostatistiques", 12H, Master 1 2SEP, École Normale Supérieure de Rennes, France

Master : Anne-Hélène Olivier, "Contrôle moteur : loi de contrôle de la locomotion", 3H30, Master 1 M2S, Université Rennes 2, France

Master : Anne-Hélène Olivier, "Contrôle moteur : Boucle perceptivo-motrice", 3H30, Master 1 M2S, Université Rennes 2, France

Master : Anne-Hélène Olivier, "Analyse Biomécanique de la Performance Motrice", 15H, Master 1 M2S, University Rennes2, France

10.2.1.2. Licence level

Licence : Franck Multon, "Ergonomie du poste de travail", Licence STAPS L2 & L3, University Rennes2, France

Licence : Marc Christie, "Système d'information Tactiques", Computer Science, University of Rennes 1, France

Licence : Marc Christie, "Programmation Impérative 1", leader of the module, University of Rennes 1, France

Licence : Armel Créteil, "Analyse cinématique du mouvement", 100H, Licence 1, University Rennes 2, France

Licence: Charles Pontonnier, "Numerical control", leader of the module, Electronics, École Inter-Armes de Saint-Cyr Coëtquidan, France

Licence : Richard Kulpa, "Biomécanique (dynamique en translation et rotation)", Licence 2, Université Rennes 2, France

Licence : Richard Kulpa, "Méthodes numériques d'analyse du geste", Licence 3, Université Rennes 2, France

Licence : Richard Kulpa, "Statistiques et informatique", Licence 3, Université Rennes 2, France

Licence: Fabrice Lamarche, "Initiation à l'algorithmique et à la programmation", 56h, License 3, ESIR, University of Rennes 1, France

Licence: Fabrice Lamarche, "Programmation en C++", 46h, License 3, ESIR, University of Rennes 1, France

Licence: Fabrice Lamarche, "IMA", 24h, License 3, ENS Rennes, ISTIC, University of Rennes 1, France

Licence : Anne-Hélène Olivier, "Analyse cinématique du mouvement", 100H , Licence 1, University Rennes 2, France

Licence : Anne-Hélène Olivier, "Anatomie fonctionnelle", 8H , Licence 1, University Rennes 2, France

Licence : Anne-Hélène Olivier, "Effort et efficacité", 12H , Licence 1, University Rennes 2, France

Licence : Anne-Hélène Olivier, "Locomotion et handicap", 12H , Licence 1, University Rennes 2, France

Licence : Anne-Hélène Olivier, "Biomécanique du vieillissement", 12H , Licence 1, University Rennes 2, France

10.2.2. Supervision

PhD: Steve Tonneau, Synthèse et planification de mouvement pour des personnages virtuels en environnements contraints, INSA Rennes, 2011-2015, Franck Multon & Julien Pettré

PhD: Carl-Johan Jorgensen, Peuplement automatisé d'environnements urbains pour l'étude et la validation d'aménagements, University of Rennes 1, Fabrice Lamarche & Kadi Bouatouch

PhD: Kevin Jordao, Peuplement massif de maquettes numériques immenses, University Rennes1, Julien Pettré

PhD: Julien Bruneau, Foules immersives, University Rennes1, Julien Pettré

PhD: Billal Merabti, Style-driven virtual camera control in 3D environments, University of Rennes 1, Kadi Bouatouch & Marc Christie

PhD: Quentin Galvane, Automatic cinematography and editing in virtual environments, University of Grenoble, Rémi Ronfard & Marc Christie

PhD in progress: Marion Morel, Suivi et étude des interactions pour l'analyse des tactiques durant un match de basket-ball, UPMC - University Rennes 2, septembre 2014, Catherine Achard & Séverine Dubuisson & Richard Kulpa

PhD in progress: Sean D. Lynch, Perception visuelle du mouvement humain dans les interactions lors de tâches locomotrices, M2S - University Rennes 2, septembre 2015, Anne-Hélène Olivier & Richard Kulpa

PhD in progress: Pierre Touzard, Suivi longitudinal du service de jeunes joueurs de tennis élite : identification biomécanique des facteurs de performance et de risque de blessures, University Rennes 2, septembre 2014, Benoit Bideau & Richard Kulpa & Caroline Martin

PhD in progress: Yacine Said Bouhalia, Approche transversale pour l'analyse et la reconnaissance de gestes 2D et 3D, INSA of Rennes, septembre 2015, Richard Kulpa & Franck Multon & Eric Anquetil

PhD in progress: Pierre Plantard, Estimation des efforts musculaires à partir de données in situ pour l'évaluation ergonomique d'un poste de travail, 2013-2016, Franck Multon & Anne-Sophie LePierres

PhD in progress: Ana Lucia Cruz Ruiz, Contributions to muscle based control: a synergy based approach, Ecole normale supérieure, Georges Dumont & Charles Pontonnier

PhD in progress: Antoine Muller, Design of a modular and multiscale musculoskeletal model as a support to motion analysis-synthesis, Ecole normale supérieure, Georges Dumont & Charles Pontonnier

PhD in progress: Hui-yin Wu, Validated temporal structures in Interactive Storytelling, University Rennes1, Marc Christie

PhD in progress: Cunka Sanokho, Data-driven Virtual Cinematography, University Rennes1, Marc Christie

10.2.3. Juries

PhD: Eray Molla, Precise and Responsive Performance Animation for Embodied Immersive Interactions, EPFL, September 25th, Richard Kulpa, rapporteur

PhD: Guay Martin, Sketching free-form poses and movements for expressive character animation, Univ. Grenoble, July 2nd, Franck Multon, Examineur

PhD: Omran Sahab, Génération de trajectoires de marche de robots humanoïdes établies sur les modèles pendulaires bio-inspirés de l'humain, November 30th, Univ. Nantes, Franck Multon, Examineur

PhD: Vallee Pascal, Estimation du risque de chute suite à une perturbation d'équilibre, November 26th, Univ. Claude Bernard Lyon1., Franck Multon, Rapporteur

HDR: Watier Bruno, De l'analyse du mouvement in-vitro à la génération de mouvements des systèmes anthropomorphes, November 16th, Univ. Toulouse3, Franck Multon, Rapporteur

HDR: Hayashibe Mitsuhiro, Computational Modeling and Control for Personalized Neuroprosthetics and Rehabilitation, October 12nd, Univ. Montpellier, Franck Multon, Rapporteur

PhD: Fourati Nesrine, Classification et Caractérisation de l'Expression Corporelle des Emotions dans des Actions Quotidiennes, September 9th, Telecom Paristech, Franck Multon, Examineur

PhD: Maurice Pauline, Virtual ergonomics for the design of collaborative robots, June 16th, Univ. Pierre et Marie Curie, Franck Multon, Rapporteur

PhD: Vigier Toinon, Suggestion et perception des ambiances climatiques dans les environnements virtuels urbains, July 3rd, Ecole Centrale de Nantes, Franck Multon, Président

PhD: Han Yuan, Static and Dynamic Stiffness Analysis of Cable-Driven Parallel Robots, INSA Rennes, March 11th, Georges Dumont, Examineur

PhD: Brian Ravenet, Modélisation de comportements non-verbaux et d'attitudes sociales dans la simulation de groupes conversationnels, Telecom Paristech, Dec 7, Marc Christie, Examineur

PhD: Zaynab Habibi, Vers l'assistance à l'exploration pertinente et réaliste d'environnements 3D très denses, Université de Picardie Jules Verne, Dec 8, Marc Christie, Examineur

MINT Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events organisation

9.1.1.1. General chair, scientific chair

Frédéric Giraud: General co-chair EMR'2015 (Lille)

9.1.1.2. Member of the organizing committees

Laurent Grisoni: Workshop on Collaboration Meets Interactive Surfaces (CMIS): workshop at ACM ITS tabletop. Co-organised with Andres Lucero, Craig Anslow, Pedro Campos

9.1.2. Scientific events selection

9.1.2.1. Member of the conference program committees

Laurent Grisoni: Computer Graphics International (CGI, 32nd event) , GRAPP (Computer Graphics theory and applications, 11th event), ISEA (21st International Symposium on Electronic Art), MOCO (2nd International workshop on Motion and Computing), VRIPHYS (12th workshop on Virtual Reality Interaction and Physical Simulation)

9.1.2.2. Reviewer

Florent Berthaut: Reviewer for ACM CHI Conference

9.1.3. Journal

9.1.3.1. Member of the editorial boards

Frédéric Giraud: Associate Editor IEEE Transactions on Haptics

9.1.3.2. Reviewer - Reviewing activities

Frédéric Giraud: reviewer for IEEE Transactions on Mechatronics, IEEE Transactions on Power Electronics, Elsevier Sensors and Actuators

Christophe Giraud-Audine: reviewer for IEEE Transactions on Mechatronics, IEEE Transactions on Power Electronics, IEEE Transactions on Haptics, IEEE Transactions on Industrial Electronic

9.1.4. Scientific expertise

Frédéric Giraud: Expert for the ANR (france), MITACS acceleration (CANADA) Laurent Grisoni: ANR CES 38 2015, 2016 («numérique et société» commitee), Fondecyt (CHILE national research agency), CIR (credit impot recherche) evaluation for French ministry of industry.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

- Licence: Florent Berthaut, Tableur et Programmation VBA, LEA L3 TCI (22h), Université Lille 3, France
- Licence: Frédéric Giraud, Physique pour le génie électrique (30h), Université Lille 1
- Master: Christophe Giraud-Audine: Control of electrical machines (30h), Power Electronics (30h), signal processing (30h), niveau M1, ENSAM, France
- Master: Florent Berthaut, Conception Web, LEA M1 TSM (16,5h) et LEA M1 RICICI (48h), Bases de données, LEA M1 ANI (22h), Université Lille 3, France
- Master : Frédéric Giraud, Control of electrical machines (30h), Power Electronics (40h) niveau M1, Université Lille1, France
- Master : Laurent Grisoni, NIHM : nouvelles Interactions Homme-Machine, (6h), niveau M2, Université Lille 1, France
- Master: Laurent Grisoni, représentation et compression de données (24h), introduction à la programmation (38h), cryptographie (8h), Ecole Polytech'lille (dept IMA)
- Master : Laurent Grisoni, IHM et Interface à Gestes, (24h), niveau M2 (IMA5), Polytech Lille, France

9.2.2. Supervision

- PhD in progress: Ehsan Enferad, Modélisation et Commande d'une Interface Tactile à Stimulation Hybride par Modulation de Friction et Retourneement Temporel, nov. 2015, F. Giraud, C. Giraud-Audine
- Phd in progress: Cagan Arslan, Fusion de données pour l'interaction homme-machine, oct. 2015, L. Grisoni/J. Martinet
- Phd in progress: Farzan Kalantari, Interaction sur dispositif à retour tactile et kinesthésique, oct. 2014, L. Grisoni, F. Giraud
- PhD in progress: Sofiane Ghenna, Contrôle multimodal d'acionneurs piézo-électriques pour applications tactiles, F.Giraud, C.Giraud-Audine
- PhD in progress: Eric Vezzoli, oct 2013, B. Lemaire-Semail, F. Giraud
- PhD in progress: Wael ben Messaoud, Développement et contrôle d'un Stimulateur Tactile pour textures réelles, oct 2012, B. Lemaire-Semail, M.-A. Bueno
- Phd in progress: Hanae Rateau, l'interaction esquissée, oct. 2012, L. Grisoni
- Phd in progress: Nicolas Bremard, oct 2012, L. Grisoni/F. Aubert
- Phd in progress: Vincent Gouezou: L'architecte et ses outils, au travers de l'histoire et dans sa relation actuelle au numérique, oct. 2014, L. Grisoni 25% (with F. Vermandel, architect, Lille school of architecture)
- Phd in progress: Charlotte Planckeel, Le sens de la lacunae en archéologie de l'Âge du bronze, archéologie et outils numériques, L. Grisoni (25%, with A. Lehoerff, Lille 3, archeologist)

9.3. Popularization

9.3.1. Laurent Grisoni

Geste d'interaction, immersion, RV: une vue sur les enjeux, workshop VR/Rehabilitation, Tourcoing (imaginarium), mars 2015.

La réalité augmentée (sa réalité), Déjeuner technologiques du master Informatique de Lille 1, mars 2015

Dessin et Interaction (homme-machine), Journée épistémologie Sciences et Cultures du Visuel, Tourcoing (imaginarium), juin 2015

Situated Interaction and contemporary art, Journées scientifiques Inria, juin 2015, nancy

Hands on 3D Models (Virtual Reality and Physicality), 4th Sino-French Symposium on VR, Xi' An (Chine), aout 2015

Sketch and Human-Computer Interaction, invited talk at the LJK (Inria Rhones-Alpes), Nov 2015 and at the doctoral school of LACTH (Lille school of architecture) Nov. 2015

L'interaction en général, le geste et le tactile en particulier, Séminaire Inria/Euratechnologie, déc. 2015

9.3.2. Florent Berthaut

Reflets: a mixed-reality display for musical performances. Public demonstration for the Bristol Bright Night at the @Bristol Science Museum, September 2015, Bristol, UK

Mjolnir Team

9. Dissemination

9.1. Promoting scientific activities

9.1.1. Scientific events organisation

- **CHI** (ACM): Stéphane Huot (video previews co-chair)
- **UIST** (ACM): Stéphane Huot (video previews co-chair)
- **VIS** (IEEE): Fanny Chevalier (arts program co-chair)
- **IHM** (AFIHM): Stéphane Huot (*alt.IHM* co-chair)
- **RES#01**: Nicolas Roussel

9.1.2. Scientific events selection

Conference program committees:

- **UIST** (ACM): Géry Casiez
- **InfoVis** (IEEE): Fanny Chevalier
- **UbiComp** (ACM): Stéphane Huot
- **IHM** (AFIHM): Sylvain Malacria
- **MOCO**: Nicolas Roussel

Reviewing activities:

- **CHI** (ACM): Géry Casiez, Fanny Chevalier, Stéphane Huot, Sylvain Malacria, Thomas Pietrzak, Nicolas Roussel
- **UIST** (ACM): Alix Goguy, Stéphane Huot, Sylvain Malacria, Thomas Pietrzak, Nicolas Roussel
- **MobileHCI** (ACM): Sylvain Malacria
- **ITS** (ACM): Sylvain Malacria
- **VR** (IEEE): Stéphane Huot
- **NIME**: Stéphane Huot
- **ICMI** (ACM): Géry Casiez
- **IHM** (AFIHM): Géry Casiez, Fanny Chevalier, Nicolas Roussel

9.1.3. Journal

Editorial boards:

- *Journal d'Interaction Personne-Système* (AFIHM): Géry Casiez

Reviewing activities:

- *Transactions on Computer Human Interaction* (ACM): Sylvain Malacria, Thomas Pietrzak
- *Transactions on Visualization and Computer Graphics* (IEEE): Fanny Chevalier
- *Behaviour & Information Technology* (Taylor & Francis): Thomas Pietrzak

9.1.4. Scientific expertise

- *IDEX Université de Lille* project: Nicolas Roussel (strategic research council and writing committee member)
- PICOM competitiveness cluster: Nicolas Roussel (scientific board member)
- HAP2U startup: Nicolas Roussel (scientific board member)
- IRISA lab: Nicolas Roussel (scientific orientation committee member)
- Pictanovo: Nicolas Roussel (*Expériences Interactives* jury member)
- Agence Nationale de la Recherche (ANR): Fanny Chevalier (reviewer), Stéphane Huot (reviewer), Sylvain Malacria (reviewer), Thomas Pietrzak (reviewer)
- Aquitaine and Nord - Pas de Calais regions: Nicolas Roussel (reviewer)
- Délégation Régionale à la Recherche et à la Technologie Nord-Pas-de-Calais (DRRT): Fanny Chevalier (reviewer)

9.1.5. Research administration

For Inria:

- **Evaluation committee:** Nicolas Roussel (member)
- Gender equity and equality committee: Nicolas Roussel (member)
- Strategic orientation committee for the information system (COSS scientifique): Nicolas Roussel (member)
- International relations working group (COST-GTRI): Stéphane Huot (member)

For Inria Lille – Nord Europe:

- Scientific officer (délégué scientifique): Nicolas Roussel
- Technical development committee (CDT): Nicolas Roussel (member)
- Research jobs committee (CER): Nicolas Roussel (member)
- Support to researchers (accompagnement des chercheurs): Nicolas Roussel (adviser)
- Consultative committee (Comité de centre): Fanny Chevalier (member), Alix Goguy (member)
- Operational legal and ethical risk assessment committee (COERLE): Stéphane Huot (local correspondent)
- Activity reports (RAweb): Fanny Chevalier & Nicolas Roussel (local correspondents)

For the CRISAL lab of Univ. Lille 1:

- Laboratory council: Géry Casiez (elected member)

9.1.6. Learned societies

- Association Francophone d'Interaction Homme-Machine (AFIHM): Géry Casiez (board member, president), Stéphane Huot (board member and scientific council member), Thomas Pietrzak (board member)

9.1.7. Hiring committees

- Inria's eligibility jury for senior researcher positions (DR2): Nicolas Roussel
- Inria Lille's eligibility jury for junior researcher positions (CR2 & CR1): Stéphane Huot (vice-president)
- Univ. Lille 1's hiring committee for a Computer Science Professor position: Géry Casiez (president)
- Univ. Paris-Sud's hiring committee for a Computer Science Assistant Professor position: Géry Casiez (member), Fanny Chevalier (member)

9.2. Teaching, supervision, juries

9.2.1. Teaching

- DUT Informatique: Géry Casiez, *Algorithmique*, 80 hrs, 1st year, IUT A de Lille - Univ. Lille 1
- DUT Informatique: Géry Casiez, *Modélisation mathématique*, 14 hrs, 2nd year, IUT A de Lille - Univ. Lille 1
- DUT Informatique: Géry Casiez, *Projets*, 18 hrs, 2nd year, IUT A de Lille - Univ. Lille 1
- Licence Informatique: Thomas Pietrzak, *AEL : Automates et Langages*, 36 hrs, L3, Univ. Lille 1
- Licence Informatique: Thomas Pietrzak, *ASD : Algorithmes et Structures de Données*, 36 hrs, L3, Univ. Lille 1
- Master Informatique: Thomas Pietrzak (32 hrs), Nicolas Roussel (8 hrs), Sylvain Malacria (8 hrs), *IHM : Interaction Homme-Machine*, M1, Univ. Lille 1
- Master Informatique: Géry Casiez, *Multi-Touch Interaction*, 10 hrs, M1, Univ. Lille 1
- Master Informatique *Image Vision Interaction (IVI)*: Géry Casiez (16 hrs), Fanny Chevalier (16 hrs), Thomas Pietrzak (16 hrs), *NIHM : Nouvelles Interactions Homme-Machine*, M2, Univ. Lille 1
- Master: Thomas Pietrzak, *IHM et Interface à Gestes*, 12 hrs, IMA5 (M2 level), Polytech Lille
- Master: Géry Casiez (6 hrs), Thomas Pietrzak (10.5 hrs), *3DETech : 3D Digital Entertainment Technologies*, M2 level, Télécom Lille
- Master Sociologie *Réseaux Sociaux Numériques (RSN)* : Fanny Chevalier, *Statistiques et visualisation de données*, 8 hrs, M2, Univ. Lille 1
- Master Sociologie *Réseaux Sociaux Numériques (RSN)*: Fanny Chevalier, *Outils et Pratiques Numériques*, 6 hrs, M1, Univ. Lille 1
- Research Masters in Computer Science & HCID Masters (EIT ICT Labs European Master in Human-Computer Interaction and Design): Stéphane Huot, *Mixed Reality and Tangible Interaction*, 18 hrs, M2, Univ. Paris Sud
- Research Masters in Computer Science & HCID Masters (EIT ICT Labs European Master in Human-Computer Interaction and Design): Stéphane Huot, *Advanced Programming of Interactive Systems*, 13.5 hrs, M1 & M2, Univ. Paris Sud

9.2.2. Supervision

- PhD in progress: Thibault Raffailac, *Languages and system infrastructure for interaction*, started October 2015, advised by Stéphane Huot & Stéphane Ducasse
- PhD in progress: Amira Chalbi, *Comprendre et mieux concevoir les animations dans le contexte des interfaces graphiques*, started October 2014, advised by Nicolas Roussel & Fanny Chevalier
- PhD in progress: Alexandre Kouyoumdjian, *Multimodal selection of numerous moving targets in large visualization platforms: application to interactive molecular simulation*, started October 2013, advised by Stéphane Huot, Patrick Bourdot & Nicolas Ferey (in Saclay)
- PhD in progress: Alix Goguet, *Interacting between physical and digital tools*, started October 2013, advised by Géry Casiez
- PhD in progress: Andéol Evain, *BCI-based interactions*, started September 2013, advised by Anatole Lecuyer, Géry Casiez & Nicolas Roussel (in Rennes)
- PhD in progress: Oleksandr Zinenko, *Interactive code restructuring*, started September 2013, advised by Stéphane Huot & Cédric Bastoul (Université de Strasbourg)
- PhD in progress: Justin Mathew, *New visualization and interaction techniques for 3D spatial audio*, started June 2013, advised by Stéphane Huot & Brian Katz (in Saclay)
- PhD: Jonathan Aceituno, *Direct and expressive interaction on the desktop: increasing granularity, extent, and dimensionality*, Univ. Lille 1, defended in October 2015, advised by Nicolas Roussel

9.2.3. Juries

- Merwan Achibet (PhD, Université de Rennes): Géry Casiez, examiner
- Louis-Pierre Bergé (PhD, Université de Toulouse): Géry Casiez, reviewer
- Mohamed Ikbel Boulabiar (PhD, Université de Bretagne Sud): Géry Casiez, reviewer
- William Delamare (PhD, Université de Grenoble): Géry Casiez, reviewer
- Camille Fayollas (PhD, Université de Toulouse): Nicolas Roussel, reviewer
- Jérémy Frey (PhD, Université de Bordeaux): Nicolas Roussel, president
- Nazim Haouchine (PhD, Université Lille 1): Géry Casiez, president
- Leonhard Lichtschlag (PhD, RWTH Aachen University): Stéphane Huot, reviewer
- Gustavo Rovelo (PhD, Universitat Politècnica de València): Géry Casiez, reviewer
- Quentin Roy (PhD, Télécom ParisTech): Stéphane Huot, reviewer
- Matthias Schwaller (PhD, Université de Fribourg): Nicolas Roussel, reviewer
- Siju Wu (PhD, Université d'Evry): Géry Casiez, reviewer

9.3. Popularization

- “*L’onde de choc des attentats du 13 Novembre, jusque dans Wikipédia*” article published on Rue89’s Web site, December: Fanny Chevalier
- “*Data Visualization - Voir grand, petit à petit*”, talk at the Big Data day organized at EuraTechnologies, November: Fanny Chevalier
- “*Mouvement & Informatique*”, talk for **TEDx Valenciennes**, October: Nicolas Roussel
- “*Des ordinateurs et des Hommes - les défis de l’Interaction Homme-Machine*”, talk at Lycée César Baggio as part of Inria Lille’s “Chercheurs Itinérants” program, October: Stéphane Huot
- “*Adoiraccourcix : l’identification des doigts au service de raccourcis tactiles*”, talk at Lycée Thérèse d’Avila and Lycée Queneau during as part of Inria Lille’s “Chercheurs Itinérants” program, October: Alix Goguey
- “*J’étudie les relations homme-machine, posez-moi vos questions*”, Ask-me-anything article published on Rue89’s Web site, October: Fanny Chevalier
- “*La Recherche en Interaction Homme-Machine*”, talk at Rue89, October: Fanny Chevalier
- “*Recherche en Sciences du Numérique & Design*”, talk for **Lille Design** at EuraTechnologies, September: Nicolas Roussel
- “*Inria and its Lille – Nord Europe research center*”, talk as part of the press visit organized for the ICML conference, July: Nicolas Roussel
- “*Mieux explorer pour mieux raisonner - la visualisation interactive au service du savoir-faire de l’analyse*”, talk at EuraTechnologie, July: Fanny Chevalier
- “*Des ordinateurs et des Hommes - les défis de l’Interaction Homme-Machine*”, talk for the Centre de Vulgarisation de la Connaissance at Université Paris-Sud, January: Stéphane Huot

POTIOC Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. Member of the organizing committees

- Workshop organizer Interco3D (workshop on 3D Interaction & Cognition), ACM IHM conference, Toulouse, October 2015 (Anke Brock & Fabien Lotte)
- Doctoral Consortium, ACM IHM conference, Toulouse, October 2015 (Anke Brock)
- Panel Chair, ACM womENCourage conference, Uppsala, Sweden, September 2015 (Anke Brock)
- Workshop Organizer "Accessible Interaction for Visually Impaired People", MUC'15, Stuttgart, Germany, September 2015 (Anke Brock)
- Workshop co-organizer "Affective Brain-Computer Interface", ACII 2015, Xi'an, China (Fabien Lotte)
- Special session on "Robust EEG signal processing towards practical BCI design" at EUSIPCO 2015, Nice, France (Fabien Lotte)
- Special session on "user training" in the BCI workshop at the SMC2015 conference, Hong Kong, October 2015 (Fabien Lotte & Camille Jeunet)
- 4th Sino-French Workshop on Virtual Reality Co-organizer, Xi'an, August 2015 (Pascal Guitton)

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- ACII 2015: Program Committee Member (Fabien Lotte)
- Assets' 15: Poster Committee Member (Anke Brock)
- Augmented Humans 2016: Program Committee Member (Fabien Lotte)
- CAA 2015: Program Committee Member (Pascal Guitton)
- CHI 2015: Program Committee Member (Martin Hachet)
- EUSIPCO 2015: Program Committee Member (Fabien Lotte)
- IEEE 3DUI: Best paper award Committee (Martin Hachet)
- IEEE SMC 2015: Program Committee Member (Fabien Lotte, Camille Jeunet)
- International Winter Conference on Brain-Computer Interfaces: Program Committee Member (Fabien Lotte)
- ITS' 15: Program Committee Member (Anke Brock)
- Journées scientifiques Inria 2015 : Program Committee Member (Pascal Guitton)

10.1.2.2. Reviewer

- ACII 2015 (Fabien Lotte)
- Augmented Humans 2016 (Fabien Lotte)
- CHI' 15 (Anke Brock, Camille Jeunet, Fabien Lotte)
- CHI' 16 (Jérémy Frey, Fabien Lotte, Anke Brock, Camille Jeunet)
- EUSIPCO 2015 (Fabien Lotte)
- ICASSP 2015 (Fabien Lotte)

- IHM'15 (Anke Brock)
- Interact'15 (Anke Brock, Fabien Lotte)
- Jetsan'15 (Anke Brock)
- MobileHCI'15 (Anke Brock)
- NIPS 2015 (Fabien Lotte)
- PRNI 2015 (Fabien Lotte)
- SMC2015 (Camille Jeunet, Fabien Lotte)
- UIST'15 (Anke Brock, Martin Hachet)
- womENCourage'15 (Anke Brock)

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- Review Editor for Frontiers in Robotics and AI (Martin Hachet)
- Review Editor for Frontiers in Neuroprosthetics (Fabien Lotte)
- Review Editor for Frontiers in Human-Media Interaction (Fabien Lotte)

10.1.3.2. Reviewer - Reviewing activities

- ACM Journal on Computing and Cultural Heritage (Anke Brock)
- Frontiers in Human Media Interaction (Fabien Lotte)
- Frontiers in Neurosciences (Fabien Lotte)
- IEEE Journal on Selected Topics in Signal Processing (Fabien Lotte)
- IEEE Transactions on Affective Computing (Fabien Lotte)
- IEEE Transactions on Biomedical Engineering (Fabien Lotte)
- IEEE Transactions on Haptics (Anke Brock)
- IEEE Transactions on Human-Machine Systems (Fabien Lotte, Camille Jeunet)
- IEEE Transactions on Neural Systems and Rehabilitation Engineering (Fabien Lotte)
- International Journal of Psychophysiology (Camille Jeunet)
- Journal of Medical Imaging and Health Informatics (Fabien Lotte)
- Journal of Neural Engineering (Fabien Lotte)
- Journal of Visualized Experiments (Camille Jeunet)
- NeuroImage (Fabien Lotte)
- Proceedings of the IEEE (Fabien Lotte)
- T&F Behavior & Information Technology (Anke Brock)

10.1.4. Invited talks

- "Towards Improved BCI based on Human Learning Principles", 3rd International Winter Conference on Brain-Computer Interfaces, South Korea, January 2015 (Fabien Lotte)
- "Human Learning-based Brain-Computer Interface Design", University of Freiburg, Brain Links/Brain Tools excellence cluster, Germany, January 2015 (Fabien Lotte)
- "Interactions tangibles et réalités augmentées au service de l'éducation", Journées scientifiques Inria, Nancy, June 2015 (Martin Hachet)
- "Brain-Computer Interaction research at Potioc team », "Handicap & Système Nerveux" laboratory, The University of Bordeaux, Bordeaux, France, June 2015 (Fabien Lotte, Camille Jeunet, Jérémy Frey)
- "Towards practical BCI Technologies", RIKEN BSI, Japan, July 2015 (Fabien Lotte)

- “Robust EEG signals classification towards practical Brain-Computer Interface technologies”, Sugiyama Laboratory, the University of Tokyo, Tokyo, Japan, July 2015 (Fabien Lotte)
- “Towards practical BCI Technologies”, Cinet, Osaka, Japan, July 2015 (Fabien Lotte)
- “Popular Interaction” and "Interacting with spatial information", EPFL, Lausanne, Switzerland, August 2015 (Martin Hachet & Anke Brock)
- “Popular Interaction”, Dassault Systèmes, Campus 3DS - Paris, September 2015 (Martin Hachet)
- “Towards practical EEG-based Brain-Computer Interface Technologies”, South China University of Technology, Guangzhou, China, October 2015 (Fabien Lotte)
- "Interacting with spatial information", DFKI Saarbruecken, Germany, November 2015 (Anke Brock)
- "Improving BCI-user training: Towards a new generation of reliable, efficient and accessible brain-computer interfaces", Donders Discussions, Netherlands, November 2015 (Camille Jeunet)

10.1.5. Leadership within the scientific community

- IEEE 3DUI Steering Committee - leader (Martin Hachet)

10.1.6. Scientific expertise

- Review for "Crédit Impot Recherche" (Martin Hachet)
- Review of two research projects for the Research Foundation Flanders (Anke Brock)
- Review of one research project for HES-SO (Switzerland) (Pascal Guitton)
- Review of an ANR project (Fabien Lotte)

10.1.7. Research administration

- Member of Inria Ethical Committee (COERLE) (Pascal Guitton)
- Member of Inria Comité Parité et Egalité (Pascal Guitton)
- Member of Comité de Pilotage de Software Heritage (Pascal Guitton)
- Member of Commission de recrutement des Inspecteurs Généraux de l'Éducation Nationale (IGEN) (Pascal Guitton)
- Member of Committee for technological development at Inria Bordeaux Sud Ouest (CDT) (Fabien Lotte)

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Licence

- Licence : Julia Chatain, Algorithms and programmation, TP, 32h eqtd, First year (L1), IUT de Bordeaux, France
- Licence : Jérémy Frey, Programming, CM-TD, 30h eqtd, L1 Computer Science, University of Bordeaux, France
- Licence : Damien Clergeaud, Functional and Symbolic Programming, TP, 32h eqtd, L3 Computer Science, University of Bordeaux, France

Master

- Master : Jérémy Frey, Programming projects, TD, 32h eqtd, M1 Computer Science, University of Bordeaux, France
- Master : Pascal Guitton, Virtual and Augmented Realities, CM, 36h eqtd, M2 Computer Science, University of Bordeaux, France

- Master : Pascal Guitton, Digital accessibility, CM, 12h eqtd, M1 Cognitive Science, University of Bordeaux, France
- Master : Pascal Guitton, Assistive technologies, CM, 30h eqtd, M2 Cognitive Science, University of Bordeaux, France
- Master : Anke Brock, Virtual Reality and 3D Interaction, CM, 7,5h eqtd, M2 Cognitive Science, University of Bordeaux, France
- Master : Martin Hachet, Virtual Reality and 3D Interaction, CM, 12h eqtd, M2 Cognitive Science, University of Bordeaux, France
- Master : Fabien Lotte, Virtual Reality and 3D Interaction, CM, 4h eqtd, M2 Cognitive Science, University of Bordeaux, France
- Master : Anke Brock, Handicap, Autonomy & Technology, TP, 4h eqtd, M2 Cognitive Science, University of Bordeaux, France
- Master : Anke Brock, Video Games and Interaction, CM-TD, 12h eqtd, 3rd year (M2), Enseirb, Bordeaux, France
- Master : Martin Hachet, Video Games and Interaction, CM-TD, 8h eqtd, 3rd year (M2), Enseirb, Bordeaux, France
- Master: Fabien Lotte, Virtual Reality, Accesibility and Brain-Computer Interfaces, 4h eqtd, 3rd year (M2), ENSSAT, Lannion, France
- Master: Fabien Lotte, Brain Computer Interfaces, 6h eqtd, 3rd year (M2), ESIEA, Laval, France
- Master : Anke Brock, Human-Computer Interaction, CM-TD, 12h eqtd, M2 Intelligent Systems and Robotics (M2SIR), University Toulouse, France

10.2.2. Supervision

PhD

- PhD : Jérémy Frey, Leveraging human-computer interactions and social presence with physiological computing, Université de Bordeaux, defended 8/12/2015, (Martin Hachet & Fabien Lotte)
- PhD : Renaud Gervais, Interaction and Introspection with Tangible Augmented Objects, Université de Bordeaux, defended 9/12/2015, (Martin Hachet)

PhD in progress

- Julia Chatain (PhD Student in Computer Science, University of Bordeaux), "Design and evaluation of augmented geographic maps", since September 2015 (Anke Brock & Martin Hachet)
- Damien Clergeaud (PhD Student in Computer Science, University of Bordeaux), "Collaborative interaction for aerospace scenarios", since November 2014 (Pascal Guitton)
- Camille Jeunet (PhD Student in Cognitive Science, University of Bordeaux), "Improving User training approaches for Brain-Computer Interface", since October 2013 (Martin Hachet, Fabien Lotte, co-supervision with Bernard N'Kaoua, University of Bordeaux and Sriram Subramanian, University of Sussex)
- Stephanie Lees (PhD student in Computer Science, Ulster University, UK): "Assessing and Optimising Human-Machine Symbiosis through Neural signals for Big Data Analytics", since February 2014 (Fabien Lotte, co-supervision with Damien Coyle, Paul McCullagh and Liam Maguire, Ulster University)
- Lorraine Perronnet (PhD student in Computer Science, Rennes University): "Neurofeedback and Brain Rehabilitation based on EEG and fMRI", since January 2014 (Fabien Lotte, co-supervision with Anatole Lécuyer, Christian Barillot, Inria Rennes and Maureen Clerc, Inria Sophia Antipolis)

- Joan Sol Roo (PhD Student in Computer Science, University of Bordeaux), "Interaction with Spatial Augmented Reality", since December 2014 (Martin Hachet)

Internships

- Julia Chatain (Master Student in Computer Science, Polytechnique France & EPFL Switzerland), "SyMAPse: Augmented Interactive Maps for Subjective Expression", February to July 2015, (Anke Brock & Martin Hachet, co-supervised by D. Laval at Cap Sciences)
- Pierre-Antoine Cinquin (M2 Cognitive Sciences, University of Bordeaux), "Digital accessibility for e-learning" (Pascal Guitton)
- Maxime Daniel (M2 Computer Science, University of Bordeaux), "Create a virtual environment that could validate the use of electroencephalography as an evaluation tool for 3D interactions", January to June 2015 (Jérémy Frey, Fabien Lotte, co-supervision with Julien Castet at Immersion)
- Adrien Dax (M2IHM, University Toulouse), "Design of Tangible Objects and Interaction Techniques for Visually Impaired Students", March to August 2015 (Anke Brock, co-supervision with C. Jouffrais, M. Macé & J. Ducasse at Irit Toulouse)
- Marie Demangeat (M1 Cognitive Science, University Bordeaux), "Design and evaluation of interactive devices for the museum", April to May 2015, (Anke Brock, Julia Chatain & Martin Hachet)
- Maxime Duluc (last year in engineering school "Institut d'Optique Graduate School"), "Create an instrumented version of the tangible interface of electroencephalographic signals' visualization Teegi", January to June 2015 (Jérémy Frey)
- Alexis Gay (M2 Design, University of Bordeaux Montaigne), "Design of Tobe, a tangible out-of-body experience", April to June 2015 (Jérémy Frey and Renaud Gervais)
- Emilie Jahanpour (M1 Cognitive Sciences, University of Bordeaux), "Is it possible to predict BCI performance from the performance obtained at simple motor tasks? (Camille Jeunet, Fabien Lotte, co-supervision with Bernard N'Kaoua)
- Houda Lamqaddam (M2IHM, University Toulouse), "Design of Innovative Interaction Techniques for Interactive Maps", March to August 2015 (Anke Brock, co-supervision with E. Dubois & M. Serrano at Irit Toulouse)

Other Supervision

- Charles Coeurderoy & Violaine Sudret (M2 Enseirb, Bordeaux), "GPS Narratif", Student Project, November 2015 to January 2016 (Julia Chatain & Anke Brock)
- Paul Ecoffet, Florian Gouet, Elias Rhouzlane, Mathieu Seurin, "Detecting frustration during a training from physiological and neurophysiological markers" (Camille Jeunet & Fabien Lotte)
- Ilias Ainseba, Théo Geral, Charles Gouverneur, "Les Interfaces Cerveau-Ordinateur : La technologie peut-elle compenser les défaillances du corps humain ? ", TPE 1ère S, 2015 (Camille Jeunet)

10.2.3. Juries

- PhD (rapporteur): William Delamarre, Nov. 2015, Grenoble (Martin Hachet)
- PhD (rapporteur): Jonhatan Mercier, Oct. 2015, Rennes (Martin Hachet)
- PhD (rapporteur): Jean-Claude Morgère, April 2015, Lorient (Pascal Guitton)
- PhD (examineur): Paul-Antoine Arras, Feb. 2015, Bordeaux (Pascal Guitton)
- PhD (examineur): Remy Brouet, March 2015, Grenoble (Martin Hachet)
- PhD (examineur): Gautier Durantin, ISAE, Toulouse (Fabien Lotte)

- HdR (examineur): Julien Pettré, June 2015, Rennes (Pascal Guitton)
- PhD (examineur): Raphaëlle N. Roy, CEA, Grenoble (Fabien Lotte)
- PhD qualification examen ("mi-thèse"): Tracy Brandmeyer, Toulouse (Fabien Lotte)

10.3. Popularization

10.3.1. Job Fairs

- Salon Aquitec (Regional Career Fair), Bordeaux, January 2015 (Anke Brock & Camille Jeunet)

10.3.2. Science Festivals

- Fête de la Science, Talence, September 2015 (Julia Chatain)
- TechFest 2015, Mumbai, India. January. (Jérémy Frey, Jérémy Laviolle)

10.3.3. Popularization Talks

- "Ma Thèse en 180s", Public Prize of the University of Bordeaux Final and regional final, April 2015 (Camille Jeunet)
- "Rencontres Numériques", Cultures scientifiques et techniques, Créteil, October 2015 (Martin Hachet)
- "Peut-on tout contrôler par la pensée", DocForum, Lyon, Lavoisier Public, November 2015 (Fabien Lotte, with Jérémie Mattout and Emmanuel Maby, Inserm Lyon)

10.3.4. Popularization Articles

- "Publication : du papier au numérique", Blog Binaire - Le Monde (Pascal Guitton) [45]
- "Publication : le temps des dérives", Blog Binaire - Le Monde (Pascal Guitton), [46]

10.3.5. Demonstrations

- Augmented Michelson Interferometer, ETOP, June 2015 (David Furio, Martin Hachet).
- Fête du centre: virtual reality demo (Inria), June 2015

10.3.6. Women In Science

- Printemps de la Mixité (Event for High-School Students with the aim to increase the interest in science, specifically in girls), Université de Bordeaux, Mai 2015 (Anke Brock: Organisation for Inria and Panel Talk & Potioc team: Demos)
- Panelist "Témoignages de femmes dans des professions scientifiques des secteurs public et privé et à différents niveaux de carrière" at the Colloque femmes & sciences (women in science annual meeting), Toulouse, November 2015 (Anke Brock)
- Panelist at the "Journées Femmes et Informatique" (women in computing conference) of the Société Informatique de France (French association on computing), Orléans, February 2015 (Anke Brock)
- Panelist "Out of the ordinary jobs in Computer Science" at the ACM womENCourage conference, Uppsala, Sweden, September 2015 (Anke Brock)
- Django Girls, Bordeaux, November 2015 (Julia Chatain)

10.3.7. Inria Media Channels

- Inside Inria Video <https://www.youtube.com/watch?v=8bNS6JHmCwo> (Anke Brock + the whole Potioc team)
- Podcast "Comment améliorer l'accès aux cartographies pour les déficients visuels ?" for Interstices, April 2015 https://interstices.info/jcms/ni_78646/comment-ameliorer-laces-aux-cartographies-pour-les-deficients-visuels (Anke Brock)

TITANE Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

Pierre Alliez was co-chair of the French JGA 2015 (Journées de Géométrie Algorithmique), organized in Cargèse, October 2015.

Florent Lafarge was co-chair of the ISPRS working group on point cloud processing.

10.1.1.2. Member of the organizing committees

Pierre Alliez is a member of the Steering Board of the EUROGRAPHICS Workshop on Graphics and Cultural Heritage. He is also a member of the steering committee of the French chapter of EUROGRAPHICS since 2013.

Yuliya Tarabalka chaired 5 sessions at IEEE IGARSS 2015.

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

Pierre Alliez: EUROGRAPHICS Symposium on Geometry Processing (Graz, Austria) and Digital Heritage 2015.

Florent Lafarge: Laser Scanning 2015 and Digital Heritage 2015.

10.1.2.2. Reviewer

Pierre Alliez was a reviewer for ACM SIGGRAPH, ACM SIGGRAPH Asia, EUROGRAPHICS.

Florent Lafarge was a reviewer for CVPR, ICCV, SIGGRAPH, SIGGRAPH Asia, EUROGRAPHICS, IJCV and JPRS.

Yuliya Tarabalka was a reviewer for the conferences IEEE ICIP 2015, IEEE IGARSS 2015, ICCV 2015, BMVC 2015.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- Pierre Alliez: associate editor of ACM Transactions on Graphics since 2009, Elsevier Graphical Models since 2010, Computer Aided Geometric Design since 2013, and the CGAL library since 2008.
- Florent Lafarge: associate editor of The Visual Computer since 2015.
- Yuliya Tarabalka was a co-editor of the special issue "Hyperspectral Imaging and Image Processing" of the Springer journal Sensing and Imaging.

10.1.4. Invited talks

Florent Lafarge was a keynote speaker at JURSE 2015, Lausanne, Switzerland on March 31 (talk:"Urban reconstruction from airborne data: how to combine semantics and geometry?"), and at Laser Scanning 2015, La grande Motte, France (talk:"Extracting and exploiting planar primitives from Laser scans").

10.1.5. Scientific expertise

Pierre Alliez was a member of the Horizon 2020 Advisory Group for Societal Challenge 6 ‘Europe in a changing world – Inclusive, Innovative and Reflective Societies. He was also an evaluator and reviewer for the H2020 and EuroSTARS programmes from the European commission. He is since October 2015 a member of the panel GEV 01 (mathematics and computer science) of ANVUR (Italian research evaluation agency). We are evaluating the period 2011-2014 through bibliometry and peer-review.

10.1.6. Research administration

Pierre Alliez: member of the BCP (bureau du CP) since 2015, comité MASTIC (popularization), and comité espace immersif.

Florent Lafarge: elected member of the CC “Comité de Centre” since 2013, and a member of the CSD “Commission de Suivi Doctoral” since 2011.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Masters: Pierre Alliez and Florent Lafarge, Ingénierie 3D, 24h, M2, University Nice Sophia Antipolis, France.

Masters: Pierre Alliez and Florent Lafarge, 3D Meshes and Applications, 32h, M2, Ecole des Ponts ParisTech, France.

Masters: Pierre Alliez, Mathématiques pour la géométrie, 24h, M2, EFREI, France.

Masters: Pierre Alliez, Modélisation géométrique, 16h, M2, Télécom SudParis, France.

Masters: Florent Lafarge, Traitement d’images numériques, 9h, M2, University Nice Sophia Antipolis, France.

Masters: Florent Lafarge, Imagerie numérique, 10h, M2, University Nice Sophia Antipolis, France.

L2: Yuliya Tarabalka, Advanced algorithms, 27.75h eq. TD (3h of lectures + 3h of TD + 27h of TP + 1h30 of exam), L2 Networks and Telecoms, IUT Nice Côte d’Azur, Sophia Antipolis, France.

Masters: Yuliya Tarabalka, Digital imaging, 7h eq. TD (2h of lectures + 4h of TD), M2 SVS ISAB, University Nice Sophia Antipolis, France.

10.2.2. Supervision

PhD: Simon Giraudot, Robust surface reconstruction, defended on May 22, Pierre Alliez.

PhD: Sven Oesau, Reconstruction of indoor scenes, defended on June 24, Florent Lafarge and Pierre Alliez.

PhD: Seong-Gyun Jeong, Curvilinear Structure Modeling and its Applications in Computer Vision, University Nice Sophia Antipolis, defended on November 2015, Yuliya Tarabalka and Josiane Zerubia.

PhD in progress: Manish Mandad, Shape approximation with guarantees, since October 2012, Pierre Alliez and David Cohen-Steiner from GEOMETRICA.

PhD in progress: Liuyun Duan, Semantized Elevation Maps, since October 2013, Florent Lafarge.

PhD in progress: Jean-Dominique Favreau, Sketch-based modeling in multi-view context, since October 2014, Florent Lafarge.

PhD in progress: Emmanuel Maggiori, Representation and Analysis of Multisensor Remote Sensing Images with Partition Trees, University Nice Sophia Antipolis, started in January 2015, Yuliya Tarabalka and Pierre Alliez.

10.2.3. Juries

Pierre Alliez:

- Paper and software award committees, EUROGRAPHICS Symposium on Geometry Processing.
- Inria CR2 recruitment committee, Inria Sophia Antipolis.
- PhD Thesis reviewer: Jérémy Levallois (LIRIS).
- PhD Thesis committee: Rodolphe Vaillant (Université Paul Sabatier / University of Victoria).
- PhD Thesis reviewer: Gilles-Philippe Paillé (Université de Montréal).
- PhD Thesis mid-term committee: Ana Vintescu (Télécom ParisTech).

Florent Lafarge:

- Thesis reviewer: Abdoulaye Abou Diakité (Université Lyon1).

Yuliya Tarabalka:

- Expert evaluator for an ANR project submission in May 2015.
- Monitoring committee for the thesis of Amine Bohi, Southern University of Toulon-Var in October 2015.

10.3. Popularization

Pierre Alliez: two seminars in highschoools, participation to the “fête de la science” in Antibes, workshop on 3D reconstruction with Nicolas Douillet and cafe-in (Robust Shape Reconstruction) at Inria Sophia Antipolis.

ALPAGE Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- Laurence Danlos is co-chair of the TALN conference which will be held in Paris in July 2016.

10.1.1.2. Member of organizing committees

- Marie Candito has co-organised (with Jihno Choi and Yannick Versley) the 6th Workshop on Statistical Parsing of Morphologically Rich Languages (SPMRL 2015) in Bilbao, Spain
- Benoît Sagot is the co-organiser (with Olivier Bonami) of the workshop on Computational methods for descriptive and theoretical morphology (CMDTM) to be held during the 17th International Morphology Meeting (IMM 2016) in Vienna, Austria

10.1.2. Scientific events selection

10.1.2.1. Member of conference program committees or reviewer

- Marie Candito has served as reviewer or member of the program committee for the following events: ACL 2015, EMNLP 2015, LAW 2015, DEPLING 2015, RECITAL 2015
- Mathieu Constant has served as member of the program committee for the following events: PARSEME 6, LREC 2016
- Benoit Crabbé has served as a reviewer or member of the program committee for the following events: TALN 2015, RECITAL, DepLing, EMNLP.
- Laurence Danlos has served as a reviewer or member of the program committee for the following events: LREC, TALN
- Corentin Ribeyre has served as a reviewer or member of the program committee for the following event: EMNLP 2015
- Laurent Romary has served as member of the program committee for the following events: LT4VarDial, CMLC-3 (co-located with Corpus Linguistics 2015), SLSP 2015, LREC 2016, DH Conference
- Benoît Sagot has served as a reviewer or member of the program committee for the following events: TALN 2015, LAW 2015, LREC 2016, CMDTM workshop of IMM 2016
- Djamé Seddah has served as a reviewer or member of the program committee for the following events: ACL 2015, CONLL 2015, TLT 2015, LAW 2015, SPMRL 2015
- Éric Villemonte de La Clergerie has served as a reviewer or member of the program committee for the following events: EPIA'15, IJCAI'15, Depling'15, LREC 2016

10.1.3. Journals

10.1.3.1. Member of the editorial boards

- Laurence Danlos has served as a member of the editorial board of the journal *TAL*.
- Laurent Romary is co-editor of the overlay Journal of Data Mining and Digital Humanities and for the DH Commons journal

10.1.3.2. Reviewer - Reviewing activities

- Marie Candito has served as a reviewer for the following journals: Language Resources and Evaluation, Traitement Automatique des Langues
- Benoit Crabbé has served as a reviewer for the following journal: Journal of Language Modelling.
- Laurence Danlos has served as a reviewer for the following journal: Traitement Automatique des Langues
- Laurent Romary has been reviewing for the Language Resources and Evaluation Journal Special Issue on Replicability and Reproducibility of Language Technology Experiments, the Journal on Computing and Cultural Heritage
- Benoît Sagot has served as a reviewer for the following journals: Journal of Language Modeling, Language Resources and Evaluation, Traitement Automatique des Langues
- Djamel Seddah has served as a reviewer for the following journals: Journal of Linguist Modeling, TALLIP (Transactions on Asian and Low-Resource Language Information Processing)
- Éric Villemonte de La Clergerie has served as reviewer for the following journals: Journal of Language Modelling, Language Resource and Evaluation

10.1.4. Invited talks

- Chloé Braud has given an invited talk on 09/03/2015 at Copenhagen University, Lowlands team (Denemark)
- Benoit Crabbé has given two invited talk on 20/04/2015 and 21/04/2015 at Université de Genève, CLCL group and department of Linguistics (Switzerland)
- Corentin Ribeyre has given an invited talk on 31/08/2015 at Université de Genève, CLCL group (Switzerland)
- Laurent Romary gave an introductory talk for the launch of the Maltese chapter of DARIAH in Valetta, Malta on 03/09/2015
- Laurent Romary gave an introductory talk for the launch of the Serbian chapter of DARIAH in Belgrade, Serbia on 10/12/2015, in the presence of the Ministry of Culture and Ministry of Higher Education and Research of Serbia
- Laurent Romary has given a keynote at the DiXiT Convention week on 17/09/2015 in The Hague, Netherlands (hal-01254365)
- Laurent Romary has given a keynote at the Spanish DH conference in Madrid, Spain on 06/10/2015
- Laurent Romary has given an invited talk on 24/09/2015 at the 1st Workshop on Digital Humanities in Prag, Czech Republic
- Benoit Crabbé has given an invited talk on 5/11/2015 at the Institut fuer Sprache und Information at Heinrich-Heine Universitaet Duesseldorf
- Laurent Romary has given an invited talk on 16/11/2015 at the Intangible Cultural Heritage and Innovation Symposium in Berlin (ITN DCH network)
- Laurent Romary gave the welcoming talk for the launch of the Digital Humanities Laboratory at the University of Warsaw on 10/12/2015
- Laurent Romary was invited to the final panel of the 10 year anniversary of the HAL-SHS portal on 18/12/2015
- Éric Villemonte de La Clergerie has given an invited talk on 09/07/2015 at Montpellier (LIRMM).
- Éric Villemonte de La Clergerie has given an invited talk and participated to a panel during the colloquium "Technologies pour les Langues Régionales de France" organized by DGLFLF (Meudon, February 19-20, 2015).
- Éric Villemonte de La Clergerie has given a talk and participated to a panel on "Humains, Algorithmes et data-sciences" during the GFII forum (Paris, December 7-9th 2015)

10.1.5. Leadership within the scientific community

10.1.5.1. Involvement in international initiatives

- Djamé Seddah is playing a key role in the SPMRL initiative that was initiated during the IWPT'09 conference organised in Paris by Alpage, which involves several leading international teams. As a result, Alpage members have served as programme co-chair or member of all editions of the successful SPMRL Workshop and Shared Task series hosted successively by NAACL-HLT (2010), IWPT (2011), ACL (2012) [103], EMNLP (2013) [104], CoLing (2014) and IWPT (2015). Djamé Seddah also served as a co-editor of a special issue of *Computational Linguistics* on this topic [108].
- Alpage is involved in the ISO subcommittee TC 37/SC 4 on “Language Resource Management”. Éric Villemonte de La Clergerie has participated in various ISO meetings as an expert, in particular on morpho-syntactic annotations (MAF), feature structures (FSR & new FSD), and syntactic annotations (SynAF) [48]. Within the same subcommittee, Laurent Romary is the convenor of the working group on lexical resources (WG4).
- Éric de La Clergerie is the Secretary of SIGParse, the Association for Computational Linguistics (ACL) Special Interest Group in natural language parsing.
- Mathieu Constant is a member of the International Advisory Board of SIGFSM, the Association for Computational Linguistics (ACL) Special Interest Group in Finite-State Methods.
- Laurent Romary heads the Board of Directors of the European Research Infrastructure Consortium DARIAH established by the European Commission to coordinate Digital Humanities infrastructure activities in Europe.
- Laurent Romary is member of the TEI Archiving, Publishing, and Access Service (TAPAS) project advisory board
- Laurent Romary is member of the International Advisory board of the Belgrade Center for Digital Humanities
- Mathieu Constant serves as a member of the Management Committee and as a substitute member of the Steering Committee of the European COST action PARSEME

10.1.5.2. Involvement in national initiatives

- Alpage has many responsibilities within the LabEx EFL. Until February 2015, Benoît Sagot served as head of the research strand on language resources, and was therefore a member of the Governing Board and of the Scientific Board; since then, he is deputy head of this research strand, and therefore deputy member of both boards; Marie Candito is deputy head of the research strand on computational semantics; Benoît Crabbé is deputy head of the research strand on experimental grammar; Laurence Danlos is a member of the Scientific Board of the LabEx EFL, representing Alpage;
- Benoît Sagot is in charge of the scientific and technical aspects of the development of the future Corpus de Référence du Français (French Reference Corpus), a project initiated and funded by the Institut de Linguistique Française;
- Benoît Sagot is a member of the scientific board of the consortium Corpus Écrits, which belongs to the TGIR Huma-Num;
- Benoît Sagot is a member of the executive board of the Institut de Linguistique Française, a CNRS federation of research teams involved in French linguistics;
- Laurent Romary is the leader of the scientific committee of the EquipEx Ortolang, of which Benoît Sagot is also a member.
- Laurent Romary is chairman of the scientific council of ABES (Agence Bibliographique de l'Enseignement Supérieur)
- Laurent Romary is also member of several scientific committees: Labex ‘Les passes dans le présent’ (PasP), ABES (Agence Bibliographique de l'Enseignement Supérieur, chair), OpenAIRE 2020 Advisory Board, OpenEdition (UMS Cleo)

- Laurent Romary is the Inria scientific advisor for Scientific and Technical Information, in charge in particular of the Open Access strategy.

10.1.5.3. Other activities for the scientific community

- Éric de La Clergerie and Benoît Sagot have served as project reviewers for ANR
- Benoît Sagot and Djamé Seddah are elected board members of the French NLP society (ATALA)
- Laurence Danlos and Benoît Sagot are members of the Permanent Committee of the TALN conference organised by ATALA

10.1.6. Scientific expertise

- Laurent Romary has advised the European Patent Office for the specification of their model for representing the patent information, based on recommendations by the TEI (Text Encoding Initiative). This model is now used for representing a database containing 200 million documents associated with over 2 billion of individual annotations.
- Éric Villemonte de La Clergerie has participated to several AFNOR meetings in relation with ISO TC37SC4 “Language Resource Management”

10.1.7. Research administration

10.1.7.1. University duties

- Lucie Barque is deputy director of the Linguistic department at Université Paris Nord
- Laurence Danlos is a member of the Scientific Committee of the Linguistics UFR of University Paris Diderot, which she chairs since 2014.
- Laurence Danlos is the deputy chair of the Doctoral School for Linguistic Sciences (École Doctorale de Sciences du Langage).
- Benoit Crabbé and Laurence Danlos are members of the Administrative board of the UFR of Linguistics of University Paris Diderot.
- Marie Candito is deputy director of the UFR of Linguistics.
- Within the Computational Linguistic curriculum at Université Paris–Diderot (L3 to M2), Laurence Danlos is in charge of the M2 and coordinates the whole curriculum, and Benoit Crabbé is in charge of the L3 year.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Licence: Lucie Barque, Sémantique lexicale, 22,5 heures en équivalent TD, niveau L2, Université Paris 13, France

Licence: Lucie Barque, Phonétique, 22,5 heures en équivalent TD, niveau L2, Université Paris 13, France

Licence: Lucie Barque, Dictionnaires électroniques, 22,5 heures en équivalent TD, niveau L2, Université Paris 13, France

Licence: Lucie Barque, Syntaxe et sémantique, 22,5 heures en équivalent TD, niveau L3, Université Paris 13, France

Licence: Lucie Barque, Introduction aux sciences du langage, 22,5 heures en équivalent TD, niveau L3, Université Paris 13, France

Licence: Marie Candito, Linguistique de corpus, 28 heures en équivalent TD, niveau L3, Université Paris Diderot, France

Licence: Marie Candito, Probabilités et statistiques pour le TAL, 28 heures en équivalent TD, niveau L3, Université Paris Diderot, France

Licence: Maximin Coavoux, Programmation 2, 28 heures en équivalent TD, niveau L3, Université Paris Diderot, France

Licence: Benoit Crabbé, Introduction à la programmation, 24 heures en équivalent TD, niveau L3, Université Paris Diderot, France.

Licence: Laurence Danlos, Introduction au TAL, 32 heures en équivalent TD, niveau L3, Université Paris-Diderot, France

Licence: Corentin Ribeyre, TD d'Algorithmique, 24 heures en équivalent TD, niveau L3, Université Paris 7 Diderot, France

Master: Lucie Barque, Ressources lexicales pour le TAL, 24 heures en équivalent TD, niveau M2, Université Paris 13, France

Master: Timothée Bernard, Phonétique (TD), 12 heures en équivalent TD, niveau M1, Université Paris Diderot, France

Master: Timothée Bernard, Langages formels (TD), 24 heures en équivalent TD, niveau M1, Université Paris Diderot, France

Master: Marie Candito, Analyse sémantique automatique du langage naturel, 14 heures en équivalent TD, niveau M2, Université Paris Diderot, France

Master: Marie Candito, Traduction automatique, 51 heures en équivalent TD, niveau M1, Université Paris Diderot, France

Master: Marie Candito, Apprentissage automatique pour le TAL, 60 heures en équivalent TD, niveau M1, Université Paris Diderot, France

Master: Maximin Coavoux, Approches probabilistes du TAL (TD), 24 heures en équivalent TD, niveau M1, Université Paris Diderot, France

Master: Benoit Crabbé, Linguistique empirique et expérimentale, 24 heures en équivalent TD, niveau M2, Université Paris Diderot, France.

Master: Laurence Danlos, Discours: Analyse et génération de textes, 32 heures en équivalent TD, niveau M2, Université Paris-Diderot, France

Master: Marianne Djemaa, Sémantique Computationnelle (TD), 24 heures en équivalent TD, niveau M1, Université Paris 7, France

Master: Corentin Ribeyre, TD de Langages Formels, 24 heures en équivalent TD, niveau M1, Université Paris 7 Diderot, France

Master: Benoît Sagot, Analyse syntaxique du langage naturel, 28 heures en équivalent TD, niveau M1, Université Paris 7, France

10.2.2. Supervision

PhD in progress: Timothée Bernard, "Analyse discursive et factualité", started in September 2015, supervised by Laurence Danlos (supervisor) and Philippe de Groote (co-supervisor)

PhD: Marion Baranes, "Normalisation de textes bruités", started in January 2012, supervised by Laurence Danlos (supervisor) and Benoît Sagot (co-supervisor), defended on 23 October 2015

PhD: Valérie Hanoka, "Extraction et Structuration de Terminologie Multilingue", started in January 2011, supervised by Laurence Danlos (supervisor) and Benoît Sagot (co-supervisor), defended on 6 July 2015

PhD: Emmanuel Lassalle, "Structured learning for coreference resolution: a joint approach", Université Paris-Diderot, started in October 2010, supervised by Laurence Danlos (supervisor) and Pascal Denis (co-supervisor), defended on 11 May 2015

PhD: Chloé Braud, "Analyse discursive : les relations implicites", Université Paris-Diderot, started in October 2011, supervised by Laurence Danlos (supervisor) and Pascal Denis (co-supervisor), defended on 18 December 2015

PhD: Quentin Pradet, “Annotations en rôles sémantiques du français en domaine spécifique”, Université Paris-Diderot, started in October 2011, supervised by Laurence Danlos (supervisor) and Gael de Calendar (co-supervisor), defended on 6 February 2015

PhD: Isabelle Dautriche, “Exploring early syntactic acquisition: a experimental and computational approach”, started in September 2012, supervised by Anne Christophe (LSCP, supervisor) and Benoit Crabbé (co-supervisor), defended on 18/09/2015

PhD in progress: Raphael Salmon, “Implémentation d’un système de génération à base de contraintes”, Université Paris-Diderot, started in October 2013, supervised by Laurence Danlos (supervisor) and Alain Kaeser (co-supervisor)

PhD in progress: Marianne Djemaa, “Création semi-automatique d’un FrameNet du français”, started in October 2012, supervised by Marie Candito

PhD in progress: Corentin Ribeyre, “Vers la syntaxe profonde pour l’interface syntaxe-sémantique”, started in November 2012, supervised by Laurence Danlos (supervisor), Djamé Seddah (co-supervisor) and Éric Villemonte de La Clergerie (co-supervisor). from data driven approaches to graph based approaches.

PhD in progress: Maximin Coavoux, “Représentations continues pour l’analyse syntaxique et sémantique automatique”, started in September 2015, supervised by Benoit Crabbé.

10.2.3. Juries

- Mathieu Constant served as a reviewer (*rapporteur*) in the PhD defense committee of Seyed Abolghasem Mirroshandel. Title: Towards Less-Supervision in Dependency Parsing. University: Aix-Marseille Université. PhD supervisor: Alexis Nasr. Defense date: 10 December 2015.
- Laurence Danlos and Benoît Sagot served as a member in the PhD defense committee of Valerie Hanoka, respectively as supervisor and co-supervisor. Title: Extraction et complétion de terminologie multilingue. University: Université Paris-Diderot. Defense date: 6 July 2015.
- Laurence Danlos and Benoît Sagot served as a member in the PhD defense committee of Marion Baranes, respectively as supervisor and co-supervisor. Title: Normalisation automatique de textes bruités. University: Université Paris-Diderot. Defense date: 23 October 2015.
- Éric Villemonte de La Clergerie served as a member in the PhD defense committee of Jérôme Kirman. Title: Mise au point d’un formalisme syntaxique de haut niveau pour le traitement automatique des langues. PhD supervisors: Sylvain Salvati and Lionel Clément. Defense date: November 4th 2015 (Bordeaux)
- Éric Villemonte de La Clergerie served as a member in the mid-term PhD defense committee of Suzanne Mpouli. Title: Automatic Detection and Analysis of Figurative Similes in Literary Texts. PhD Supervisor: Jean-Gabriel Ganascia. Defense date: July 9th 2015 (Paris)
- Éric Villemonte de La Clergerie served as a reviewer for the PhD dissertation of Daniel Fernández-González. Title: Improvements to the performance and applicability of dependency parsing. PhD supervisors: Manuel Vilares Ferro and Carlos Gómez-Rodríguez. University of Coruña (Spain)

MULTISPEECH Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

General co-chair, 3rd CHiME Speech Separation and Recognition Challenge, Scottsdale, USA, December 2015 (E. Vincent)

Elected chair, Steering Committee of the Latent Variable Analysis and Signal Separation (LVA/ICA) conference series (E. Vincent)

Chair, Challenges Subcommittee, IEEE Technical Committee on Audio and Acoustic Signal Processing (E. Vincent)

Co-chair, special session on Audio for Robots – Robots for Audio, 2015 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (E. Vincent)

Co-chair, Workshop-satellite event of ICPhS2015. Phonetic Learner Corpora. Glasgow, GB, 08/12/15 (A. Bonneau)

10.1.1.2. Special session organisation

Special session Structuring Multimedia Streams, International Conference on Information Systems & Economic Intelligence, Hammamet, Tunisia, February 2015 (I. Illina, D. Fohr)

Co-organiser Workshop-satellite event of ICPhS2015. Phonetic Learner Corpora. Glasgow, GB, 08/12/15 (A. Bonneau)

10.1.1.3. Member of organizing committees

Member of the organizing committee, FAAVSP - The 1st Joint Conference on Facial Analysis, Animation and Auditory-Visual Speech Processing (S. Ouni)

10.1.2. Scientific events selection

10.1.2.1. Chair of conference program committees

Program chair, 12th International Conference on Latent Variable Analysis and Signal Separation (LVA/ICA), Liberec, Czech Republic, August 2015 (E. Vincent) [71]

10.1.2.2. Member of conference program committees

Area chair for Analysis of Speech and Audio Signal, INTERSPEECH'2015 (D. Juvet)

Area chair for Audio and Speech Source Separation, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (E. Vincent)

IROS'2015 - 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (D. Juvet)

ICNLSP'2015 - International Conference on Natural Language and Speech Processing (D. Juvet)

FAAVSP - The 1st Joint Conference on Facial Analysis, Animation and Auditory-Visual Speech Processing (S. Ouni)

10.1.2.3. Reviewer

EUSIPCO'2015 - European Signal Processing Conference (D. Juvet)

ICNLSP'2015 - International Conference on Natural Language and Speech Processing (D. Juvet)

INTER_SPEECH'2015 (I. Illina, A. Bonneau, S. Ouni, Y. Laprie)

ICASSP'2016 - 41th International Conference on Speech, Acoustic and Signal Processing (D. Juvet, S. Ouni, Y. Laprie)

FAAVSP - The 1st Joint Conference on Facial Analysis, Animation and Auditory-Visual Speech Processing (S. Ouni)

10.1.3. Journal

10.1.3.1. Member of editorial boards

Speech Communication (D. Juvet)

Traitement du signal (E. Vincent)

Computer Speech and Language, special issue on Multi-Microphone Speech Recognition in Everyday Environments (E. Vincent)

Eurasip Journal on Audio, speech and music processing (Y. Laprie)

10.1.3.2. Reviewer - reviewing activities

IEEE Transactions on Audio, Speech, and Language Processing (D. Juvet)

Journal of Phonetics (Y. Laprie)

Journal of the Acoustical Society of America (Y. Laprie)

IEEE Signal Processing Letters (Y. Laprie)

10.1.4. Invited talks

Keynote, 2015 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (E. Vincent) [85]

Lecture, LVA/ICA 2015 Summer School on Latent Variable Analysis and Signal Separation (E. Vincent) [84]

Invited talk, Expressive Virtual Actors workshop, Nov 2015, Grenoble, France (S. Ouni) [22]

Reconnaissance de la parole, application aux personnes sourdes et malentendantes. Inria Scientific Days 2015. Nancy-Inria Grand-Est, June 19th 2015 (A. Piquard-Kipffer)

Dyslexie-dysorthographe et situation de handicap. Journées des dys, AFON. Vandœuvre-Lès-Nancy, Faculty of Medicine, October 20th 2015 (A. Piquard-Kipffer)

Invited talk, Contribution of the acoustic cues to the non-native accent, Spring ASA meeting Pittsburgh (Y. Laprie) [20]

10.1.5. Leadership within the scientific community

Elected chair, ISCA Special Interest Group on Robust Speech Processing (E. Vincent)

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

DUT: Irina Illina, Programming in Java, 150 hours, L1, University of Lorraine, France

DUT: Irina Illina, Linux System, 65 hours, L1, University of Lorraine, France

DUT: Irina Illina, Supervision of student projects and stages, 50 hours, L2, University of Lorraine, France

DUT: Slim Ouni, Programming in Java, 24 hours, L1, University of Lorraine, France

DUT: Slim Ouni, Web Programming, 24 hours, L1, University of Lorraine, France

DUT: Slim Ouni, Graphical User Interface, 96 hours, L1, University of Lorraine, France

DUT: Slim Ouni, Advanced Algorithms, 24 hours, L2, University of Lorraine, France

Licence: Vincent Colotte, C2i - Certificat Informatique et Internet, 50h, L1, University of Lorraine, France

Licence: Vincent Colotte, System, 115h, L3, University of Lorraine, France

Licence: Joseph Di Martino, Programming in C 1, 67 hours, L1, University of Lorraine, France

Licence: Joseph Di Martino, Programming in C 2, 85 hours, L2, University of Lorraine, France

Licence: Joseph Di Martino, Programming in C/C++, 45 hours, L3, University of Lorraine, France

Licence: Odile Mella, C2i - Certificat Informatique et Internet, 28h, L1, University of Lorraine, France

Licence: Odile Mella, Introduction to Web Programming, 30h, L1, University of Lorraine, France

Licence: Odile Mella, Computer Networking, 81h, L2-L3, University of Lorraine, France

Licence: Agnès Piquard-Kipffer, Psycholinguistics, 30 hours, L1, University of Lorraine, France

Licence: Agnès Piquard-Kipffer, Reading and Writing, 24 hours, L2, Département Orthophonie, University of Lorraine, France

Master: Vincent Colotte, Introduction to Speech Analysis and Recognition, 18h, M1, University of Lorraine, France

Master: Vincent Colotte, Supervising student in research internship, M2, University of Lorraine, France

Master: Yves Laprie, Analysis, Perception and recognition of speech, 30 hours, M1, University of Lorraine,

Master: Odile Mella, Computer Networking, 66h, M1, University of Lorraine, France

Master: Odile Mella, Supervising students in company internship, M2, University of Lorraine, France

Master: Slim Ouni, Multimedia in Distributed Information Systems, 31 hours, M2, University of Lorraine, France

Master: Agnès Piquard-Kipffer, Dyslexia, 25 hours, Département Orthophonie, University of Lorraine, France

Master: Agnès Piquard-Kipffer, Deaf People and Reading, 9 hours, Département Orthophonie, University of Lorraine, France

Master: Agnès Piquard-Kipffer, Psycholinguistics, 12 hours, Département Orthophonie, University Pierre et Marie Curie-Paris, France

Master: Agnès Piquard-Kipffer, Psychology, 70 hours, ESPE, University of Lorraine, France

Master: Agnès Piquard-Kipffer, French Language Didactics, 80 hours, ESPE, University of Lorraine, France

Master: Agnès Piquard-Kipffer, Psychology, 6 hours, University Blaise Pascal, Clermont-Ferrand, France

Ecole Audioprothèse: Anne Bonneau, Phonétique, 16 hours, Université de Lorraine, France

School of engineers: Vincent Colotte, XML, 20h, Telecom Nancy, France

Doctorat: Piquard-Kipffer Agnès, Language Pathology, 15 hours, EHESP, University of Sorbonne-Paris Cité, France

Adults: Odile Mella, Computer science courses for secondary school teachers (Informatique et Sciences du Numérique courses) (10h), ESPE of Academy Nancy-Metz, University of Lorraine, France

Other: Vincent Colotte, Responsible for "Certificat Informatique et Internet" for the University of Lorraine, France (50000 students, 30 departments)

10.2.2. Supervision

PhD: Xavier Jaureguiberry, "Fusion pour la séparation de sources audio", Télécom ParisTech, 16 June 2015, Gaël Richard and Emmanuel Vincent [8].

PhD : Dung Tran, "Uncertainty learning for noise robust ASR", University of Lorraine, 20 November 2015, Emmanuel Vincent and Denis Juvet [11].

PhD: Nathan Souviraà-Labastie, "Détection de motifs audio pour la séparation de sources guidée. Application aux bandes-son de films.", University Rennes 1, 23 November 2015, Frédéric Bimbot and Emmanuel Vincent [10].

PhD : Luiza Orosanu, "Speech recognition for helping communication for deaf or hard-of-hearing people", University of Lorraine, 11 December 2015, Denis Juvet [9].

PhD in progress: Imran Sheikh, "OOV proper name retrieval", February 2014, Irina Illina and Georges Linares.

PhD in progress: Baldwin Dumortier, "Contrôle acoustique d'un parc éolien", September 2014, Emmanuel Vincent and Madalina Deaconu.

PhD in progress: Quan Nguyen, "Mapping of a sound environment by a mobile robot", November 2014, Francis Colas and Emmanuel Vincent.

PhD in progress: Aditya Nugraha, "Deep neural networks for source separation and noise-robust speech recognition", January 2015, Antoine Liutkus and Emmanuel Vincent.

PhD in progress: Ken Deguernel, "Apprentissage de structures musicales en situation d'improvisation", March 2015, Emmanuel Vincent and Gérard Assayag.

PhD in progress: Amal Houdidhek, "Élaboration et analyse d'une base de parole arabe pour la synthèse vocale", November 2015, Denis Juvet and Vincent Colotte (France) and Zied Mnasri (Tunisia).

PhD in progress: Imène Zangar, "Amélioration de la qualité de synthèse vocale par HMM pour la parole arabe", November 2015, Denis Juvet and Vincent Colotte (France) and Zied Mnasri (Tunisia).

10.2.3. Participation in HDR and PhD juries

Participation in Habilitation thesis Jury for Pavel Král (University of West Bohemia, May 2015), D. Juvet, reviewer.

Participation in PhD thesis Jury for Grégor Dupuy (Université du Maine, July 2015), D. Juvet.

Participation in PhD thesis Jury for Sarah Flora Samson Juan (Université de Grenoble, July 2015), D. Juvet, reviewer.

PhD thesis reviewer for Marc Evrard (Université de Paris Sud, September 2015), Y. Laprie.

PhD thesis reviewer for Heikki Kallasjoki (Aalto University, Finland, October 2015), E. Vincent.

Participation in PhD thesis Jury for Adela Barbulescu (Université de Grenoble, November 2015), S. Ouni.

10.2.4. Participation in other juries

Chairman of Scientific « Baccalauréat », specialty Earth Sciences (Académie de Nancy-Metz and Université de Lorraine, June 2015), A. Piquard-Kipffer.

Participation in PGCE (french CAFIPEMF) Juries for Master Learning Facilitator (DSDEN 54, April, June 2015), A. Piquard-Kipffer.

Participation in the Competitive Entrance Examination into Speech-Language Pathology Department (University of Lorraine, June 2015), A. Piquard-Kipffer.

10.2.5. Participation to external committees

Member of the Scientific Committee of an Institute for deaf people (La Malgrange), A. Piquard-Kipffer

Member of an expertise Committee for specific language disabilities (MDPH 54), A. Piquard-Kipffer

Titular member of the National Council of Universities (CNU section 61), E. Vincent.

Member of the "Conseil de secteur IAEM" at the Faculté de sciences et technologie- Université de Lorraine, V. Colotte

Elected member, and member of the board of the "Conseil du pôle AM2I" Université de Lorraine, Y. Laprie

10.2.6. Participation to internal committees

Titular member of the "Comité de Centre Inria", E. Vincent

Member of the Comipers, E. Vincent

Member of the "Comité Espace Transfert", E. Vincent

Member of the "Commission locale de développement durable", D. Fohr

Head of the "Commission des utilisateurs des moyens informatiques" (CUMI), D. Fohr

Member of the "Bureau de la Commission de Mention Informatique", I. Illina

Member of the "Commission de développement technologique", A. Bonneau

Elected member of the "Conseil de Laboratoire" (LORIA), S. Ouni

Appointed member of the "Conseil de Laboratoire" (LORIA), Y. Laprie

Appointed member at "Conseil de la Fédération Charles Hermite", S. Ouni

10.3. Popularization

Demonstration at Forum des métiers, Collège Peguy, Le Chesnay, March 2015 (A. Piquard-Kipffer).

Demonstration at Village Sciences LORIA, April 2015 (S. Ouni, J. Di Martino).

Demonstration at Science & You, Nancy, June 2015 (K. Deguernel, E. Vincent).

Demonstration to students of the Master Erasmus Mundu Program DESEM, Inria, July 2015 (Y. Laprie).

Demonstration at Fête de la Science, Artem, October 2015 (A. Liutkus, N. Souviraà-Labastie, E. Vincent).

Demonstration to students of ENS Cachan, Inria, December 2015 (S. Ouni, E. Vincent).

Les troubles Dys : la dyslexie-dysorthographe. Conf' curieuses, Museum & Aquarium of Nancy, Grand Nancy & University of Lorraine. Nancy, January 15th 2015 (A. Piquard-Kipffer).

“Séparation de sources audio”, Interstices, to appear (A. Liutkus and E. Vincent).

“Loria : un articulographe pour étudier la production de la parole”, Eureka Lorraine, 21/10/2015 (S. Ouni).

PANAMA Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

Rémi Gribonval is a member of the IEEE Technical Committee on Signal Processing Theory and Methods (2012–2014), and a member of the Awards sub-committee.

Rémi Gribonval is a member of the program committee of the GRETSI.

Rémi Gribonval is a member of the Steering Committee of the SPARS international workshop (chairman until 2013).

Frédéric Bimbot is the Head of the "Digital Signals and Images, Robotics" in IRISA (UMR 6074).

Frédéric Bimbot is a member of the International Advisory Council of ISCA (International Speech Communication Association).

Rémi Gribonval and Frédéric Bimbot are the scientific coordinators of the Science and Music Day (Journée Science et Musique) organized by IRISA.

R. Gribonval was a keynote speaker at LVA/ICA15, and a tutorial speaker at IEEE-SchoolOfICASSP15.

R. Gribonval is guest editor of a special issue of IEEE Journal on Selected Topics in Signal Processing, on Structured Matrices in Signal and Data Processing.

R. Gribonval was vice-president of the jury of the GDR ISIS / GRETSI / Club EAA thesis prize in signal and image processing 2014.

Nancy Bertin is a member of the IEEE Technical Committee on Audio and Acoustic Signal Processing (2013–2015).

Nancy Bertin and Frédéric Bimbot guest edited a special issue of the journal "Traitement du Signal" (Lavoisier).

Laurent Albera is substitute member of the french national board of universities (section 61) (2015-2019).

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Licence : N. Bertin, "Discovery of selected topics in audio signal processing research", 9 hours, L3, École Supérieure de Réalisation Audiovisuelle (ESRA), France.

Master : N. Bertin, "Audio rendering, coding and source separation", 9 hours, M2, Université Rennes 1, France.

Master : N. Bertin, "Audio indexing and classification", 9 hours, M2, Université Rennes 1, France.

Master : N. Bertin, "Fundamentals of Signal Processing", 24 hours, M1, Ecole Normale Supérieure de Bretagne, Rennes, France.

Master : R. Gribonval, "Signal and image representations", 8 hours, M2, Université Rennes 1, France.

Master: R. Gribonval, coordination of the ARD module "Acquisition et Représentation de Données", M2, Université Rennes 1, France.

Laurent Albera gives lectures in Mathematics and in Signal Processing, and he supervises end of school year projects, mainly at the university of Rennes 1:

Licence: L. Albera, "Mathematics for electronics", 6 hours, L2, Université Rennes 1, France.

Licence: L. Albera, "Mathematics for electronics", 21 hours, L3, Université Rennes 1, France.

Licence: L. Albera, "Mathematics", 53 hours, L3, Ecole Supérieure d'Ingénieurs de Rennes, France

Master: L. Albera, "Cardiac source localization from ECG signals", project supervision (with Ansys), M2, Ecole Supérieure d'Ingénieurs de Rennes, France.

Master : L. Albera, "Blind equalization", 4.5 hours, M2, Université Rennes 1, France.

Master : L. Albera, "Inverse problems", 3 hours, M2, Université Rennes 1, France.

Laurent Albera is responsible of the "Signal Processing" branch of the SISEA (Signal, Images, Embedded Systems and Control) Master 2 of University of Rennes 1.

10.3. Popularization

10.3.1. *Journée science et musique*

Participants: Nicolas Keriven, Luc Le Magoarou, Stéphanie Lemaile, Frédéric Bimbot, Rémi Gribonval, Gilles Puy, Nancy Bertin, Corentin Guichaoua, Srdan Kitic, Ewen Camberlein, Romain Lebarbenchon, Nathan Souviraà-Labastie.

with contributions and support from: Valérie Gouranton, Laurent Perraudeau, Nathalie Denis, Evelyne Orain, Julie Newton, Agnès Cottais, Cagdas Bilen, and many more.

PANAMA coordinated the organization of a public event called "Journée Science et Musique" (Day of Music and Science). This yearly event organized by the METISS/ PANAMA Team since 2011 aims at sharing with the wide audience the latest innovations and research projects in music. The motivation for hosting this event is to explain and promote the technology behind audio-processing that people face in their daily lives. The event is free to everyone and people have the possibility to attend talks by selected speakers or meet numerous experts that demonstrate current projects in which people can interactively participate. Edition 2015 hosted more than 250 visitors and was the official opening event of the "Festival des Sciences" week in Rennes.

10.3.2. *Radio and press*

Nancy Bertin and Rémi Gribonval co-authored a popularization article about compressed acoustic holography (with L. Daudet and F. Ollivier). It was published in the journal "Pour la Science" in May 2015 [46].

Nancy Bertin was interviewed for the local press (Rennes Métropole journal) at the occasion of "Journée Science et Musique".

SEMAGRAMME Project-Team

8. Dissemination

8.1. Promoting Scientific Activities

8.1.1. Scientific events organisation

8.1.1.1. General chair, scientific chair

- Maxime Amblard organized the workshop (In)Cohérence du discours 3, with the SLAM project (Schizophrenia and Language: Analysis and Modeling).

The objective of the workshop was to discuss the latest advances in the modelling of discourses in particular those with pathological issues. The adopted modeling paradigm is that of formal semantics, which falls within the scope of both linguistics and logic while also making ties to the philosophy of language.

- Maxime Amblard co-organized with Karen Fort and Gilles Adda the first workshop ETeRNAL about ethics in natural language processing.

8.1.1.2. Member of the organizing committees

- Maxime Amblard and Jiří Maršík were members of the organization committee of the workshop (In)Cohérence du discours 3.

8.1.2. Scientific events selection

8.1.2.1. Chair of conference program committees

- Philippe de Groote and Sylvain Pogodalla are members of the steering committee of the international conference series *Logical Aspects of Computational Linguistics (LACL)*.
- Maxime Amblard is member of the steering committee of the workshop (In)Coherence of Discourse

8.1.2.2. Member of the conference program committees

- Guy Perrier was member of the program committee of the ACL workshop “Grammar Engineering Across Frameworks” (GEAF2015), 30 July 2015, Beijing (China).
- Philippe de Groote was member of the program committee of the 20th Conference on Formal Grammar (Barcelona, Spain, August 8–9, 2015).

8.1.2.3. Reviewer

- Maxime Amblard:
 - Reviewer for Traitement Automatique des Langues Naturelles (TALN) 2015
 - Reviewer for Journées de Phonétique Clinique (JPC) 6
 - Reviewer for (In)Cohérence du discours 3
 - Reviewer for the workshop ETeRNAL 1
- Sylvain Pogodalla:
 - Reviewer for the international workshop on *Logic and Engineering of Natural Language Semantics 12 (LENLS12)*.
- Bruno Guillaume:
 - Reviewer for the international conference *Language Resources and Evaluation Conference (LREC 2016)*.

8.1.3. Journal

8.1.3.1. Member of the editorial boards

- Philippe de Groote:
 - Area editor of the *FoLLI-LNCS series*.
 - Associate editor of *Higher-Order and Symbolic Computation*.
 - Member of the editorial board of *Cahiers du Centre de Logique*.
- Sylvain Pogodalla: Member of the editorial board of the journal **Traitement Automatique des Langues**, in charge of the *Résumés de thèses* section.

8.1.3.2. Reviewer - Reviewing activities

- Maxime Amblard: Reviewer for the special issue of the TAL revue (55-3) 'TAL et Cognition'
- Guy Perrier: reviewer for the *Journal of Logic, Language and Information*.
- Sylvain Pogodalla:
 - reviewer for the **Computational Linguistics**.
 - reviewer for **Linguistic Issues in Language Technology LiLT**

8.1.4. Scientific expertise

- Maxime Amblard has provided scientific evaluation for the AAP ASTRID (Accompagnement spécifique des travaux de recherches et d'innovation défense)

8.1.5. Research administration

Maxime Amblard is member of:

- Scientific council of the Univ. Lorraine
- board of the Scientific council of the Univ. Lorraine
- Lab council (LORIA)
- management council of the "Maison des sciences de l'homme" MSH-Lorraine

Maxime Amblard is the head of the master second year in Natural Language Processing.

Bruno Guillaume is the head of the department Natural Language Processing and Knowledge Discovery.

Bruno Guillaume was one of the two animators of the CPER 2015-2020 project "Langues, Connaissances et Humanités Numériques" (Languages, Knowledge and Digital Humanities) in which ten laboratories of the Université de Lorraine are implied.

Bruno Guillaume is an elected member of the "Pôle scientifique AM2I" of the Université de Lorraine.

Bruno Guillaume is a member of the Comipers (Inria committee for PhD and Post-doctoral selection).

8.2. Teaching - Supervision - Juries

8.2.1. Teaching

Licence: Maxime Amblard, Traitement Automatique des Langues, 3h, L1, Univ. Lorraine, France

Master: Maxime Amblard, Formalisms: from Syntax to Discourse, 50h, M2, Univ. Lorraine, France

Master: Maxime Amblard, Remise à niveau TAL, 5h, M2, Université de Lorraine, France

Master: Maxime Amblard, Algorithms for Artificial Intelligence, 43h, M1, Univ. Lorraine, France

Master: Philippe de Groote, Formal logic, 35h, M2, Université de Lorraine, France

Master: Philippe de Groote, Computational structures and logics for natural language modeling, 18h, M2, Université Paris Diderot, France

Licence: Bruno Guillaume, Algorithmique et programmation, 44h, L1, Université de Lorraine, France

Master: Bruno Guillaume, Linguistic resources and NLP toolchain, 30h, M2, Université de Lorraine, France

Licence: Jiří Maršík, Ingénierie linguistique, 25h, L3, Université de Lorraine, France

Master: Jiří Maršík, IA fondamentale : représentation des connaissances et fouille de données, 11.5h, M1, Université de Lorraine, France

Master: Jiří Maršík, Communication scientifique, 15.5h, M1, Université de Lorraine, France

Master: Jiří Maršík, Cognitive Aspect of Computational Linguistic, 31.5h (15h in English and 16.5h in French), M2, Université de Lorraine, France

Master: Jiří Maršík, Remise à niveau TAL, 10h, M2, Université de Lorraine, France

Master: Sylvain Pogodalla, Formal Language Theory, 27.5h, M2, Univ. Lorraine, France

8.2.2. Supervision

- PhD in progress: Clément Beysson, "Quantificateurs généralisés dynamiques pour l'analyse discursive", since september 2015, Philippe de Groote and Bruno Guillaume
- PhD in progress: Jiří Maršík, "Modeling Discourse in a Dynamics framework: formal integration and evaluation", since september 2013, Philippe de Groote and Maxime Amblard
- PhD in progress : Aleksandre Maskharashvili, "Generation and Discourse with Abstract Categorical Grammars", since November 2012, Philippe de Groote and Sylvain Pogodalla.

8.2.3. Juries

- Guy Perrier was reviewer of the PhD thesis of Jérôme Kirman, *Mise au point d'un formalisme syntaxique de haut niveau pour le traitement automatique des langues*, Dec. 4, 2015, Université de Bordeaux.
- Philippe de Groote was member of the jury of the HDR of Sylvain Salvati, Dec. 10, 2015, Université de Bordeaux.

8.3. Popularization

- Maxime Amblard is member of the editorial board of *interstice* (i), a french revue popularisation for computer sciences (<http://interstices.info>). He is the head of the rubric informatique -ou presque- dans les films and co-author of the series of article on where we could find computer science in real life.
- Maxime Amblard delivered an invited talk "Le langage, logique !" at the "Conférence Curieuse" of Univ. Lorraine, at the Nancy musée aquarium (September 17th 2015).
- Maxime Amblard delivered an invited talk "Le langage, logique !" at the Luxembourg University (October 15th 2015).
- Bruno Guillaume presentend the game ZombiLingo during the conference Science&You in Nancy (June).
- Nicolas Lefebvre demonstrated the prototype ZombiLingo and Jiří Maršík the ACGtk during the "Forum Sciences Cognitive" in Nancy (November).

Chroma Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- C. Laugier was General Chair (with Ph. Bidaud as co-Chair) of the IEEE ARSO conference "The 2015 IEEE International Workshop on Advanced Robotics and its Social Impacts".
- C. Laugier is a member of the Advisory / Steering Committee of IEEE/RSJ IROS conference.
- C. Laugier was co-organizer of the workshop "7th Workshop on Planning, Perception and Navigation for Intelligent Vehicles", IROS 2015, Hamburg, September 2015 (160 attendees).
- O. Simonin was co-organizer of the Workshop DEMUR "On-line decision-making in multi-robot coordination", IROS 2015, Hamburg, October 2015.
- O. Simonin was co-Chair of CAR 2015 "The 10th National Conference Control Architectures of Robots", Lyon, July 2015.

10.1.1.2. Member of the organizing committees

- C. Laugier is a member of the Advisory / Steering Committee of IEEE/RSJ IROS conference.
- C. Laugier is a member of the Editorial Board of the JSME Robomech Journal.
- O. Simonin was Local arrangement chair of the IEEE ARSO conference.
- O. Simonin was Chair (with J. Ponge) of the organization committee of CAR 2015.
- O. Simonin and J. Saraydaryan were members of the organization committee of the Colloque Jacques Cartier "Robotique, Services et Santé", 31.10-1.11, 2015.

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- C. Laugier was Associate Editor for the IEEE/RSJ IROS 2015 and 2016 conferences.
- C. Laugier was Associate Editor for the IEEE ICRA 2015 and 2016 conferences.
- Jilles S. Dibangoye was Program Committee member of the following conferences:
 - International Joint Conference on Artificial Intelligence (IJCAI)
 - AAAI Conference on Artificial Intelligence (AAAI)
 - Autonomous Agent and Multi-agent Systems International Conference (AAMAS)
- O. Simonin was Program Committee member for IFAC/ACM ICINCO (International Conference on Informatics in Control, Automation and Robotics)
- O. Simonin is Program Committee member of the JFSMA conference since 2008 (Journées Francophones sur les Systèmes Multi-Agents).

10.1.2.2. Reviewer

- A. Martinelli served, in quality of reviewer, at the following international conferences: ICRA 2015, IROS 2015, ICUAS 2015, ACC 2015
- O. Simonin served, in quality of reviewer, at the following international conferences : IROS 2015, ICRA 2015.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- C. Laugier is a member of the Editorial Board of the JSME Robomech Journal.
- C. Laugier is a member of the Editorial Board of the new IEEE Journal "Transaction of Intelligent Vehicles". He is member of the Steering Committee of the Journal and Senior Editor.
- O. Simonin was member of the editorial board of Robotics and Autonomous Systems Journal, for the Volume 75 Part A "Assistance and Service Robotics in a Human Environment", Jan. 2016.

10.1.3.2. Reviewer - Reviewing activities

- A. Martinelli served, in quality of reviewer, for the following journals: Foundation and Trend in Robotics, Transaction on Automation Science and Engineering
- Jilles S. Dibangoye served as a reviewer for the following journals: Journal on Artificial Intelligence Research (JAIR), Artificial Intelligence Journal (AIJ), IEEE Transactions on Robotics (TRO).
- O. Simonin serves, in quality of reviewer, for the RIA revue (Revue d'Intelligence Artificielle).

10.1.4. Invited talks

- C. Laugier was invited to give a talk at IET Workshop on "Autonomous Vehicles: from the theory to full scale applications", Novotel Paris Les Halles, Paris, June 18th 2015.
Talk title: Risk Assessment and Decision-making for Safe Vehicle Navigation under Uncertainty.
- C. Laugier was invited to give a talk at RII "Smart Cities & Mobility Innovations", San Francisco, May 11th 2015.
Talk title: Bayesian Perception and Decision for Intelligent Mobility.
- C. Laugier was invited to give a talk at Google Self-Driving Cars, Mountain View, May 12th 2015.
Talk title: Bayesian Perception and Decision for next Cars Generation.
- C. Laugier was invited to give a Keynote talk at PPNIV-7 workshop, IEEE/RSJ IROS 2015, Hamburg, September 28th 2015.
Talk title: Embedded Bayesian Perception and Risk Assessment for ADAS and Autonomous Cars.
- O. Simonin was invited to give a talk at JNRR 2015, Journées Nationales de la Recherche en Robotique, October 21-23, Cap Hornu.
- A. Spalanzani was invited to give a talk at the Colloque Jacques Cartier "Robotique, Services et Santé", 30th-1st of november/december, Lyon.

10.1.5. Leadership within the scientific community

- C. Laugier has been invited as co-author (with Alberto Broggi, Alex Zelinsky and Umit Ozguner) for the Chapter 62 on "Intelligent Vehicles" of the 2nd edition of the Handbook of Robotics (to appear on March 2016).

10.1.6. Scientific expertise

- C. Laugier is Scientific Consultant for the Probayes company.

10.1.7. Research administration

- C. Laugier is a member of several Ministerial and Regional French Committees on Robotics and Autonomous Cars.
- O. Simonin is member of the Rhone-Alpes Robotics cluster (Coboteam), for Inria and INSA de Lyon entities.
- A. Martinelli carried out the activity of leader for the ANR project VIMAD
- A. Martinelli carried out the activity of leader for the CARNOT project SEDIA

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

M2R Informatique option RTS : O. Simonin, Robotique distribuée, 8h, M2, Université de Lyon, France.

INSA Lyon 5th year : O. Simonin, Robots mobiles communicants, 60h, M2, INSA de Lyon, France.

INSA Lyon 3rd year : O. Simonin, Algorithmique et programmation, 20h, L3, Dept. Telecom INSA de Lyon, France.

M2R MoSIG: A. Martinelli, Autonomous Robotics, 12h, ENSIMAG Grenoble

E-learning

Mooc "Mobile Robots and Autonomous Vehicles" (eMotion / Chroma): C. Laugier, A. Martinelli and D. Vasquez, 5 weeks on Inria-uTOP site, Videos in English including quiz, International diffusion on Inria-uTOP site, course for Engineers, Master and PhD students.

10.2.2. Supervision

PhD in progress: Tiana Rakotovao Andriamahefa, Embedded Bayesian Perception on a Multi-core Architecture, 2013, C. Laugier and D. Ruspini (CEA LETI).

PhD in progress: David Sierra Gonzalez, Autonomous Driving, 2014, E. Mazer (Inria Prima), J. Dibangoye, C. Laugier (cooperation Toyota).

PhD in progress: Mathieu Barbier, Decision making for Intelligent Vehicles, 2015, O. E. Mazer (Inria Prima), O. Simonin, C. Laugier (cooperation Renault)

PhD in progress: Vishnu K. Narayanan, semi-autonomous navigation of a electric wheelchair using visual servoing and user intention analysis, 2013, M. Babel (Lagadic Team) and A. Spalanzani.

PhD in progress: Stefan Chitic, Middleware for multi-robot systems, 2013, O. Simonin, J. Ponge (CITI-Dynamid), Ministry funding.

Starting PhD: Mihai Popescu, Robot fleet mobility under communication constraints, O. Simonin, A. Spalanzani, Regional funding.

10.2.3. Juries

- O. Simonin was a member of the defense committee of the HDR of Cedric Pradalier, INP Toulouse, June 5th, 2015.
- O. Simonin was a reviewer and a member of the defense committee of the HDR of Anne Spalanzani, Université Pierre-Mendès-France, June 22th, 2015.
- C. Laugier was a member of the defense committee of the HDR of Anne Spalanzani, Université Pierre-Mendès-France, June 22th, 2015.
- O. Simonin was a reviewer and a member of the defense committee of the PhD thesis of Bassem Hichri, Université Blaise Pascal, October, 2015.
- O. Simonin was a reviewer and a member of the defense committee of the PhD thesis of Zoubida Afoutni, Université de la Réunion, Montpellier September 25th, 2015.
- O. Simonin was a reviewer and a member of the defense committee of the PhD thesis of Cyril Robin, Université de Toulouse, June 4th, 2015.
- O. Simonin was a member of the selection committee (COS) for an Associate Professor position at Université de Grenoble, IUT de Valence.
- A. Spalanzani was a reviewer and a member of the defense committee of the PhD thesis of Mihai Andries, Université de Lorraine, December 15th, 2015.
- C. Laugier was a reviewer and a member of the defense committee of the PhD thesis of Thibaut Kruse, Technical University of Munich, January 14th, 2015.
- C. Laugier was President of the Jury of the French PhD Theses Award 2015 of the GDR Robotique (Theses defended in 2014), Presented at the JNRR 2015, 21-23 October 2015, Cap Hornu.

DEFROST Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events selection

9.1.1.1. Member of the conference program committees

- Christian Duriez is member of the WorldHaptics 2015 Conference Editorial Board and Vriphys 2015
- Jérémie Dequidt has been member of the program committee of AFIG 2016

9.1.1.2. Reviewer

- Christian Duriez has been reviewer for SIGGRAPH 2015, Vriphys 2015, ISBI 2015.
- Jeremie Dequidt has been reviewer for MICCAI 2015, Haptics Symposium 2016
- Damien Marchal was reviewer for IEEE 3D User Interface 2016 (3DUI 2016), VriPhys 2015, "la Conférence francophone sur l'Interaction Homme-Machine" (IHM 2015), World Haptics Conference (WHC 2015)
- Alexandre Kruszewski was reviewer for American Control Conference 2016, European Control Conference 2016, World Haptics Conference 2015, International Conference on Fuzzy Systems 2015.

9.1.2. Journal

9.1.2.1. Reviewer - Reviewing activities

- Christian Duriez has received an award from the journal IEEE transactions on haptics for outstanding review activities
- Christian Duriez has been reviewer for the following journals: Computer Graphics Forum, IEEE Transaction on Automation Science and Engineering, Mechanism and Machine Theory, IEEE Transactions on Haptics, IEEE Transactions on Visualization and computer Graphics
- Jeremie Dequidt was reviewer for the following journals: IEEE Transactions on Haptics, Computers and Graphics, Computer Graphics and Applications, Annals of Biomedical Engineering, REFIG
- Alexandre Kruszewski was reviewer for International Journal of Systems Science, Fuzzy sets and systems (2 papers), IEEE Transaction on Fuzzy systems (4 papers), Control Engineering Practice.

9.1.3. Invited talks

- Christian Duriez has been invited for a talk on the summer school on surgical robotics (Montpellier) and for the Autumn school on soft robotics and surgery (Torino).

9.1.4. Scientific expertise

- Christian Duriez is one of the founder and scientific advisor of the startup InSimo (www.insimo.com)

9.1.5. Research administration

- Christian Duriez was reviewer for the founding program AIRR (Nord-Pas de Calais) and Ecos-Sud (France-South America)

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

Master : Christian Duriez, Simulation interactive basé sur la physique, niveau M2, université de Lille, France

Master : Jérémie Dequidt is in charge of the "Fillière Systèmes Communicants (IMA)" at Polytech Lille, France

Master : Jérémie is in charge of the transversal modules, which are common to all students M2 at Polytech Lille, France

Licence : Alexandre Kruszewski is in charge of Teaching Automation in the "Cursus Iteem" (L1 to M2) at Centrale Lille, France

Master : Alexandre Kruszewski, Advanced Automatic, Centrale Lille, France

Master : Damien Marchal, "Introduction to Unity 3D" Master 2 IVI de l'UFR d'IEEA, université de Lille, France

Master : Damien Marchal, "Introduction to Unity 3D" professional training SUDES, université de Lille, France

9.2.2. Supervision

- PhD: Julien Bosman, Physically-based 6DOF Nodes deformable models: Application to connective tissues simulation and soft-robots control, Université de Lille, 27 Novembre 2015, encadrée par C.Duriez
- PhD: Raymundo Márquez, «New control and observation schemes based on Takagi-Sugeno models», Université de Valenciennes, 12 Novembre 2015, encadrée par A. Kruszewski
- PhD in progress: Frederick Largillière, Control and Modelling of Interfaces based on Soft-robots, Université de Lille, advisors: C. Duriez and L.Grisoni (3d year)
- PhD in progress: Thor Morales, Feedback Control and Design of Soft-robots manipulators, Université de Lille, advisors: C. Duriez and R.Merzouki (3d year)
- PhD in progress: Zhongkai Zhang, Real-time control of deformable robot using visual servoing. Encadrement: J. Dequidt et C.Duriez (1st year)

9.2.3. Juries

- Christian Duriez was reviewer for the HdR of Pierre Joli (Université d'Evry)
- Christian Duriez was member of the committee for the position "Chargés de Recherche" (Inria Lille)

9.3. Popularization

- Presentation of a deformable robot in the Senate on 02/11/2015 at the "journée du numérique".
- A popular article on the work of the team was simultaneously broadcast on the BIT Blog Site lemonde.fr and the Interstices website.
- We worked with the Fresnoy (National Studio of Contemporary Arts) on the work of art: Exo-Biota artist Jonathan Pepe. This work was presented at the Panorama exhibition. It will be exhibited at the Palais de Tokyo in 2017. This project was the subject of an article on the humanoide.fr site.
- At the Science Festival, our team has greatly contributed to the itinerant scholars operation. Scientists and engineers have moved in colleges and high school in the region to present their work. This year, 15 one hour lessons were conducted in front of 430 students in secondary schools (<http://www.inria.fr/centre/lille/agenda/chercheurs-itinerants-2015>).
- Participation in various operations Chti'Code. Chti'Code is an action of the University of Lille 1, which aims to promoting computer education in primary schools. Damien Marchal intervened with 4 CM2 classes for a total of 20h. <https://wikis.univ-lille1.fr/chticode/>.
- In march 2015 Presentation of the work of Defrost students ISN Terminal specialty by Eulalie Coevoet and Jeremie Dequidt.

- J.Dequidt made an invited presentation and was a member of the jury of robotics competition organized by the High School Baggio (SI @ Baggio): <https://www.inria.fr/centre/lille/actualites/un-defi-de-robotique-interscolaire-a-lille>.
- J.Dequidt participated in the organization of the Robotics Cup of Primary Schools Polytech Lille. <http://crep.plil.net/>.
- J.Dequidt was a member of the European competition Android application creation students, supported by Google. <https://competition.eestec.net/>.
- A reporter did a paper about our team, posted on the site rue89 (over 11,000 visits to the article): <http://rue89.nouvelobs.com/2015/10/27/les-robots-mous-solution-medecine-moins-douloureuse-261847>
- Defrost research works have been presented to students (Terminale ISN) by E. Coevoet and J. Dequidt in march 2015.

FLOWERS Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair

D Roy organized and was general chair of Colloque Robotique et Education (june 2015) : Research, users reports, talks and workshops about robotics for education. Program : http://dm1r.fr/wp-content/uploads/2015/05/colloque_robotique_education_2324062015.pdf. Videos: <https://www.youtube.com/playlist?list=PL9T8000j7sJDcOoHA8r18561F3jDXZASN>.

10.1.1.2. Member of the organizing committees

- PY Oudeyer was member of the steering committee of the fOSSa international conference on Free Open Source Software, Nantes: <https://fossa.inria.fr>.
- PY Oudeyer was workshop chair of the IJCNN 2015 International Joint Conference on Neural Networks, Killarney, Ireland: <http://www.ijcnn.org>
- PY Oudeyer has been member of the steering committee of the IEEE ICDL-Epirob International Conference on Development and Learning and Epigenetics Robotics.

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- David Filliat was Associate Editor for IROS, and member of the conference committee for ECMR.
- Manuel Lopes was member of the conference committee for HRI, AAMAS.
- PY Oudeyer was member of the program committee of IEEE ICDL-Epirob

10.1.2.2. Reviewer

- Manuel Lopes was reviewer for IJCAI, IROS, ICRA.
- David Filliat was reviewer for ESANN, RFIA, ECMR.
- Pierre Rouanet was reviewer for IROS.
- Thibaut Munzer was reviewer for IROS.
- PY Oudeyer was reviewer for IEEE ICDL-Epirob, IROS, ICRA.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- PY Oudeyer has been Editor-in-Chief of the IEEE CIS Newsletter on Cognitive and Developmental Systems, <http://icdl-epirob.org/cdsnl>
- PY Oudeyer and Clément Moulin-Frier guest edited a special issue of the Journal of Phonetics, on the cognitive nature of speech sounds.
- PY Oudeyer has been associate editor of IEEE Transactions on Autonomous Mental Development, Frontiers in Humanoid Robotics, Frontiers in Neurorobotics, IEEE RAS Letters.
- Manuel Lopes is an associated editor for the, IEEE Transactions on Autonomous Mental Development

10.1.3.2. Reviewer - Reviewing activities

- Pierre Rouanet has reviewed papers for the IEEE Robotics and Automation Letters (RA-L).

- Anna-Lisa Vollmer was reviewer for *Frontiers in Robotics and AI* and *Transactions on Autonomous Mental Development*
- David Filliat was reviewer for *International Journal of Robotics Research*, *IEEE Transaction on Robotics*
- PY Oudeyer was reviewer for *Infancy*, *Journal of Infant Behavioral Development*, *Journal of Phonetics*, *IEEE TAMM*.

10.1.4. Invited talks

- PY Oudeyer gave a keynote talk at the Evostar 2015 international conference on bio-inspired computation: <http://www.evostar.org/2015/>, entitled “Open-source baby robots for science, education and art, april 2015.
- PY Oudeyer gave a keynote talk at the Devoxx 2015 international conference, entitled “Building open-source robots capable of autonomous learning” <http://www.devoux.fr>, april 2015.
- PY Oudeyer gave a keynote talk at the BICA 2015 international conference on Biologically Inspired Cognitive Architecture, entitled “Developmental robotics and open-ended learning”, <https://liris.cnrs.fr/bica2015/wiki/doku.php/start>, nov. 2015.
- PY Oudeyer gave a Spotligh talk at the OEB 2015 international conference on technology supported learning and training
- PY Oudeyer gave a talk at “Journée Brain”, Univ. Bordeaux, entitled “Open-source baby robots: modelling sensorimotor development with robots”, may 2015.
- PY Oudeyer gave a talk at Colloque GEII entitled “Poppy: Open-sour ce educational robot platform”, june 2015
- PY Oudeyer, “Modélisation robotique du développement cognitif, sensorimoteur et social”, CogTalk, Zig Zag bar/Association of cognitive science students of Univ. Bordeaux, feb. 2015.
- PY Oudeyer, “Robotique développementale et sociale”, Workshop Interactions Homme-Robots dans le contexte d’applications culturelles, La Rochelle, sept. 2015.
- PY Oudeyer, “Online optimization and personalization of teaching sequences: from developmental robotics to e-learning”, International Teacher’s Cognition workshop, Ecole Normale Supérieure, Paris
- PY Oudeyer, “Auto-organisation et curiosité dans le développement et l’évolution du langage”, Séminaire du laboratoire du LATTICE, Ecole Normale Supérieure de Paris.
- PY Oudeyer, “Histoire et enjeux éducatifs de l’intelligence artificielle et de la robotique”, dialog with JG Ganascia and M Doueïhi at the Artificial Intelligence and Society seminar at College des Bernardins, Paris, oct. 2015.
- F. Stulp, Robot Skill Learning: Back to the Future, 22.10.2015, Josef Stefan Institute, Ljubljana, Slovenia.
- F. Stulp, Many regression algorithms, one unified model - A tutorial”, 23.10.2015, Josef Stefan Institute, Ljubljana, Slovenia
- A.-L. Vollmer, Teaching, a bidirectional process: Evidence from adult-child and human-robot interaction, 09.09.2015, Tenth International School on Mind, Brain and Education, Ettore Majorana Foundation, Erice, Italy.
- M. Lopes, Interactive Learning for Cooperative Human-Robot Tasks, Algorithms for Human Robot Interaction Workshop, University of Berkeley, USA
- M. Lopes, Exploration Biases for Task Learning In Machines and Animals, Redwood Center for Theoretical Neuroscience, USA
- W. Schueller, Active Learning and Active Control of Complexity Growth in Naming Games, Complexity & Quantitative Linguistics Lab, Universitat Politècnica de Catalunya, Barcelona, Spain

- Boussoles du numérique (october 2015), Didier Roy, Stéphanie Noirpoudre, Thibault Desprez
- Assises nationales de la médiation numérique (novembre 2014), Didier Roy, Pierre-Yves Oudeyer
- Escales de l'éducation (ligue de l'enseignement) (september 2015), Didier Roy
- Symposium Scratch Amsterdam (août 2015) : presentation of Snap! programming
- Cap Sciences (several events during the year), Didier Roy
- Forum EIDOS 64 Pau : talks about educational robotics, Didier Roy

10.1.5. Leadership within the scientific community

PY Oudeyer has been Chair of IEEE CIS Autonomous Mental Development Technical Committee, and led its transformation into the IEEE CIS Cognitive and Developmental Systems Technical Committee.

Through his role of editor-in-chief of the IEEE CIS Newsletter on Cognitive and Developmental Systems, PY Oudeyer contributed to strengthen the interdisciplinary exchanges among developmental sciences, and in particular organized two interdisciplinary dialogs on key scientific issues: <http://icdl-epirob.org/cdsnl>.

10.1.6. Scientific expertise

- PY Oudeyer was expert for the EU Commission scientific programme.
- PY Oudeyer was expert for the OPECST office at Assemblée Nationale, about the role and evolution of robotics within society.
- PY Oudeyer was an expert for the Cherry Project, IPB, Bordeaux.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Freek Stulp is responsible for the coordination of the 5 first year computer science courses at ENSTA-ParisTech (140 students per year). He organized, gave lectures and was a tutor in the courses "IN101: Algorithmics and Programming (in Python)" and "IN104: Computer Science Project" (140 students each). He was a tutor in the course "IN102: Algorithms and Systems (in C)". With Michele Sebag he organized the course "Reinforcement Learning" (20 students) as part of the M2 "Machine Learning, Information and Content" at the Université Paris Saclay.

License: Introduction to Matlab, 21 heures. L3, ENSTA - ParisTech (David Filliat).

Master: Apprentissage, 5 heures. M2, Enseirb-Matmecca (Manuel Lopes, Pierre-Yves Oudeyer).

Master: La robotique de compagnie: concepts et techniques, 9 heures. M2, ENSTA - ParisTech (Manuel Lopes).

Master: Robotique Mobile, 21 heures. M2, ENSTA - ParisTech (David Filliat).

Master: Perception pour la robotique, 12 heures. M2 Systemes Avances et Robotique, University Pierre et Marie Curie (David Filliat)

Licence 2: Graphe, Langage, Cryptologie, 21 heures. Pôle universitaire français de Ho Chi Minh Ville

Pedagogical resources : Développement and diffusion of IniRobot pedagogical kit (see highlights), Didier Roy, Thomas Guitard et Pierre-Yves Oudeyer

Licence, Master: Seminar Developmental Robotics, 21 heures, Bielefeld University, Germany (Anna-Lisa Vollmer)

Master: Robotique Développementale, 3 hours, CogMaster, http://sapience.dec.ens.fr/cogmaster/www/e_01_portail.php (PY Oudeyer)

Pedagogical resources : Développement and diffusion of IniRobot pedagogical kit (see highlights), Didier Roy, Thomas Guitard et Pierre-Yves Oudeyer

Design of the conceptual framework and educational objectives of the Poppy Education courses to be finalized in 2016 (PY Oudeyer and D Roy)

Master: Robotique et Desig, 2 hours Master Design, Univ. Bordeaux.

Teaching at EPFL (3 interventions per year, 2 days each), Didier Roy

Teachers training for ESPE Aquitaine (1 day), teachers training of partner schools for Poppy Education, Didier Roy

Training facilitators TAP Pessac (3h), Talence (3h), CapSciences (3h), Petits débrouillards (3h), Didier Roy

Teacher trainings and education consultants DSDEN : 2015, 24 participants, Didier Roy

10.2.2. Supervision

HdR : Manuel Lopes, Autonomous Learning in Intelligent Agents and Robots, University of Bordeaux, September 2015

PhD in progress: Thomas Hecht, Bio-inspired sensor fusion, started November 2013 (superv. Alexander Gepperth).

PhD in progress: Egor Sattarov, Multimodal vehicle perception architecture, started November 2013 (co-superv. Alexander Gepperth).

PhD in progress: Thomas Kopinski, Machine Learning for human-machine interaction, started November 2012 (superv. Alexander Gepperth).

PhD in progress: Alexandre Armand, Contextual electronic copilot for driving assistance, started feb. 2011 (superv. David Filliat)

PhD in progress: Yuxin Chen, Interactive learning of objects and names on a humanoid robot, started oct. 2013 (superv. David Filliat).

PhD in progress: Celine Craye, Curiosity and visual attention for the guidance of an exploration robot, started apr. 2014 (superv. David Filliat).

PhD in progress: Adrien Matricon : Task dependent visual feature selection for optimising and generalizing robotics skills (superv. David Filliat, Pierre-Yves Oudeyer, and Freek Stulp).

PhD in progress: Clement Masson, Unsupervised learning of sensori-motor representations, started Oct. 2015 (superv. David Filliat, Olivier Sigaud and Freek Stulp).

PhD in progress: José Magno Mendes Filho, Planning and control of an autonomous AGV in environment shared with humans, started Oct. 2015 (superv. David Filliat and Eric Lucet (CEA))

PhD in progress: Joris Guery, Domain adaptation for visual object recognition, started Oct. 2014 (superv. David Filliat and Bertrand Le Saulx (ONERA))

PhD in progress: Benjamin Clement, Intelligent Tutoring Systems, started oct 2015 (superv. Manuel Lopes and Pierre-Yves Oudeyer).

PhD in progress: Thibaut Munzer, Learning from Instruction, started oct 2013 (superv. Manuel Lopes).

PhD in progress: Baptiste Busch, Interactive Learning, started oct 2014 (superv. Manuel Lopes).

PhD in progress: Alexandra Delmas, Auto-Apprentissage Auto-Adaptable pour la compliance au traitement, started oct 2014 (superv. Manuel Lopes).

PhD in progress: Fabien Benureau, Exploration strategies in developmental robotics (superv. PY Oudeyer)

10.2.3. Juries

Ben-Manson Toussaint, Modeling Perceptual-Gestural Knowledge for Intelligent Tutoring Systems, supervised by Vanda Luengo, University of Grenoble, France

Emanuel Sousa, Emergence de Concepts Multimodaux, supervised by Estela Bicho, and Wolfram Erlhagen, University of Minho, Portugal

Antoine Cully (21/12/15, David Filliat, Rapporteur) : Creative Adaptation through Learning

Elena Stumm (23/11/2015, David Filliat, Rapporteur) : Location Models For Visual Place Recognition

Alexandre Ravet (13/10/15, David Filliat, Examineur) : Introducing Contextual Awareness within the State Estimation Process

Cédric Le Barz (30/06/15, David Filliat, Rapporteur) : Navigation visuelle pour la navigation autonome des petits drones

Romain Drouilly (29/06/15, David Filliat, Rapporteur) : Cartographie hybride métrique topologique et sémantique pour la navigation dans de grands environnements

Erwan Birem (12/03/2015, David Filliat, Rapporteur) : Localisation et détection de fermeture de boucle basées sur la saillance visuelle : algorithmes et architectures matérielles

Alain Droniou (09/03/2015, David Filliat, Examineur) : Apprentissage de représentations et robotique développementale : quelques apports de l'apprentissage profond pour la robotique autonome.

PY Oudeyer was in the PhD jury of Alain Droniou (Univ. Paris VI, France, reviewer), Adam White (Univ. Alberta, Canada, reviewer), Vieri Santucci (Univ. Plymouth, UK, reviewer), Didier Roy (Univ. Bordeaux, examiner), Renaud Gervais (Univ. Bordeaux, examiner).

PY Oudeyer was in the HdR jury of Julien Diard (Univ. Grenoble, reviewer), Jean-Baptiste Mouret (Univ. Paris, reviewer), Manuel Lopes (Univ. Bordeaux).

10.3. Popularization

IniRobot: Development, evaluation and dissemination of the IniRobot program for initiating young kids (primary schools) to computer science and robotics. This has been used and deployed in several major towns in France, including Lille, Talence and Lormont. It is now used by more than **7000** primary school children. Several days of formation for teachers have been organized to foster dissemination. The kit is Creative Commons, and available on the dedicated web site created: <https://dm1r.inria.fr/c/kits-pedagogiques/inirobot>

The Flowers team was a partner of several art/science projects studying various dimensions of the role and evolution of robots and society, and in particular

- The Comacina project exploring the role of movements and light in expressing emotions: <http://comacina.org>. This project was implemented through several residencies during the year, and several performances at various cultural places in Aquitaine, including at Pole Evasion in Ambares-et-Lagrave. a report is available at <https://flowers.inria.fr/RencontreAutourDuGeste.pdf>. It benefitted from funding from the Art/Science Idex call for project.
- The Marionnettes Electriques project studies animation techniques allowing to express fast and rich interaction in real-time on the stage. Various realizations can be seen from <https://www.poppy-project.org/project/marionnettes-electriques/>.
- The School of Moon project, from the Shonen dance company (headed by Eric Minh Cuong Castaing), is working on the design of a dance show about robots and posthumanity. It is using multiple robots, including the Poppy Humanoid robot in dynamic physical interaction with dancers. The premiere will happen in January 2016 at Ballet de Marseille. Web site: <http://shonen.info/schoolofmoon/>.

PY Oudeyer published a milestone popular science book together with astrophysicists Jean Audouze, biologist Georges Chapouthier, architect Denis Laming, on the common threads related to the origins of complexity at different scales in the universe. The title is “Mondes Mosaïques, Astres, Villes, Vivant et Robots”.

PY Oudeyer wrote a popular science article about developmental robotics in "Pour la Science" (the french version of Scientific American), entitled: "L'éveil des bébés robots", available here: <http://www.pyoudeyer.com/eveilRobotsPourLaScienceOudeyer15.pdf>

PY Oudeyer gave several interviews in the general press and at radio and TV programs (e.g. Le Monde, Les Echos, Sciences et Avenir, RFI, Nova/PBS, Arte) to explain societal issues of robotics, <http://www.pyoudeyer.com/press/>

January 29, 2015: Pierre Rouanet, Matthieu Lapeyre and Nicolas Rabault presented the Poppy Project in the TTFX conference in Bordeaux.

Robots Makers'day (january) : First Lego League, Poppy and Thymio workshops

January 31, 2015: Aquitec 2015, Yoan Mollard presented the Poppy platform to students and visitors

February 11, 2015: Benjamin Clément, Manuel Lopes, Pierre Rouanet, and Pierre-Yves Oudeyer were invited to present the Kidlearn and Poppy projects to the French senate in Paris.

May 28 to 29, 2015: William Schueller, Baptiste Busch and Yoan Mollard participated to the jury of students option "Informatique et Sciences du numérique", Lycée Saint Genes, Bordeaux

June 03 to 06, 2015: Didier Roy, Sébastien Forestier and William Schueller participated to the event "Science and You" in Nancy, by presenting Poppy and Inirobot projects.

June 13, 2015: Thibault Desprez, Antoine Darfeuil, Amandine Spriet, Theo Segonds and Pierre Rouanet participated to the Robot Makers Day where they organized a half day workshop on how to program Poppy Torso in Bordeaux.

August 08, 2015 : David Filliat gave a Talk at "Festival de Fleurance", a science festival in Fleurance (south of France) : Les robots, bientôt nos egaux ?

August 11-14, 2015: Theo Segonds and Pierre Rouanet were invited to present their work on the connection between Snap and Poppy robots to the 2015 Scratch conference in Amsterdam.

August 25, 2015 : David Filliat gave a Talk at "Rencontre enseignant-entreprises" at Ecole Polytechnique : Remplacer les hommes par les robots : jusqu'ou ira-t-on ?

September 28 to October 2, 2015: Baptiste Busch, Yoan Mollard, and other participants of the 3rd hand consortium presented the project on a booth among other EU projects at the IROS conference, Hamburg, Germany

October 13, 2015: Rencontre Inria Industrie: Baptiste Busch, Benjamin Clément and Alexandra Delmas presented respectively the projects 3rdHand, KidLearn and 5APC on a booth, Bordeaux

October, 16, 2015: Pierre Rouanet and Yoan Mollard presented the Poppy robots to the Bdx I/O Conference in Bordeaux.

October 20 to 22, 2015: Baptiste Busch, Pierre Rouanet, Yoan Mollard and Manuel Lopes showcased 3rd hand and Poppy robots to the ICT Forum in Lisbon, Portugal

November 16, 2015: Yoan Mollard gave a talk to the ESAC Alumni meeting 2015 about the 3rd hand project, European Space Agency, Madrid, Spain

October, 5, 2015: Nicolas Rabault presented the Poppy platform at the developer day from orange lab, Bordeaux.

March, 30 to 31, 2015: Nicolas Rabault presented "what is robotics" to primary school children for the "Festival jeune public du documentaire scientifique"

May, 29 to 30, 2015 : Matthieu Lapeyre and Nicolas Rabault : participated to the "open bidouille camp", Aix en Provence

HEPHAISTOS Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- J-P. Merlet is a member of the scientific committee of the European Conference on Mechanism Science (EUCOMES), chairman of the scientific Committee of the Computational Kinematics workshop, a member of the steering Committee of IROS
- Y. Papegay is a permanent member of the International Steering Committee of the International Mathematica Symposium conferences series, and member of the Program Committee of the edition 2015 held in Prague in January.

10.1.2. Scientific events selection

10.1.2.1. Reviewer

- J-P. Merlet has been reviewing Editor for IROS 2015.
- The members of the team reviewed numerous papers for numerous international conferences.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- J-P. Merlet is board member of the Journal of Behavioral Robotics

10.1.3.2. Reviewer - Reviewing activities

- The members of the team reviewed numerous papers for numerous international journals .

10.1.4. Invited talks

- J-P. Merlet has given a talk on assistance robotics at the MESROB, a talk on cable-driven parallel robots in the workshop *robotics and biology*. He was invited to give a talk at Berkeley for the workshop *Algorithmic Human-Computer Interaction*.

10.1.5. Leadership within the scientific community

- J-P. Merlet is Inria representative to PPP Eurobotics aisbl. He is a member of the IFToMM (International Federation for the Promotion of Mechanism and Machine Science) Technical Committees on History and on Computational Kinematics and has been re-elected as one of the 10 members of IFToMM Executive Council, the board of this federation. He has candidated as President of the Federation. He is a member of the scientific committee of the CNRS GDR robotique and of the CAC of UCA COMUE.
- O. Pourtallier is a board member of SeaTech, an Engineering School of University of Toulon.

10.1.6. Scientific expertise

- J-P. Merlet was an HCERES expert for Institut Pascal. He has initiated, together with Nathalie Nevejans from University of Douai, a meeting with the OPECST at the French. He was involved in project evaluations for several foreign funding agencies (Israel, Austria, Finland). He was also appointed as *Nominator* for the Japan's Prize and interviewed for challenge prizes for the European Commission's Horizon 2020 framework. National Assembly to discuss legal and ethical aspects of robotics. He was a member of the jury of the PhD Award of GDR robotique

- B. Senach participated to the Innovative City Convention (June 2015, Nice) and the 1st EIT Health Summer school (Dublin and Barcelona, July 2015)

10.1.7. Research administration

- J-P. Merlet is an elected member of Inria Scientific Council.
- Y. Papegay is a member of the Inria CUMIR and of the ADT committee
- O. Pourtallier is a member of the Inria CSD (doctoral students monitoring), and is responsible of the Inria NICE committee (long term invited scientists and post-doctoral student selection).
- B. Senach participated in the Inria communication action "Graine d'entrepreneur"

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Master: J-P. Merlet lectured 8 hours on robotics and connected objects to Master NeuroMoteur (M2) at University Paris Est

Master : O. Pourtallier lectured 6 hours on game theory to Master OSE (M2), at École des Mines de Paris, Sophia Antipolis, France.

10.2.2. Supervision

PhD: A. Berti, Forward kinematics of cable driven parallel robots, supervisors: M. Carricato, J-P. Merlet [21]

PhD: L. Blanchet, Contribution to modeling of cable-driven parallel robots for command and design, University Nice Sophia Antipolis, supervisor: J-P. Merlet

PhD in Progress : A. Masseur, Design of Smart Environment for Human Behaviour Recognition, 2013-2016, supervisors: D.Daney, Y.Papegay

PhD in Progress : K. Bakal, Biomechanics of the upper limb, 2013-2016, supervisors: D. Daney, J-P. Merlet, P. Gorce

PhD in Progress :M. Beninati, Legal aspect of assistance robotics, 2015-2018, supervisor: J-P. Merlet

10.2.3. Juries

J-P. Merlet has been the member of the jury of 4 PhD defense and of one HdR

10.3. Popularization

- M. Gautier has introduced robotics in a lycée in Aix
- J-P. Merlet has presented robotics assistance during an associations meeting organized by the Conseil Général. He has introduced modern robotics to 100 students of preparatory school in Cannes.
- Y.Papegay is actively participating to the Math.en.Jeans initiative for Mathematics teaching for undergraduate students. He organized and animated a summer school in experimental mathematics and computer sciences. Two one week sessions have been held in Oxford in June gathering 30 high-school students - most of them were awardees in Mathematics Olympiad
- O. Pourtallier has presented our activity to Laurence ROSSIGNOL, Secrétaire d'Etat chargée de la famille, de l'enfance, des personnes âgées et de l'autonomie
- the team has exhibited its experimental flat to about 100 visitors
- the team has organized a 5 days workshop *Computer science for artists*. Fours artists have been submitted to a crash course on the use of sensors and actuation and have proposed a musical/dancing show the last day, based on the use of numerous motors and sensors

LAGADIC Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- Patrick Rives was the co-organizer and the scientific chair of the Journées Nationales de la Recherche en Robotique (JNRR'15) held in October at Cap Hornu.

10.1.1.2. Member of the organizing committees

- Paolo Robuffo Giordano co-organized the 7-th International Workshop on Human-Friendly Robotics, Pontedera, Italy

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- François Chaumette: ICRA'2015, RSS'2015, ICRA'2016
- Eric Marchand: Orasis'15, IROS'2015, ICRA'2016
- Patrick Rives: ICRA'2016, RFIA'2016
- Paolo Robuffo Giordano: ICRA'2015, ICRA'2016

10.1.2.2. Reviewer

- Marie Babel: ICRA 2016 (2), IROS 2015 (1)
- François Chaumette: IROS'2015 (3), Humanoids'2015 (1)
- Vincent Drevelle: IROS'2015 (4)
- Alexandre Krupa: IROS'2015 (2), ISBI'2015 (1), ICRA'2016 (4)
- Eric Marchand: Orasis'15 (3), ICRA'2015 (3), IROS'2015 (2), ICRA'2016 (2)
- Patrick Rives: ICCV'2015 (2), ICRA'2015 (3), IROS'2015 (3), IV'2015 (1), MVIGRO'2015 (1)
- Paolo Robuffo Giordano: ICRA'15, IROS'15, IROS'15, MED'15

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- François Chaumette: Editorial Board of the Int. Journal of Robotics Research, Senior Editor of the IEEE Robotics and Automation Letters
- Alexandre Krupa: Associate Editor of the IEEE Robotics and Automation Letters
- Eric Marchand: Associate Editor of the IEEE Robotics and Automation Letter, Guest Editor (with Peter Corke and Jana Kosecka) of a Special Issue of the Int. Journal of Robotics Research on Robot Vision.
- Paolo Robuffo Giordano: Associate Editor of IEEE Trans. on Robotics, Area Chair of RSS 2015

10.1.3.2. Reviewer - Reviewing activities

- Marie Babel: Autonomous Robots (1)
- François Chaumette: IEEE Trans. on Robotics (4), Robotics and Autonomous Systems (1)
- Patrick Rives: IEEE Trans. on Robotics (1), Robotics and Autonomous Systems (1), TSI (2)
- Paolo Robuffo Giordano: IEEE Trans. on Robotics (2)

10.1.4. Invited talks

- Marie Babel and François Pasteau were invited to give a talk during the final workshop of the Interreg 4A France Channel COALAS project at Kent University, UK, in May 2015.
- François Chaumette: Plenary talk at DICTA'2015, Adelaide, Australia [58]; Tutorial at SIDRA'2015 (Ph.D. Summer School on Robot Control), Bertinoro, Italy
- Eric Marchand: Plenary talk at Orasis'2015, Amiens, France.
- Paolo Robuffo Giordano. Invited Talk: Control of Quadrotors in Unstructured Environments. RSS 2015 Symposium: Frontiers of Robotics, April 2015
- Fabien Spindler: Plenary talk and visual servoing atelier at RPRA'2015 summer school (Recent Progress in Robotics Applications), Alicante, Spain

10.1.5. Leadership within the scientific community

- François Chaumette and Patrick Rives are members of the scientific council of the “GdR Robotique” and JNRR.
- François Chaumette has been elected to serve in the Administrative Committee of the IEEE Robotics and Automation Society (RAS). He chaired the 2015 IEEE RAS Chapter of the year Award Committee and served in the 2015 IEEE RAS Fellow Nomination Committee. He also served in the Advisory Board of the Peraspera project. This project funded by the EC is in charge of drafting the roadmap of the EC Strategic Research Cluster on Space Robotics.
- Alexandre Krupa is a member of the GestChir project at the IRT b<>com in Rennes.
- Eric Marchand is in the board of the “Images et réseaux” competitiveness cluster. He is also a member of the scientific council of the “École supérieure d'ingénieurs de Rennes” (ESIR).
- Patrick Rives has represented Inria's robotic community at European Robotics Forum 2015 for the election of the Board of Directors of euRobotics AISBL.

10.1.6. Scientific expertise

- François Chaumette and Patrick Rives served in the jury to select the best French Ph.D. thesis in robotics.
- François Chaumette served as a Panel member for the ERC PE7 consolidator grants. He also served as evaluator of the FP7 Euroc project and reviewed a set of ANR proposals.
- Eric Marchand served in the jury to select the best French Ph.D. thesis in image processing and computer vision.
- Patrick Rives served as a member of the Inria evaluation committee until July 2015. He also served in the local CR2 (Rocquencourt) and national DR2 recruitment juries.
- Paolo Robuffo Giordano served as External Reviewer for the EU FP7 Sherpa Project.

10.1.7. Research administration

- Marie Babel is a member of the “Comité de Centre” of Inria Rennes-Bretagne Atlantique.
- François Chaumette serves as the president of the committee in charge of all the temporary recruitments (“Commission Personnel”) at Inria Rennes-Bretagne Atlantique and Irisa. He is also a member of the Head team of Inria Rennes-Bretagne Atlantique.
- Eric Marchand served as secretary in the board of the “Association Française pour la Reconnaissance et l'Interprétation des Formes (AFRIF)”. He is also in charge of the Irisa Ph.D. students in the committee in charge of all the temporary recruitments (“Commission Personnel”) at Inria Rennes-Bretagne Atlantique and Irisa.
- Alexandre Krupa is a member of the CUMIR (“Commission des Utilisateurs des Moyens Informatiques pour la Recherche”) of Inria Rennes-Bretagne Atlantique.

10.1.8. Patents

- François Pasteau and Marie Babel are the main authors of a patent (No FR 3 021 400) entitled “Méthode de correction d’une trajectoire dans un dispositif d’aide au déplacement de personnes”.
- Lucas Royer, Alexandre Krupa and Maud Marchal (Hybrid group at Inria Rennes-Bretagne Atlantique and Irisa) submitted a patent application (No. FR15/60541) to INPI entitled “Process for tracking a clinical target in medical images”.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Marie Babel:

Master INSA3: “Statistical Signal Processing”, 24 hours, M2, INSA Rennes

Master INSA1: “Architecture”, 30 hours, L3, INSA Rennes

Master INSA2: “Computer science project”, 30 hours, M1, INSA Rennes

Master INSA2: “Image analysis”, 18 hours, M1, INSA Rennes

Master INSA1: “Remedial math courses”, 50 hours, L3, INSA Rennes

François Chaumette:

Master ESIR3: “Visual servoing”, 8 hours, M2, Ecole supérieure d’ingénieurs de Rennes

Vincent Drevelle:

Master CTS: “Instrumentation, localization, GPS“, 6 hours, M2, Université de Rennes 1

Master Info: “Mobile robotics“, 38 hours, M2, Université de Rennes 1

Master GLA: “Terrain information systems“, 16 hours, M2, Université de Rennes 1

Master Info: “Artificial intelligence“, 12 hours, M1, Université de Rennes 1

Alexandre Krupa:

Master SIBM (Signals and Images in Biology and Medicine): “Medical robotics guided from images”, 4.5 hours, M2, Université de Rennes 1, Brest and Angers

Master FIP TIC-Santé: “Ultrasound visual servoing”, 6 hours, M2, Télécom Physique Strasbourg

Master INSA3: “Modeling and engineering for Biology and Health applications”, 12 hours, M2, INSA Rennes

Master ESIR3: “Ultrasound visual servoing”, 9 hours, M2, Esir Rennes

Eric Marchand:

Master Esir2: “Colorimetry”, 24 hours, M1, Esir Rennes

Master Esir2: “Computer vision: geometry”, 24 hours, M1, Esir Rennes

Master Esir3: “Special effects”, 24 hours, M2, Esir Rennes

Master Esir3: “Computer vision: tracking and recognition”, 24 hours, M2, Esir Rennes

Master MRI: “Computer vision”, 24 hours, M2, Université de Rennes 1

Master MIA: “Augmented reality”, 4 hours, M2, Université de Rennes 1

Paolo Robuffo Giordano:

Master in Robotics: “Analysis and Control of Multi-Robot Systems”, 16 hours, M2, Department of Computer and System Sciences, University of Rome “La Sapienza”

10.2.2. Supervision

Ph.D.: Manikandan Bakthavatchalam, “Utilisation des moments photométriques en asservissement visuel”, defended on March 2015, supervised by François Chaumette [8]

Ph.D.: Tawsif Gokhool, “Représentations valides à long terme pour la navigation et l’apprentissage des modèles 3D”, defended on June 2015, supervised by Patrick Rives [10]

Ph.D.: Romain Drouilly, “Représentation hybride métrique, topologique et sémantique d’environnement 3D pour la localisation temps réel”, defended on June 2015, supervised by Patrick Rives [9]

Ph.D.: Riccardo Spica, “Contributions to Active Visual Estimation and Control of Robotic Systems”, defended on December 2015, supervised by Paolo Robuffo Giordano and François Chaumette [11]

Ph.D. in progress: Le Cui, “Nano-manipulation by visual servoing”, started in October 2012, supervised by Eric Marchand

Ph.D. in progress: Lucas Royer, “Visual tool for percutaneous procedures in interventional radiology”, started in September 2013, supervised by Alexandre Krupa, Maud Marchal (Hybrid group at Inria Rennes-Bretagne Atlantique and Irisa) and Guillaume Dardenne (IRT b<>com)

Ph.D. in progress: Pierre Chatelain, “Multi-modal visual servoing for intra-operative imaging”, started in September 2013, supervised by Alexandre Krupa and Nassir Navab (Technische Universität München)

Ph.D. in progress: Vishnu Karakkat Narayanan, “Semi-autonomous navigation of a wheelchair by visual servoing and user intention analysis”, started in September 2013, supervised by Marie Babel and Anne Spalanzani (e-Motion group at Inria Rhône-Alpes)

Ph.D. in progress: Suman Raj Bista, “Visual navigation of a humanoid robot”, started in October 2013, supervised by Paolo Robuffo Giordano and François Chaumette

Ph.D. in progress: Nicolas Cazy, “Model predictive visual servoing of a humanoid robot”, started in October 2013, supervised by Paolo Robuffo Giordano, François Chaumette and Pierre-Brice Wieber (Bipop group at Inria Rhône-Alpes)

Ph.D. in progress: Renato José Martins, “Robust navigation and control of an autonomous vehicle”, started in November 2013, supervised by Patrick Rives and Samuel Siqueira Bueno (CTI)

Ph.D. in progress: Aly Magassouba, “Audio-based control”, started in December 2013, supervised by François Chaumette and Nancy Bertin (Panama group at Inria Rennes-Bretagne Atlantique and Irisa)

Ph.D. in progress: Jason Chevie, “Control of a flexible needle by visual servoing using B-mode ultrasound images”, started in September 2014, supervised by Alexandre Krupa and Marie Babel

Ph.D. in progress: Quentin Bateux, “Visual servoing from global descriptors”, started in October 2014, supervised by Eric Marchand

Ph.D. in progress: Fabrizio Schiano, “Collective control with onboard sensors for multiple quadrotor UAVs”, started in October 2014, supervised by Paolo Robuffo Giordano

Ph.D. in progress: Pedro Patlan-Rosales, “Robotic insertion of a biopsy needle by visual servoing using elastography images”, started in October 2014, supervised by Alexandre Krupa

Ph.D. in progress: Noël Mériaux, “Landing by visual servoing”, started in October 2014, supervised by François Chaumette, Eric Marchand and Patrick Rives

Ph.D. in progress: Lesley-Ann Dufлот, “Soft tissue deformation tracking using optical coherence tomography (OCT) and ultrasound imaging”, started in November 2014, supervised by Alexandre Krupa and Brahim Tamadazte (Minarob group at FEMTO-ST, Besançon)

Ph.D. in progress: Firas Abi Farraj, “Shared Control Architectures for Visual Servoing Tasks”, started in October 2015, supervised by Paolo Robuffo Giordano

Ph.D. in progress: Salma Jiddi, “Analyses géométrique et photométrique pour des applications de réalité mixte”, started in October 2015, supervised by Eric Marchand and Philippe Robert (Technicolor)

Ph.D. in progress: Ide Flore Kenmogne Fokam, “Cooperative localization in multi-robot fleets using interval analysis”, started in October 2015, supervised Vincent Drevelle and Eric Marchand

Ph.D. in progress: Bryan Penin “Model predictive visual servoing for UAVS”, started in October 2015, supervised by Paolo Robuffo Giordano and François Chaumette

Ph.D. in progress: Muhammad Usman, “Robust Vision-Based Navigation for Quadrotor UAVs”, started in October 2015, supervised by Paolo Robuffo Giordano

Ph.D. in progress: Louise Devigne, “Contribution d’une aide technique robotique à l’évaluation de pathologies neurologiques : Application à la navigation d’un fauteuil roulant”, started in November 2015, supervised by Marie Babel and Philippe Gallien (Pôle Saint Hélier)

Master internship: Marwan Osman from Master Erasmus Mundus Vibot, Le Creusot, “Visual servoing using the trifocal tensor”, supervised by François Chaumette

Master 1 internship: Pierre Le Bihan from Insa Rennes, “Camera-laser triangulation”, supervised by François Pasteau and Marie Babel

Bachelor internship: Grégoire Bonin from Université de Rennes 1, “Rigidity-based Formation Control for the case of Distance and Bearing Constraints”, supervised by Paolo Robuffo Giordano

10.2.3. Juries

- François Chaumette: Cédric Pradalier (HdR, reviewer, Laas, Toulouse), Julien Pettré (HdR, president, Irisa, Rennes), Augustin Manecy (Ph.D., reviewer, ISM, Marseille), Victor Rosenzveig (Ph.D., president, Ircyn, Nantes), Nathan Crombez (Ph.D., reviewer, Mis, Amiens), Don Joven Agravante (Ph.D., president, Lirimm, Montpellier)
- Alexandre Krupa: Ederson Antonio Gomes Dorileo (Ph.D., reviewer, Lirimm, Montpellier)
- Eric Marchand: François Chadebecq (Ph.D., reviewer, Institut Pascal, Clermont-Ferrand), Xialu Sun (Ph.D., reviewer, CVLAB EPFL, Lausanne), Datta Ramadasan (Ph.D., reviewer, Institut Pascal, Clermont-Ferrand), Zaynab Habibi (Ph.D., reviewer, MIS, Amiens), Manikandan Bakthavatchalam (Ph.D., president, Inria, Rennes)
- Patrick Rives: Francisco Moreno Dueñas (Ph.D, reviewer, Malaga, Spain), Danilo Alves de Lima (Ph.D, reviewer, Heudiasyc, Compiègne), Emilie Wirbel (Ph.D, president, Mines-Paritech, Paris), Guillaume Duceux (Ph.D, examiner, ENSTA, Paris)

10.3. Popularization

- Due to the visibility of our experimental platforms, the team is often asked to present its research activities to students, researchers or industry. Our panel of demonstrations allows us to highlight recent results concerning the positioning of an ultrasound probe by visual servoing, the construction of a tower by combining 3D model-based visual tracking and visual servoing techniques to pick up cubes that are assembled, vision-based detection and tracking for space navigation in a rendezvous context, the semi-autonomous navigation of a wheelchair, and augmented reality applications.
- Marie Babel, François Chaumette and Fabien Spindler participated to a “Café des Sciences” in Rennes in November 2015: <http://www.espace-sciences.org/conferences/cafes-de-l-espace-des-sciences/les-robots-sont-partout>
- Marie Babel and François Pasteau participated as exhibitors to the robotics exhibition “Innorobo” in Lyon in July 2015: <http://innorobo.com/en/home/> and to the “Autonomic” exhibition dedicated to the handicap and the autonomy in Rennes in October 2015: <http://www.autonomic-expo.com/>
- Fabien Spindler is a member of the editorial board of “Ouest Inria”, the internal journal at Inria Rennes-Bretagne Atlantique.

LARSEN Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific Events Organisation

10.1.1.1. Member of the Organizing Committees

- Amine Boumaza co-organized “Tentatives, tentations, intentions”, the first workshop of the PsyPhINe project (<http://www.msh-lorraine.fr/actualites/single-calendar/tentatives-tentations-intentions/2015/12/>).
- François Charpillat co-organized with Jan Jaigl and Olivier Simonin the IROS 2015 workshop “On-line decision-making in multi-robot coordination” (<http://robotics.fel.cvut.cz/demur15/>).
- Serena Ivaldi organized the ICRA 2015 Workshop on Force & Tactile sensing. She also co-organized the BMVA Workshop on Force, vision & tactile sensing for robotics manipulation (<http://www.ausy-tu-darmstadt.de/Workshops/ICRA2015TactileForce>).

10.1.2. Scientific Events Selection

10.1.2.1. Chair of Conference Program Committees

- Serena Ivaldi was co-chair of the track “Learning and Adaptive Systems III” at the IEEE International Conference on Robotics and Automation (ICRA) 2015.
- Jean-Baptiste Mouret was chair of the “Generative and Developmental Systems” track at international Genetics and Evolutionary Computation Conference (GECCO) 2015.

10.1.2.2. Member of Conference Program Committees

- Amine Boumaza was PC member of GECCO’2015 (Genetic and Evolutionary Computation Conference), ECAL’2015 (European Conference on Artificial Life), CEC’2015 (Congress on Evolutionary computation), EA’2015 (Artificial Evolution).
- François Charpillat was a PC member of MSDM 2015 (International Workshop on Multiagent Sequential Decision Making Under Uncertainty), DEMUR’15 (International Workshop on On-line Decision-Making in Multi-Robot Coordination), ICAART’2015 (International Conference on Agents and Artificial Intelligence), SENSORNETS’2015 (International Conference on Sensor Networks).
- Serena Ivaldi was PC member of RSS 2015 (Robotics: Science and Systems), associate editor of IROS 2015 (IEEE International Conference on Intelligent Robots and Systems), associate editor of ICRA 2015 (IEEE International Conference on Robotics and Automation), associate editor of HRI 2015 (ACM International Conference on Human-Robot Interaction), associate editor of HUMANOIDS 2015 (IEEE/RAS International Conference on Humanoid Robots). She was also a PC member in several workshops at international conferences (ICRA 2015, AIRO 2015, ACII 2015, ENHANCE 2015).
- Jean-Baptiste Mouret was PC member of GECCO’2015 (Genetic and Evolutionary Computation Conference), ECAL’2015 (European Conference on Artificial Life), and EVOstar’2015.

10.1.2.3. Reviewer

- François Charpillat was a reviewer for the 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) and the 2016 IEEE International Conference on Robotics and Automation (ICRA).

- Francis Colas was a reviewer for the 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), the Fifth Joint IEEE International Conference on Development and Learning and on Epigenetics Robotics (ICDL-EPIROB), and the 2016 IEEE International Conference on Robotics and Automation (ICRA).
- Serena Ivaldi was a reviewer for the 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), the 2015 IEEE/RAS International Conference on Robotics and Automation (ICRA), the 2015 ACM Conference on Human-Robot Interaction (HRI), the 2015 IEEE/RAS International Conference on Humanoid Robots (HUMANOIDS).
- Jean-Baptiste Mouret was a reviewer for the 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) and the 2016 IEEE International Conference on Robotics and Automation (ICRA).

10.1.3. Journal

10.1.3.1. Member of Editorial Boards

- Serena Ivaldi is member of the editorial board of the Springer Journal of Intelligent Service Robotics.

10.1.3.2. Reviewer - Reviewing activities

- Amine Boumaza is a Review Editor for Frontiers in AI and Robotics.
- François Charpillet was a reviewer for Signal Processing: Image Communication.
- Francis Colas was a reviewer for Autonomous Robots, the Journal of Intelligent and Robotics Systems, and the Journal of Field Robotics.
- Serena Ivaldi was a Review Editor for Frontiers in Robotics and AI, a guest Editor for the Springer Journal Autonomous Robots, and a reviewer for IEEE Transaction on Robotics.
- Jean-Baptiste Mouret was a Review Editor for Frontiers in AI and Robotics, a guest Editor for PLOS Computation Biology, and a reviewer for IEEE Transactions on Evolutionary Computation, PLOS One, Evolutionary Computation, and IEEE Transactions on Robotics.

10.1.4. Invited Talks

- François Charpillet was invited to a round table discussion on acceptability of robotics technology, Entretiens Jacques-Cartier, in Lyon, France.
- Serena Ivaldi gave invited talks on “Social and physical interaction between humans and robots” at the University of Plymouth, UK, at the Technical University of Munich, Germany, at the NETT Workshop 2015 - Neural Engineering and related fields, Nancy, France.
- Jean-Baptiste Mouret gave invited talks on “Robots that can adapt to damage in minutes” at the EvoEvo workshop (Satellite workshop at ECAL, the European Conference for Artificial Life), York, UK, at the Ifsttar (PhD days), Aix en Provence, France, and at the Institut des Neurosciences de la Timone (PhD Days), Marseille, France.

10.1.5. Leadership Within the Scientific Community

- François Charpillet is member of the scientific committee of Robotics GDR.
- Serena Ivaldi is member of the CIS task force -web presence- for the IEEE Technical Committee on “Cognitive and Developmental Systems”.
- Jean-Baptiste Mouret is chair of the “Evo-Devo-Robot” task force of the IEEE Technical Committee on “Cognitive and Developmental Systems”.

10.1.6. Research Administration

- Amine Boumaza is a board member of the Évolution Artificielle association.
- François Charpillet is member of the LORIA laboratory board (*conseil de laboratoire*) and is member of the computer science committee of the doctoral school IAEM.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

- Master: Serena Ivaldi, “Analysis of Human Behavior”, 15h eq. TD, M2 Sciences de la Cognitive et Applications, Université de Lorraine, France;
- Master: Vincent Thomas, “Agent intelligent et collectifs”, 20h eq. TD, M1 Sciences de la Cognition et Applications, Université de Lorraine, France;
- Master: Vincent Thomas, “Game Design”, 20h eq. TD, M1 Sciences de la Cognition et Applications, Université de Lorraine, France;
- Master: Vincent Thomas, “Serious Game”, 12h eq. TD, M2 Sciences de la Cognition et Applications, Université de Lorraine, France;
- Master: Vincent Thomas, “Apprentissage numérique”, 16h eq. TD, M2 Informatique, Université de Lorraine, France.

10.2.2. Supervision

- PhD: Mihai Andries, “*Object and Human Tracking, and Robot Control through a Load-Sensing Floor*”, Université de Lorraine, 15 Dec. 2015, F. Charpillet (advisor), O. Simonin [6].
- PhD: Arsène Fansi Tchango, “*Reconnaissance comportementale et suivi multi-cible dans des environnements partiellement observés*”, Université de Lorraine, 04 Dec. 2015, A. Dutech (advisor), V. Thomas, O. Buffet [7].
- PhD in progress: Adrian Bourgaud, “*Multi-sensor Fusion and Active Sensing*”, started in Jul. 2015, François Charpillet (advisor).
- PhD in progress: Konstantinos Chatzilygeroudis, “*Diagnosis-free Damage Recovery in Robotics with Machine Learning*”, started in Oct. 2015, Jean-Baptiste Mouret (advisor).
- PhD in progress: Oriane Dermay, “*Learning to control the physical interaction of a humanoid robot with humans*”, started in Nov. 2015, François Charpillet (advisor), Serena Ivaldi.
- PhD in progress: Abdallah Dib, “*Assistance à la personne en perte d'autonomie : étude de l'apport d'un robot compagnon*”, started in Mar. 2013, F. Charpillet (advisor).
- PhD in progress: Iñaki Fernández Pérez, “*Apprentissage incrémental évolutionnaire*”, started in Oct. 2013, F. Charpillet (advisor), A. Boumaza.
- PhD in progress: Nassim Kaldé, “*Exploration et reconstruction d'un environnement inconnu par une flottille de robots*”, started in Oct. 2012, F. Charpillet (advisor), O. Simonin.
- PhD in progress: Van Quan Nguyen, “*Mapping of a sound environment by a mobile robot*”, started in Dec. 2014, E. Vincent (advisor), F. Colas, F. Charpillet.

10.2.3. Juries

- Jean-Baptiste Mouret was member of the PhD committee of:
 - Fabien Benureau, Inria Bordeaux, 18th of May, 2015.
- François Charpillet was member of the HDR committee of:
 - Jean-Baptiste Mouret, Université Pierre et Marie Curie, 16th of June, 2015.
- François Charpillet was reviewer of the HDR of:
 - Fabien Michel, Université de Montpellier, 15th of June, 2015.
- François Charpillet was reviewer of the PhD of:
 - Alan Ali, Ecole Centrale de Nantes, 21st September 2015;
 - Youwei Dong, Ecole centrale de Lille, 16th December 2015.
- François Charpillet was examiner of the PhD of:
 - Dung Tran, Université de Lorraine, 20th November 2015.

10.3. Popularization

- Amine Boumaza coached a team of programmers that participated in the R2T2 (Remote Rescue using Thymio2) Robot challenge organized by EPFL. The challenge brought together 100 children from 5 countries to save a Martian base using a group of robots (<https://www.thymio.org/en:thymio-r2t2>).
- Serena Ivaldi was portrayed in the book “Le cerveau fait-il deux choses à la fois ?” by Fiamma Luzzatti.
- Jean-Baptiste Mouret gave a talk on “Robots that can adapt to damage in minutes” at Café Neu Romance, Prague (28th of November, 2015)
- Vincent Thomas gave a talk and proposed a tutorial on “physics simulation” during “journées ISN-EPI” (15th of Mars, 2015)
- Vincent Thomas made a presentation about planning for students of Lycée Bichat-Lunéville (19th of Mars, 2015)
- Vincent Thomas participated in “journées Village Master” (9th of April, 2015)
- Vincent Thomas participated in the preparation of “Computer Science Exporoute” (conducted by Inria Nancy - Grand Est) planned for 2016
- Vincent Thomas created the exposition “jeux ateliers de la pensée” (http://ticri.univ-lorraine.fr/wicri-lor.fr/index.php/Exposition_Jeu) in 2013 with master students from cognitive sciences. This exposition is still presented in several *Bibliothèques Universitaires of Université de Lorraine (BU Brabois, BU St Dié)*.

RITS Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

Vicente Milanés Montero: advisory Committee Chair at the 2015 2nd International Conference on Computer Engineering (ICOCE 2015), Dubai, UAE October 17-18 2015.

Fawzi Nashashibi: Member of the steering committee at the 1st International Workshop on Vehicular Networking and Intelligent Transportation Systems (VENITS) at the 12th IEEE CNCC'2015 conference, January 9 - 12 2015, Las Vegas, Nevada USA.

10.1.1.2. Member of the organizing committees

Fawzi Nashashibi was member of the organizing committee of the IEEE ARSO'15 (International Workshop on Advanced Robotics and its SOcial impacts).

10.1.2. Scientific events selection

10.1.2.1. Chair of conference program committees

Fawzi Nashashibi was the Chair of the Special Sessions Committee at the IEEE ARSO 2015 (International Workshop on Advanced Robotics and its SOcial impacts) workshop, 1-3 June 2015, Lyon, France.

10.1.2.2. Member of the conference program committees

Vicente Milanés Montero: member of the International technical committee and of "Los 20 Valientes" committee of IEEE-ITSC 2015; member of the International Program Committee (IPC) in the IEEE International Conference on Vehicular Electronics and Safety 2015 and in the IEEE/TRB ICCVE 2015 (the International Conference on Connected Vehicles & Expo).

Fawzi Nashashibi: member of the Awards Committee of the IEEE International Conference on Intelligent Transportation Systems (ITSC'15), September 15-18 2015, Las Palmas, Spain.
IPC member of the IEEE ARSO 2015.

Member of the scientific committee of the JNRR (French conference on Robotics Research), October 21-23 2015, Cap Hornu, France.

Oyunchimeg Shagdar: technical program committee member of the International Workshop on Vehicular Networking and Intelligent Transportation Systems (VENITS 2015), program committee member of the IEEE International Conference on Advanced Information Networking and Applications (AINA 2016).

Anne Verroust-Blondet: technical program committee member of MMEDIA 2015.

10.1.2.3. Reviewer

Jean-Marc Lasgouttes: Intelligent Vehicles Symposium (IV2015).

Pierre Merdrignac: IEEE International Conference on Intelligent Transportation Systems (ITSC 2015), IEEE International Conference on Vehicular Electronics and Safety (ICVES 2015).

10.1.3. Journal

10.1.3.1. Member of the editorial boards

Guy Fayolle: associate editor of the journal Markov Processes and Related Fields.

Vicente Milanés Montero: editor-in-chief of Journal of Computer and Communications, associate Editor of Journal of Intelligent Transportation and Urban Planning and guest Editor SI of Electronics journal on Intelligent and Cooperative Vehicles, April 2015.

Fawzi Nashashibi: associate editor of IEEE Transactions on Intelligent vehicles.

Oyunchimeg Shagdar: associate editor of Wiley International Journal of Communication Systems.

10.1.3.2. Reviewer - Reviewing activities

Guy Fayolle: PTRF, MPRF, QUESTA, IEEE-IT, JSP, AMS Mathematical Reviews.

Jean-Marc Lasgouttes: Journal of Applied Probability.

G rard Le Lann: IEEE Communications Letters.

Vicente Milan s Montero: Journal of Dynamic Systems, Measurement and Control, Sensors, IEEE Intelligent Transportation Systems Magazine, etc.

Fawzi Nashashibi: Journal Transportation Research Part C, IJRR, IEEE Transactions on Instrumentation and Measurement, IEEE Robotics and Automation Magazine, IEEE Transactions on ITS, IEEE Transaction on Intelligent Vehicles, IEEE Robotics and Autonomous Systems, IEEE Transactions on Robotics; IEEE International Conference on Robotics and Automation (ICRA), IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), IEEE Multisensor Fusion Integration (MFI), IEEE Intelligent Transportation Systems Conference (ITSC), IEEE Int. Symposium on Intelligent Vehicles (IV).

Michel Parent: Journal of Intelligent Transportation Systems, Transportation Research Board Journal.

Joshu  P rez Rastelli: IEEE Robotics and Automation Magazine, Ad Hoc Networks, Mathematics and Computers in Simulation, Information Sciences, Dyna, Revista Bimestral de Ingenier a Multidisciplinar, Robotics, Electronics, IEEE Intelligent Transportation Systems Magazine.

Oyunchimeg Shagdar: the IEEE Wireless Communications magazine.

Anne Verroust-Blondet: Pattern Recognition, Science Magazine.

10.1.4. Invited talks

Guy Fayolle was invited speaker and session Chairman at the Symposium Honouring Professor Erol Gelenbe, Imperial College, London 21st – 24th September 2015. He presented the paper [44].

G rard Le Lann: "Safe Fully Automated Driving on Roads and Highways: Pie in the Sky or Future Reality?", SystemX Seminar, Palaiseau, October 20, 2015.

Fawzi Nashashibi was an invited at the ITS World Congress, Topic 6: Automated Roads, Automated Management, Automated Driving, Session II08 - "What's the science inside the autonomous vehicle", October 8, 2015, Bordeaux, France.

10.1.5. Scientific expertise

Guy Fayolle is scientific advisor at the Robotics Laboratory of Mines ParisTech. He has been working in particular on the COVADEC project (type FUI/FEDER 15), which deals with the implementation of ADAS (Advanced Driver Assistance Systems).

Vicente Milan s Montero: reviewer for UAE national projects.

Fawzi Nashashibi: expert/reviewer of Dutch and Portuguese National projects.

Anne Verroust-Blondet: expert/reviewer for the French National Research Agency ("Blanc" programme of ANR) and for the Italian Ministry of Cultural Heritage and Activities (JPI Cultural Heritage program).

10.1.6. Research administration

Guy Fayolle is a member of the working group IFIP WG 7.3.

Fawzi Nashashibi is a member of the international Automated Highway Board Committee of the TRB (AHB30).

Michel Parent is a member of ISO TC184 SC2 (Service Robots) and of ISO TC204 WG14 on the standards for driving assistance and full automatic driving.

Anne Verroust-Blondet is the scientific correspondent of the European affairs and of the International relations of Inria Paris-Rocquencourt. She is member of the COST-GTRI committee at Inria.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Licence: Fawzi Nashashibi, "Programmation avancée", 84h, L1, Université Paris-8 Saint-Denis, France

Licence: Guillaume Tréhard, "C++ programming language", 20h, L1, DUT Génie Electrique et Informatique Industrielle, IUT Chartres, France

Master: Jean-Marc Lasgouttes, "Analyse de données", 59.5h, second year of Magistère de Finance (M1), University Paris 1 Panthéon Sorbonne, France

Master: Fawzi Nashashibi, "Programmation C++/OpenGL", 16h, 2nd year (MAREVA), Mines ParisTech, France

Master: Fawzi Nashashibi, "Synthèse d'images", 12h, M2, INT Télécom SudParis

Master: Fawzi Nashashibi, "Détection d'obstacle et fusion multicapteurs", 4h, M2, INSA de Rouen

Master: Joshué Pérez Rastelli, "Robotique et contrôle temps réel", 15h, M1, Leonard Da Vinci University -l'ESILV- (La Defense, France), Apr-May 2015.

Master: Joshué Pérez Rastelli, "Standards for Automobiles", 30 h, M2, François Rabelais University (Tours, France), François Rabelais University (Tours, France), Feb-March 2015.

Master: Joshué Pérez Rastelli, "Digital environment and road -ITS applications-", 32.5 h, M2, Feb-March 2015.

Master: Oyunchimeg Shagdar, "Nouvelles technologies de communication", 32h, M2, University Versailles Saint-Quentin, France.

Master: Guillaume Tréhard, "C++ programming language", M1, 20h, Paris 8 University, France

Master: Vicente Milanés Montero and Anne Verroust-Blondet, "Le véhicule autonome. Présentation des recherches de l'équipe-projet RITS", 1.5 h, 2nd year, Ecole des Ponts ParisTech, France, Sept. 2015.

10.2.2. Supervision

PhD : Pierre Merdrignac, "Système coopératif de perception et de communication pour la protection des usagers vulnérables", Mines ParisTech, October 2015, supervisor: Fawzi Nashashibi, co-supervisor: Oyunchimeg Shagdar.

PhD : Sofiene Mouine, "Identification d'espèces végétales par une description géométrique locale d'images de feuilles", Télécom ParisTech, April 2015, supervisor: Anne Verroust-Blondet, co-supervisor: Itheri Yahiaoui.

PhD : Zahraa Yasseen, "Garment Design and Shape description for Sketch-Based Applications", Télécom ParisTech, June 2015, supervisor: Anne Verroust-Blondet, co-supervisor: Ahmad Nasri.

PhD in progress : Mohammad Abu Alhoul, "Communications par lumière visible et communications radio pour La Conduite Automatique", Mines ParisTech, September 2013, supervisor: Fawzi Nashashibi, co-supervisor: Oyunchimeg Shagdar.

PhD in progress : Zayed Al-Sayed, "Système de localisation redondant en environnement extérieur ouvert pour véhicule urbain automatique", Télécom ParisTech, October 2014, supervisor: Anne Verroust-Blondet, co-supervisor: Guillaume Bresson.

PhD in progress : Younes Bouchaala, "Utilisation de la communication véhicule-à-véhicule pour l'amélioration de la sécurité sur la route", Université de Versailles, October 2014, supervisor: Paul Muhlethaler, co-supervisor: Oyunchimeg Shagdar.

PhD in progress : David Gonzalez Bautista, "Contrôle coordonné et planification dynamique des trajectoires pour un système de transport cybernétique en milieu urbain instrumenté", Mines ParisTech, January 2014, supervisor: Fawzi Nashashibi, co-supervisor: Joshué Pérez-Rastelli.

PhD in progress : Fernando Garrido, "Optimal trajectory generation for autonomous vehicles in smart cities", Mines ParisTech, November 2014, supervisor: Fawzi Nashashibi, co-supervisor: Joshué Pérez-Rastelli.

PhD in progress : Mohamed Yassine Maddouri, "Intégration multi-sensorielle multi-capteurs pour la protection des personnes vulnérables", January 2015, supervisor: Abelaziz Bensrhair, co-supervisor: Fawzi Nashashibi.

PhD in progress : Francisco Navas Matos, "Synthesis of stable control algorithms for dynamic multi-input plants", Mines ParisTech, October 2015, supervisor: Fawzi Nashashibi, co-supervisor: Vicente Milanés Montero.

PhD in progress : Dinh-Van Nguyen, "Wireless sensor networks for indoor mapping and accurate localization for low speed navigation in smart cities", Mines ParisTech, December 2015, supervisor: Fawzi Nashashibi, co-supervisor: Eric Castelli.

PhD in progress : Carlos Eduardo Flores Pino, "Analysis and design of cooperative systems for trains of green cars", Mines ParisTech, December 2015, supervisor: Fawzi Nashashibi, co-supervisor: Vicente Milanés Montero.

PhD in progress : Guillaume Trehard, "Gestion des intersections pour la conduite urbaine autonome", Mines ParisTech, October 2012, supervisor: Fawzi Nashashibi, co-supervisor: Evangeline Pollard.

10.2.3. Juries

Fawzi Nashashibi was a reviewer of the following HDR defense:

Jean-Philippe LAUFFENBURGER, "Vers l'autonomie des véhicules routiers : de la commande des systèmes à la perception de l'environnement", Université de Haute-Alsace, Mulhouse, defended on December 7th, 2015.

Fawzi Nashashibi was a reviewer of the following PdD thesis defense:

Alan ALI, "Modélisation et commande d'un convoi de véhicules urbains", Ecole Centrale de Nantes, September 21, 2015.

José Miguel VILCA-VENTURA, "Safe and Flexible Hybrid Control Architecture for the Navigation in Formation of a Group of Vehicles", Université Blaise Pascal-Clermont II, October 26, 2015.

Nawal ALIOUA, "Extraction et analyse des caractéristiques faciales: Application à l'hypovigilance chez le conducteur", Université de Normandie (INSA de Rouen) & Université Mohamed V du Maroc, March 23, 2015.

Wenjie LU, "Contribution à la Localisation de Véhicules Intelligents à partir de Marquages Routiers", Université de Paris Sud Orsay, February 9, 2015.

Fawzi Nashashibi was a reviewer and member of the GdR Robotique PhD thesis Award Committee. He reviewed 2 PhD thesis.

Anne Verroust-Blondet was a reviewer of the following PhD thesis defense:

Nicolas Chérin, "Modélisation géométrique à partir de croquis", Université de Haute-Alsace, Mulhouse, defended on September 23, 2015.

10.3. Popularization

As part of the week of mathematics organized by the Ministry of Education, which theme this year was “les mathématiques nous transportent”, Jean-Marc Lasgouttes presented the transportation-related research at Inria, as well of some simple traffic jam models.

Fawzi Nashashibi participated to the "Rencontres Inria Industrie" organized by Inria@SiliconValley on the topic of "Smart City and Mobility". He gave a speech on "On-demand transportation system for sustainable mobility in smart cities", May 11, San Francisco, USA.

Fawzi Nashashibi participated to a round table organized by La Recherche and Le Monde on "The vehicle of the future: which car in 10 years ?" at Arts-et-Métiers, May 28, Paris, France.

Fawzi Nashashibi participated to the round table on "Ethical and legal questions in robotics" at the 1st National day on "Ethics of digital research" organized by the CERNA at the Mines Telecom Institute, June 15, 2015, Paris, France.

Fawzi Nashashibi organized with Christian Laugier the round table on "Intelligent Mobility" at the joint Innorobo/IEEE ARSO'15 workshop day, July 2, Lyon, France.

Fawzi Nashashibi gave a presentation on "How does the climate change affect mobility and transportation ?" at Solution COP21 exhibition, Paris, December 2015. (Video Link: <http://www.dailymotion.com/video/x3h8vpm>)

AYIN Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- Josiane Zerubia was General Chair with Prof. Konrad Schindler (ETH Zurich) of the EARTHVISION workshop at CVPR'15 [<http://www.pamitc.org/cvpr15/workshops.php>] in Boston, USA, in June.
- Josiane Zerubia was Plenary talks Chair with Prof Sergios Theodoridis (University of Athens) of IEEE/EURASIP EUSIPCO'15 conference [<http://www.eusipco2015.org/content/keynotes>] in Nice, France, in September.
- Josiane Zerubia was Scientific Chair of the workshop on Stochastic Geometry and Big Data [<https://team.inria.fr/ayin/workshop/>] in Sophia Antipolis, France, in November.

10.1.1.2. Member of the organizing committees

- Josiane Zerubia was part of the organizing committee of IEEE/EURASIP EUSIPCO'15 conference [<http://www.eusipco2015.org/content/organising-committee>] in Nice, looking for the sponsoring of Inria (Bronze sponsor + Best Student Award sponsor).
- Josiane Zerubia also organized the workshop on Stochastic Geometry and Big Data [<https://team.inria.fr/ayin/workshop/>] in Sophia-Antipolis, financially supported by Airbus D&S, CNRS (GdR GeoStoch) and Inria.

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- Josiane Zerubia was part of the conference program committee of EMMCVPR'15 [<http://blog.ust.hk/emmcvpr/people/>] in Hong Kong, China, in January.
- Josiane Zerubia was part of the conference program committee of ISPRS/SPIE Remote Sensing'15 [<http://spie.org/spieremotesensing>] and [<http://eventegg.com/spie-2015-toulouse/>] in Toulouse, France, in September.

10.1.2.2. Reviewer

- Nazre Batool was a reviewer for the conference IEEE ICIP'15
- Josiane Zerubia was a reviewer for the conferences EMMCVPR'15, IEEE ICASSP'15, IEEE ICIP'15, IEEE EMBS'15, IEEE-EURASIP EUSIPCO'15, ISPRS-SPIE Remote Sensing'15, TAIMA'15 and GRETSI'15.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- Josiane Zerubia is an Associate Editor of the collection "Foundation and Trends in Signal Processing" [<http://www.nowpublishers.com/>].
- Josiane Zerubia is a member of the Editorial Board of the "Revue Française de Photogrammétrie et de Télédétection of SFPT" [<http://www.sfpt.fr/rfpt/>].
- Josiane Zerubia is an Associate Editor of the electronic journal Earthzine [<http://www.earthzine.org/>].

10.1.3.2. Reviewer - Reviewing activities

- Seong-Gyun Jeong was a reviewer for the journals APSIPA TSIP, IEEE TCSVT and ELS JVCIR.
- Paula Craciun was a reviewer for IEEE JSTARS journal.
- Ihsen Hedhli was a reviewer for IEEE TGRS, TGRL and TIP journals.
- Nazre Batool was a reviewer for IEEE TIP and JSTARS, and Elsevier Expert Systems with Applications journals.
- Josiane Zerubia was part of SFPT/RFPT Best Paper Award committee in 2015 to evaluate the papers from the year 2014 [<http://www.sfpt.fr/revue/prix-etudiant-sfpt/>].

10.1.4. Invited talks

- Paula Craciun gave a seminar at the Center for Vision, Cognition, Learning and Autonomy, at University of California Los Angeles, USA (invited by Prof. Song-Chun Zhu [<http://vcla.stat.ucla.edu/people.html>]) and the Computer Vision Group, University of California Berkeley, USA (invited by Prof. Jitendra Malik [<http://www.eecs.berkeley.edu/Research/Projects/CS/vision/>]) in January 2015 on joint detection and tracking of moving objects using spatio-temporal marked point processes. Paula Craciun also gave a seminar at the University of Lille 1, France (invited by Dr. Radu Stoica [<http://math.univ-lille1.fr/~stoica/>]) in September 2015 on a similar topic.
- Nazre Batool gave a seminar on modeling and analysis of wrinkles on aging human faces at the Computer Vision Lab, at ETH Zurich, Switzerland (invited by Dr. Orcun Goksel [<http://www.vision.ee.ethz.ch/~ogoksel/>]), in June 2015. Nazre Batool also gave a seminar on modeling of facial wrinkles in aging human faces, at the Multimedia and Visual Computing Lab, at New York University in Abu Dhabi (NYUAD), UAE (invited by Dr. Yi Fang [<http://nyuad.nyu.edu/en/academics/faculty/yi-fang.html>]), in April 2015.
- Josiane Zerubia gave a seminar on marked point processes for object detection in high resolution images at the School of Computer Science and Statistics, at Trinity College Dublin, Ireland (invited by Prof. Rozenn Dahyot [<https://www.cs.tcd.ie/Rozenn.Dahyot/>]), in April 2015. She also gave a seminar on assessing skin lesion evolution from multispectral image sequences at ONERA/DOTA in Toulouse, France (invited by Dr Xavier Briottet [<http://www.onera.fr/dota/>]), in January 2015.

10.1.5. Leadership within the scientific community

- Josiane Zerubia is IEEE Fellow since 2003 and IEEE SPS Distinguished Lecturer since November 2015. ([http://www.ieee.org/membership_services/membership/fellows/index.html], [<http://www.signalprocessingsociety.org/community/lectures/>]).

10.1.6. Scientific expertise

- Nazre Batool was a reviewer for the Austrian Science Fund, FWF, Austria in 2015 [<https://www.fwf.ac.at/en/research-funding/fwf-programmes/>]
- Josiane Zerubia was a reviewer for the Natural Sciences and Engineering Research Council of Canada, NSERC, Canada in 2015 [<http://www.nserc-crsng.gc.ca>].
- Josiane Zerubia also worked as a remote sensing expert for the preparation of the Thales Alenia Space/Inria Chile Symposium in collaboration with Claude Puech and Hervé Coulomb (see [<http://inria.cl/>] and [<http://www.inria.fr/actualite/actualites-inria/inria-chile-acteur-de-l-innovation>]), and prepared in collaboration with Vladimir Krylov a presentation entitled "the Use of Remotely Sensed Optical Imagery for Civil Applications at Inria" given at this symposium on April 29, 2015, in Chile.
- Josiane Zerubia was a reviewer for the IRD Post-Doctoral Fellowship Program, France, in 2015 [<https://www.ird.fr/nous-rejoindre/l-ird-recrute/accueil-de-post-doctorants-campagne-2015-resultats-disponibles>].
- Josiane Zerubia is part of the Scientific Council of Academy 3 of UCA-Jedi [<http://univ-cotedazur.fr/english>] dedicated to "Space, Environment, Risks and Resilience".
- Josiane Zerubia was member of the working group for the creation of the GraphDeco team [<https://team.inria.fr/graphdeco/>] at Inria-SAM.

10.1.7. Research administration

- Josiane Zerubia is part of the Board of Directors of the French Photogrammetry and Remote Sensing Society [<http://www.sfpt.fr/sfpt/bureau/>].

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

- Masters: Ihsen Hedhli, Introduction to Image Processing, TP & TD in Matlab, 10h eq. TD, M2 SVS ISAB, Université de Nice Sophia-Antipolis, France.
- Masters: Josiane Zerubia, Advanced Techniques in Signal and Image Processing, 30h eq. TD (20h of lectures), ISAE/SUPAERO, France. Josiane Zerubia is also director of this course (total: 30h of lectures and 10h of TD). This course was given to third-year students at ISAE/SUPAERO and was also validated by the M2 of Applied Mathematics at the University Toulouse III Paul Sabatier, France.
- Masters: Josiane Zerubia, Deconvolution and Denoising in Confocal Microscopy, 18h eq. TD (12h of lectures), M2 BCC, Université de Nice Sophia-Antipolis, France. Josiane Zerubia is also director of this course (total: 24h of lectures).
- Masters: Josiane Zerubia, Introduction to Image Processing, 4.5h eq. TD (3h of lectures), M2 SVS ISAB, Université de Nice Sophia-Antipolis, France. Josiane Zerubia is also director of the course “Digital imaging” at UNS, Master 2 SVS ISAB, UE3 (total: 25h of lectures and 25h of TD).
- Doctoral School (PhD level): Josiane Zerubia, Hierarchical Markovian Models and MCMC Optimisation Techniques, 9h eq. TD (6h of lectures), SUPCOM Tunis Doctoral School, Tunisia. This course was also validated by ENSI Tunis and EP Tunis Doctoral Schools, Tunisia.
- Summer Shool (PhD and Post-doc level): Josiane Zerubia, Image Deconvolution and Denoising for Confocal Microscopy, 6h eq. TD (4h of lectures) at SSMIA’15, Sinaia, Romania. The courses of SSMIA’15 were validated by University Politehnica of Bucharest and Titu Maiorescu University, Bucharest, Romania, and by Technion-Israel Institute of Technology, Israel. See [http://imag.pub.ro/ssima/?page_id=44] and [<https://www.youtube.com/watch?v=1wnmL8P8arQ>].

10.2.2. Supervision

PhD (defended): Paula Craciun, Stochastic geometry for automatic object detection and tracking in remotely sensed image sequences, University of Nice-Sophia Antipolis, started in December 2012, defended in November 2015, Josiane Zerubia.

PhD (defended): Seong-Gyun Jeong, Curvilinear structure modeling and its applications in computer vision, University of Nice-Sophia Antipolis, started in December 2012, defended in November 2015, Josiane Zerubia and Yuliya Tarabalka.

PhD (in progress): Ihsen Hedhli, Change detection methods for multisensor and multiresolution remote sensing images for applications to environmental disaster management, University of Genoa and University of Nice-Sophia Antipolis, started in January 2013, Gabriele Moser and Josiane Zerubia.

10.2.3. Juries

- Josiane Zerubia was a member of the Jury for the Masters BioComp defenses at University of Nice Sophia-Antipolis in August 2015.
- Josiane Zerubia was a reviewer of a PhD thesis at SUPCOM Tunis, Tunisia, and a member of the PhD defense committee in Tunis, in April 2015.
- Josiane Zerubia was a member of a PhD defense committee (joint PhD thesis between Paris-Saclay University, CentraleSupélec and ENSEEIHT) in Toulouse, in October 2015.

- Josiane Zerubia was a member of two PhD defense committees at University of Nice Sophia-Antipolis/Inria, in Sophia-Antipolis, in November 2015.
- Josiane Zerubia was a reviewer of a joint PhD thesis (cotutelle) between University of Bordeaux, France, and University of Rabat, Morocco, and a member of the PhD defense committee in Bordeaux, in December 2015.

10.3. Popularization

- Paula Craciun and Josiane Zerubia wrote a brief scientific popularization article entitled "high resolution satellite imaging" for the book "Mathematics of Planet Earth" published by SIAM in 2015.
- Ihsen Hedhli and Josiane Zerubia hosted in AYIN team during one full day, a schoolboy from "Collège l'Archet", Nice, and a schoolgirl from "collège l'Eganaude", Biot, France. Furthermore, Josiane Zerubia was in charge of the schoolboy internship at Inria-SAM during one week in December 2015.
- Josiane Zerubia provided Hachette publisher with a land cover classification image obtained by an energy minimization based method to make the front cover of a text book of Physics in Ivory Coast.
- Josiane Zerubia participated in the Women in Computer Vision workshop at CVPR'15 in Boston, in June [<https://sites.google.com/site/wicv2015/home>]. She was the mentor of 4 female PhD students from USA, Taiwan, PR China and Sri Lanka, during the dinner organized afterwards.
- Josiane Zerubia presented Inria and Inria-SAM to interested PhD and post-doc students at both SUPCOM Tunis in Tunisia and Trinity College Dublin, Ireland.
- Josiane Zerubia is organizing a monthly scientific seminar at Inria-SAM with national and international speakers (see [<https://team.inria.fr/ayin/ayinseminars/>]).

LEAR Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- C. Schmid was general chair for IEEE Conference on Computer Vision and Pattern Recognition, 2015.

10.1.1.2. Member of the organizing committees

- C. Schmid and K. Alahari organized the ALLEGRO Workshop on weakly supervised learning and video recognition, Grenoble, 2015.
- J. Verbeek: Co-organizer Physionomie workshop at European Academy of Forensic Science conference, Prague, Czech Republic, September 9
- Z. Harchaoui: Co-organizer of the Optimization and Statistical Learning workshop, Les Houches, France, January 2015.
- Z. Harchaoui and J. Mairal: Co-organizers of the Large-scale Learning summer school, Grenoble, France, Spring 2015.
- Z. Harchaoui: Co-organizer of the Future of Artificial Intelligence Symposium, New York University, January 2016.
- G. Rodez: co-organizer of the IEEE CVPR Workshop on Observing and Understanding hands in action (HANDS 2015)

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- C. Schmid: area chair for ICCV'15.
- J. Mairal: area chair for ICML'15, ICCV'15, CVPR'16, ICLR'16, NIPS'16.
- Z. Harchaoui: area chair for ICML'15, ICML'16, NIPS'16.
- J. Verbeek: area chair for CVPR'15. tutorial chair for ECCV'16.

10.1.2.2. Reviewer

The permanent members of the team reviewed numerous papers for numerous international conferences in computer vision and machine learning: CVPR, ECCV, NIPS, ICML, AISTATS.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- C. Schmid: Editor in Chief of the International Journal of Computer Vision, since 2013.
- C. Schmid: Associate editor for Foundations and Trends in Computer Graphics and Vision, since 2005.
- J. Verbeek: Associate editor for Image and Vision Computing Journal, since 2011.
- J. Verbeek: Associate editor for the International Journal on Computer Vision, since 2014.
- J. Mairal: Associate editor of the International Journal of Computer Vision (IJCV), since 2015.
- J. Mairal: Senior associate editor for IEEE Signal Processing Letters, since August 2014 (senior editor since Feb. 2015).

- J. Mairal: Associate editor of Journal on Mathematical Imaging and Vision (JMIV), since 2015.
- J. Mairal: Guest editor for the Special Issue on Sparse Coding of the International Journal of Computer Vision. 2015.
- K. Alahari. Guest editor for the Special Issue on “Higher Order Graphical Models in Computer Vision: Modelling, Inference & Learning” IEEE Transactions on Pattern Analysis and Machine Intelligence, Volume 37, Issue 7, July 2015

10.1.3.2. Reviewer - Reviewing activities

The permanent members of the team reviewed numerous papers for numerous international journals in computer vision (IJCV, PAMI,CVIU), machine learning (JMLR, Machine Learning). Some of them are also reviewing for journals in optimization (SIAM Journal on Optimization), image processing (SIAM Imaging Science), information theory (IEEE Transactions on Information Theory), statistics (Bernoulli, Annals of Statistics, Journal of American Statistical Association).

10.1.4. Invited talks

- C. Schmid: Speaker at the Scenes from Video Workshop, Santa Cruz, Chile, December 2015.
- C. Schmid: Invited speaker at the Google Deep Video Workshop, Santa Cruz, USA, November 2015.
- C. Schmid: Invited speaker at the Human Robot Interaction Workshop at UC Berkeley, November 2015.
- C. Schmid: Invited speaker at workshop on pose recovery, action recognition, and cultural event recognition, in conjunction with CVPR'15, June 2015.
- C. Schmid: Seminar at Berkeley University, November 2015.
- C. Schmid: Seminar at Stanford University, June 2015.
- C. Schmid: Seminar at Google, Mountain View, June 2015.
- C. Schmid: Seminar at Facebook AI Research lab, New York, May 2015.
- C. Schmid: Seminar at CMU, Pittsburgh, May 2015.
- C. Schmid: Seminar at Oxford University, March 2015.
- C. Schmid: Seminar at Gatsby Computational Neuroscience Unit, London, March 2015.
- C. Schmid: Seminar at MPI, Tübingen, February 2015.
- K. Alahari: Keynote talk at 5th Workshop on Algorithmic issues for Inference in Graphical Models (AIGM), Paris, France, September 2015
- K. Alahari: Invited talk at Universidad de Cordoba, Cordoba, Spain, May 2015
- K. Alahari: Invited talk at 36th Pattern Recognition and Computer Vision Colloquium, CTU, Prague, Czech Republic, April 2015
- Z. Harchaoui: Seminar at New-York university, March 2015.
- Z. Harchaoui: Invited talk at the Inria at Silicon valley workshop, May 2015.
- Z. Harchaoui: Invited talk at the workshop on “large-scale kernel learning”, ICML, Lille, July 2015.
- J. Verbeek: DGA workshop on Big Data in Multimedia Information Processing, invited speaker, Paris, France, October 22.
- J. Verbeek: Physionomie workshop at European Academy of Forensic Science conference, speaker, Prague, Czech Republic, September 9.
- J. Verbeek: StatLearn workshop, invited speaker, April 13, 2015, Grenoble, France.
- J. Verbeek: Société Française de Statistique, Institut Henri Poincaré, Paris, France, October 23.
- J. Verbeek: Center for Machine Perception, Czech Technical University, Prague, Czech Republic, September 8.

- J. Verbeek: Dept. of Information Engineering and Computer Science, University of Trento, Italy, March 16.
- J. Verbeek: Computer Vision Center, Barcelona, Spain, February 13.
- J. Mairal: Invited talk at the BASP frontiers workshop, February 2015.
- J. Mairal: StatLab Seminar at Cambridge University, March 2015.
- J. Mairal: Invited talk at the CIMI workshop, Toulouse, October 2015.
- H. Lin: workshop TITAN, Grenoble, November 2015.

10.1.5. Scientific expertise

- C. Schmid is member of the PAMI-TC awards committee, and the PAMI-TC executive committee.
- K. Alahari: Reviewer for the National Sciences and Engineering Research Council of Canada (NSERC).
- J. Mairal: reviewer for grant proposals from ANR and COFECUB.

10.1.6. Research administration

- C. Schmid is member of the “comité d’orientations scientifiques”. Inria Grenoble, 2015.
- J. Mairal participated to the prospecting group from the PROSPER network in 2015.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Doctorat: C. Schmid, Course on action recognition at Computational Vision Summer School, Freudenstadt, Germany, July 2015.

Doctorat: Z. Harchaoui, “Machine Learning for Computer Vision,” MLSS, Kyoto, Japan.

Doctorat: J. Mairal, “Dictionary Learning”, 6H, CIMI summer school, Toulouse, France.

Doctorat: J. Mairal, “Introduction to sparse estimation”, 4H, BigOptim summer school, Grenoble, France.

Master : C. Schmid, “Object recognition and computer vision”, 10H, M2, ENS Cachan, France.

Master: Z. Harchaoui, “Computational Machine Learning”, New York University.

Master : J. Verbeek and C. Schmid. “Machine Learning & Category Representation”, 27H eqTD, M2, Univ. Grenoble.

Master : J. Verbeek and J. Mairal, “Kernel Methods for Statistical Learning”, 27H eqTD, M2, ENSIMAG, Grenoble.

Master: J. Mairal, “Introduction to sparse estimation”, 4H, M2, PSL-ITI, France.

Master: M. Douze, K. Alahari, “Bases de données multimedia”, Grenoble INP - ENSIMAG, January 2015.

Licence: H. Lin, Apprentissage du raisonnement, algèbre linéaire et analyse élémentaire.” 38H, L1, Grenoble univ., France.

Licence: P. Weinzaepfel, “Introduction à UNIX et à la programmation en langage C”, 67.5H TD, L1, DLST Grenoble.

10.2.2. Supervision

PhD: D. Oneata, “Robust and efficient models for action recognition and localization”, Grenoble Univ, July 2015, advisors: C. Schmid and J. Verbeek.

PhD: D. Potapov, Supervised Learning Approaches for Automatic Structuring of Videos, July 2015. Advisors: Z. Harchaoui and C. Schmid.

10.2.3. Juries

C. Schmid: Vincent Lepetit, decembre 2015, HDR examinateur, univ. Grenoble

C. Schmid: Nicolas Thome, juillet 2015, HDR examinateur, univ. Pierre et Marie Curie, Paris

C. Schmid: Vincent Delaitre, avril 2015, these, examinateur, ENS Ulm

LINKMEDIA Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events organisation

9.1.1.1. General chair, scientific chair

Teddy Furon co-organized a GdR-ISIS workshop on Biometrics, Multimedia Indexing and Privacy.

Guillaume Gravier was general chair of the ACM Multimedia Third Workshop on Speech, Language and Audio in Multimedia (SLAM 2015) and is president of the steering committee of the workshop.

Pascale Sébillot was a member of the acting presidency of Conf. Francophone en Traitement Automatique des Langues Naturelles.

Pascale Sébillot is a member of the permanent steering committee of Conf. Francophone en Traitement Automatique des Langues Naturelles.

9.1.2. Scientific events selection

9.1.2.1. Chair of conference program committees

Vincent Claveau was area chair of Conf. Francophone en Traitement Automatique des Langues Naturelles.

Guillaume Gravier was chair of the program committee of the ACM Multimedia Third Workshop on Speech, Language and Audio in Multimedia (SLAM 2015).

Pascale Sébillot was area chair of Conf. Francophone en Traitement Automatique des Langues Naturelles.

9.1.2.2. Member of the conference program committees

Laurent Amsaleg was a PC member of: ACM Intl. Conf. on Multimedia; VISI, ACM Intl. Conf. on Multimedia Retrieval; IEEE Intl. Conf. on Multimedia and Exhibition; Intl. Conf. on Multimedia Modeling; Intl. Workshop on Content-Based Multimedia Indexing; Intl. Conf. on Similarity Search and Applications; Intl. Conf. on Signal Image Technology & Internet-based Systems.

Vincent Claveau was a PC member of: Conf. en Recherche d'Information et Applications; Intl. Conf. on Web Intelligence.

Teddy Furon was a PC member of: IEEE Work. on Information Forensics and Security; Intl. Conf. on Acoustics, Speech and Signal Processing; Intl. Conf. on Multimedia, Communication and Computing; ACM Intl. Conf. on Multimedia; European Signal Processing Conf.

Guillaume Gravier was a PC member of: ACM Intl. Conf. on Multimedia; IEEE Intl. Conf. on Multimedia and Exhibition; Annual Conf. of the Intl. Speech Communication Association; IEEE Intl. Workshop on Multimedia Signal Processing; Intl. Workshop on Content-Based Multimedia Indexing; Intl. Conf. on Knowledge and Systems Engineering; Intl. Conf. on Statistical Language and Speech Processing.

Ewa Kijak was a PC member of Intl. Workshop on Content-Based Multimedia Indexing.

Christian Raymond was a PC member of: Annual Conf. of the Intl. Speech Communication Association; Conf. Francophone en Traitement Automatique des Langues Naturelles.

Pascale Sébillot was a PC member of Intl. Conf. on Terminology and Artificial Intelligence.

9.1.2.3. Reviewer

Vincent Claveau was a reviewer of: Intl. Conf. on Machine Learning.

9.1.3. Journal

9.1.3.1. Member of the editorial boards

Vincent Claveau is member of the editorial board of the journal *Traitement Automatique des Langues*.

Teddy Furon was member of the editorial board of *IEEE Trans. on Information Forensics and Security* (up to March 2015).

Christian Raymond is member of the editorial board of the online journal *Discours*.

Pascale Sébillot is: editor of the *Journal Traitement Automatique des Langues*; member of the editorial committee of the *Journal Traitement Automatique des Langues*.

9.1.3.2. Reviewer - Reviewing activities

Laurent Amsaleg reviewed for *Knowledge and Information Systems*.

Vincent Claveau reviewed for: *Multimedia Tools and Applications*, *Traitement Automatique des Langues*.

Teddy Furon reviewed for: *IEEE Trans. on Information Forensics and Security*; *IEEE Trans. on Multimedia, Data Mining and Knowledge Discovery*; *ACM Trans. on Information Systems*; *IEEE Trans. on Circuits and Systems for Video Technology*; *Digital Signal Processing Journal*; *Applied and Computational Harmonic Analysis Journal*; *IET Information Security Journal*.

Guillaume Gravier reviewed for: *IEEE Trans. on Audio Speech and Language*; *IEEE Trans. on Image Processing*; *EURASIP Journal on Audio, Speech, and Music Processing*; *Journal of Computer Science and Technology*; *Multimedia Tools and Applications*;

Christian Raymond reviewed for *Computer Speech and Language*.

Pascale Sébillot was member of the reading committee for several issues of the *Journal Traitement Automatique des Langues*.

9.1.4. Invited talks

Vincent Claveau gave an invited talk about biomedical NLP in Rennes University Hospital's computer science department.

9.1.5. Leadership within the scientific community

Vincent Claveau is finance head of the *Association pour la Recherche d'Informations et ses Applications (ARIA)*.

Vincent Claveau is deputy head of the *GdR MaDICS*, a CNRS inter-lab initiative to promote research about Big Data and Data Science.

Guillaume Gravier is president of the *Association Francophone de la Communication Parlée (AFPC)*, French-speaking branch of the *Intl. Speech Communication Association*.

Guillaume Gravier is co-founder and general chair of the *ISCA SIG Speech, Language and Audio in Multimedia*.

Guillaume Gravier is member of the *Community Council of the Mediaeval Multimedia Evaluation series*.

Guillaume Gravier is the technical representative of Inria in the *cPPP Big Data Value Association*, actively working on technical aspects of data analytics.

9.1.6. Scientific expertise

Vincent Claveau served as expert for the *ERC Consolidator grant programme*, for the *FNRS (Belgian Funding agency)*, for the *Programme Hubert Curien*.

Teddy Furon reviewed projects for *Alpes Grenoble Innovation* and *French National Research Agency (ANR)*.

Teddy Furon is the scientific adviser for startup company *Lamark* (20 % of his time since July 2015).

Guillaume Gravier was vice-president of the Scientific Evaluation Committee of the National Research Agency for the theme 'HCI, Content, Knowledge, Big Data, Simulation, HPC'.

Pascale Sébillot reviewed projects for the Natural Sciences and Engineering Research Council of Canada.

9.1.7. Research administration

Guillaume Gravier is a member of the Board of the technology cluster Images & Réseaux.

Guillaume Gravier is a member of the Board of the Comité des Projets of Inria - Rennes Bretagne Atlantique.

Pascale Sébillot is a member of the Conseil National des Universités.

Pascale Sébillot is a member of the theses advisory committee of the Matisse doctoral school.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

For reseachers, all activities are given. For professors and assistant professors, only courses at the M. Sc. level are listed.

Master: Laurent Amsaleg, Multidimensional indexing, 13h, M2R, University Rennes 1, France

Master: Vincent Claveau, Data-Based Knowledge Acquisition: Symbolic Methods, 20h, M1, INSA de Rennes, France

Master: Vincent Claveau, Text Mining, 36h, M2, Univ. Rennes 1, France

Master: Vincent Claveau, Machine Learning for symbolic and sequential data, 7h, M2, Univ. Rennes 1, France

Master: Vincent Claveau, Information Retrieval, 15h, M2, ENSSAT, France

Master: Vincent Claveau, Information Retrieval, 13h, M2, Univ. Rennes 1, France

Licence: Teddy Furon, Probabilities, 40h, L1, Agrocampus Rennes, France

Licence: Guillaume Gravier, Databases, 30h, L2, INSA Rennes, France

Licence: Guillaume Gravier, Probability and statistics, 10h, L3, INSA Rennes, France

Master: Guillaume Gravier, Data analysis and probabilistic modeling, 30h, M2, University Rennes 1, France

Master: Ewa Kijak, Image processing, 64h, M1, ESIR, France

Master: Ewa Kijak, Supervised learning, 15h, M2R, University Rennes 1, France

Master: Ewa Kijak, Statistical data mining, 13h, M2, University Rennes 1, France

Master: Ewa Kijak, Indexing and multimedia databases, 15h, M2, ENSSAT, France

Master: Ewa Kijak, Computer vision, 15h, M2, ESIR, France

Master: Simon Malinowski, Short-term time series prediction, 29h, M1, Univ. Rennes 1

Master: Simon Malinowski, Supervised Learning, 10h, M2, Univ. Rennes 1

Master: Pascale Sébillot, Advanced Databases and Modern Information Systems, 70h, M2, INSA Rennes, France

Master: Pascale Sébillot, Data-Based Knowledge Acquisition: Symbolic Methods, 18h, M1, INSA Rennes, France

Master: Pascale Sébillot, Logic Programming, 12h, M1, INSA Rennes, France

9.2.2. Supervision

PhD: Mohammed-Haykel Boukadida, Video summarization based on constraint programming, defended Dec. 2015, Patrick Gros

PhD: Bingqing Qu, Structure discovery in collections of recurrent TV programs, defended Dec. 2015, Guillaume Gravier

PhD: Anca Roxana Simon, Semantic structuring of video collections from speech: segmentation and hyperlinking, defended Dec. 2015, Guillaume Gravier and Pascale Sébillot

PhD in progress: Raghavendran Balu, Privacy-preserving data aggregation and service personalization using highly-scalable data indexing techniques, started Oct. 2013, Teddy Furon and Laurent Amsaleg

PhD in progress: Rémi Bois, Navigable directed multimedia hypergraphs: construction and exploitation, started October 2014, Guillaume Gravier and Pascale Sébillot

PhD in progress: Petra Bosilj, Content based image indexing and retrieval using hierarchical image representations, started October 2012, Ewa Kijak and Sebastien Lefèvre (with OBELIX, IRISA team)

PhD in progress: Ricardo Carlini Sperandio, Unsupervised motif mining in multimedia time series, started August 2015, Laurent Amsaleg and Guillaume Gravier

PhD in progress: Ahmet Iscen, Continuous memories for representing sets of vectors and image collections, started September 2014, Hervé Jégou and Teddy Furon

PhD in progress: Grégoire Jadi, Opinion mining in multimedia data, started October 2014, Vincent Claveau, Béatrice Daille (LINA, Nantes) and Laura Monceaux (LINA, Nantes)

PhD in progress: Raheel Kareem Qader, Phonology modeling for emotional speech synthesis, started January 2014, Gwénolé Lecorvé and Pascale Sébillot (with EXPRESSION, IRISA Team)

PhD in progress: Cédric Maigrot, Detecting fake information on social networks, started October 2015, Laurent Amsaleg, Vincent Claveau and Ewa Kijak

PhD in progress: Vedran Vukotič, Deep neural architectures for automatic representation learning from multimedia multimodal data, started October 2014, Guillaume Gravier and Christian Raymond

9.2.3. Juries

Laurent Amsaleg

PhD, Herwig Lejsek, Reykjavík University

Teddy Furon

PhD, Wei Fan, University of Grenoble

Guillaume Gravier

HDR, reviewer, Slim ESSID, Telecom ParisTech

PhD, president, Grégor Dupuis, Université du Maine

Ewa Kijak

PhD, Cyrille Beaudry, Université de la Rochelle

Simon Malinowsky

PhD, Racha Khelif, Université de Franche-Comté

Pascale Sébillot

PhD, reviewer, Munshi Asadullah, Univ. Paris-Sud

PhD, reviewer, Sondes Bannour, Univ. Paris-Nord

PhD, president, Valéria Lelli Leitão Dantas, , Univ. Rennes 1

PhD, president, Bingqing Qu, Univ. Rennes 1

PhD, Mohamed Haykel Boukadida, Univ. Rennes 1

9.3. Popularization

Pascale Sébillot: Invited speaker (6h) Introduction to issues and solutions in NLP, URFIST Bretagne et Pays de la Loire seminar, June 2015.

MAGRIT Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events selection

9.1.1.1. Member of the conference program committees

- M.-O. Berger was member of program committee of the following conferences: International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2015) and of the International Symposium on mixed and augmented reality (ISMAR 2015).
- Erwan Kerrien was a member of the program committee of MICCAI 2015 and of IPCAI 2016.
- G. Simon was a member of the program committee of ISMAR 2015, of the ISMAR UrbanAR workshop and of the french conference on computer vision ORASIS 2015.
- P.-F. Villard was a member of the program committee of MICCAI 2015 and Eurographics Workshop on Visual Computing for Biology and Medicine 2015.

9.1.2. Journal

9.1.2.1. Reviewer - Reviewing activities

The members of the team reviewed articles for IEEE Transactions on Visualization and Computer Graphics, IEEE Transactions on Services Computing, SIAM Journal on Imaging Sciences, The Visual Computer, Experimental Mechanics, Traitement du Signal.

9.1.3. Invited talks

P.-F. Villard gave invited talks at:

- Markey Cancer Center and Radiology Department, September 18th, University of Kentucky
- Department of Mechanical Engineering and Department Of Biomedical Engineering (**program of the seminar**), William Maxwell Reed Seminar Series, September 18th, University of Kentucky.

9.1.4. Research administration

- Marie-Odile Berger is president of the Association française pour la reconnaissance et l'interprétation des formes (AFRIF).
- Marie-Odile Berger was a member of the jury d'admissibilité for chargé de recherche at Inria Nancy.
- Marie-Odile Berger was a member of the hiring committees for Professor position at Univ. Rouen.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

The four associate professors of the MAGRIT team actively teach at Université de Lorraine with an annual number of around 200 teaching hours in computer science, some of them being accomplished in the field of image processing. Inria researchers have punctual teaching activities in computer vision and shape recognition mainly in the computer science Master of Nancy and in several Engineering Schools near Nancy (ENSMN Nancy, SUPELEC Metz, ENSG). Our goal is to attract Master students with good skills in applied mathematics towards the field of computer vision. The list of courses given by staff members which are tightly related to image processing and computer vision is detailed below:

- Master: Signal analysis, 50 h, Université de Lorraine.
- Master: Augmented reality, 24 h, Télécom-Nancy, Université de Lorraine.

- Master: Introduction to computer vision, 12 h, Université de Lorraine.
- Master: Shape recognition, 15 h, Université de Lorraine.
- Master: Computer vision: foundations and applications, 15 h, Université de Lorraine.
- Master: Introduction to image processing, 21 h, École des Mines de Nancy
- Master: Image processing for Geosciences, ENSG, 12 h.
- Master : Introduction to signal processing and applications, 21 h, Ecole des Mines de Nancy
- Master: Augmented reality, 24 h, M2 IHM Metz
- Master: Augmented reality, 3 h, SUPELEC Metz.

9.2.2. Supervision

PhD defended in 2015: Nazim Haouchine, Modèles physiques pour la réalité augmentée des organes déformables, Marie-Odile Berger, Stéphane Cotin (MIMESIS).

PhD in progress: Pierre Rolin, Calcul de pose par simulation de points de vue pour la réalité augmentée, octobre 2013, Marie-Odile Berger, Frédéric Sur.

PhD in progress: Charlotte Delmas, Reconstruction 3D des outils chirurgicaux en radiologie interventionnelle, avril 2013, Marie-Odile Berger, Erwan Kerrien.

PhD in progress: Antoine Fond, Introduction de sémantique dans la modélisation urbaine dans un contexte de calcul du point de vue, octobre 2014, Marie-Odile Berger, Gilles Simon.

PhD in progress: Jaime Garcia Guevara, Vers une utilisation clinique de la réalité augmentée pour la chirurgie hépatique, novembre 2015, Marie-Odile Berger, Stéphane Cotin (MIMESIS).

PhD in progress: Raffaella Trivisonne, Image-guided real-time simulation using stochastic filtering. Novembre 2015, Erwan Kerrien, Stéphane Cotin (MIMESIS).

9.2.3. Juries

- Marie-Odile Berger was external reviewer of the PhD thesis of Z. Habibi and a member of the jury for the PhD thesis of F. Chadebecq.
- F. Sur was examiner for the PhD thesis of I. Rey-Otero.

9.3. Popularization

Members of the team participate on a regular basis, to scientific awareness and mediation actions.

- Gilles Simon attended a forum on digital technologies in Lorraine (GEN#3) and gave a talk about the role of augmented reality in the industry 4.0.
- Erwan Kerrien is Chargé de Mission for scientific mediation at Inria Nancy-Grand Est. As such, he is a member of the steering committee of "la Maison pour la Science de Lorraine"⁰, and member of the IREM⁰ steering council. He also serves as the academic referent of an IREM working group aiming at introducing computer science in secondary and high school curricula. Among other activities, he was also an associate researcher to a MATH.en.JEANS workshop.

⁰"Houses for Science" project, see <http://maisons-pour-la-science.org/en>

⁰Institut de Recherche sur l'Enseignement des Mathématiques - *Research Institute for Teaching Mathematics*

MORPHEO Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- Edmond Boyer was general chair for 3DV 2015.

10.1.1.2. Member of the organizing committees

- Franck Hétroy-Wheeler was publication chair for 3DV 2015.
- Jean-Sébastien Franco was tutorial chair for 3DV 2015.

10.1.2. Scientific events selection

10.1.2.1. Chair of conference program committees

- Edmond Boyer was area chair for BMVC 2015.
- Jean-Sébastien Franco was area chair for 3DV 2015.

10.1.2.2. Member of the conference program committees

- Stefanie Wuhrer was on the program committee for: Eurographics Short Papers 2015, Eurographics Workshop 3DOR 2015, SOCG Multimedia Exposition 2015.
- Lionel Reveret was on the program committee for: Symposium on Computer Animation 2015.

10.1.2.3. Reviewer

- Edmond Boyer has reviewed for: CVPR 2015, ICCV 2015, CVMP 2015, SIGGRAPH 2015, ORASIS 2015.
- Jean-Sébastien Franco has reviewed for: CVPR 2015, ICCV 2015.
- Franck Hétroy-Wheeler has reviewed for: 3DV 2015.
- Lionel Reveret has reviewed for: SIGGRAPH 2015, SIGGRAPH Asia 2015, Symposium on Computer Animation 2015, Motion in Game 2015, EUROGRAPHICS 2016.
- Stefanie Wuhrer has reviewed for: ICCV 2015, SIGGRAPH Asia 2015.
- Julien Pansiot has reviewed for: MobiHealth 2015, ICCV 2015.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- Edmond Boyer is associate editor of IJCV.

10.1.3.2. Reviewer - Reviewing activities

- Edmond Boyer has reviewed for: IJCV, IEEE Transactions on PAMI.
- Lionel Reveret has reviewed for: TOG, Computer and Graphics.
- Stefanie Wuhrer has reviewed for: Graphical Models, IEEE Transactions on Visualization and Computer Graphics, The Visual Computer.
- Julien Pansiot has reviewed for: Journal of 3D Research.

10.1.4. Scientific expertise

- Edmond Boyer was on the evaluation committees of: European Research Council (evaluation of consolidator ERC proposals), HCERES (evaluation of the LP2N lab at Bordeaux) and ANR (French academic projects).
- Edmond Boyer was on the recruitment committees for CR2 positions at the Inria Grenoble Rhône-Alpes.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Licence: J.S. Franco, Algorithmics, 60h, Ensimag 1st year, Grenoble INP

Licence: J.S. Franco, C Project, 30h, Ensimag 1st year, Grenoble INP

Master: J.S. Franco, End of study project (PFE) Project Tutoring, 18h, Ensimag 2nd year, Grenoble INP

Master: J.S. Franco, 3D Graphics, 50h, Ensimag 2nd year, Grenoble INP

Master: J.S. Franco, Modelisation et programmation C++, 9h, Ensimag 2nd year, Grenoble INP

Master: J.S. Franco, Introduction to Computer Vision, 27h, Ensimag 1st year, Grenoble INP

Master: J.S. Franco, co-responsability of the Graphics, Vision, Robotics specialty of the Mosig Masters program, Second year Masters, Grenoble INP, Université Joseph Fourier

Licence: F. Hétry-Wheeler, Algorithmics and programming, 45h, Ensimag dual education through apprenticeship 1st year, Grenoble INP

Master: F. Hétry-Wheeler, Algorithmics and Discrete Optimisation, 18h, Ensimag 2nd year, Grenoble INP

Master: Edmond Boyer, 3D Modeling, 9h, M2R GVR, Université Joseph Fourier Grenoble, France.

Master: Edmond Boyer, projet de programmation, 30h, M1 informatique - M1 MoSig, Université Joseph Fourier Grenoble, France.

Master: Edmond Boyer, Introduction to Image Analysis, 15h, M1 MoSig, Université Joseph Fourier Grenoble, France.

Master: J. Pansiot, Introduction to Computational Anatomy, 2h, Grenoble University Hospital.

Master: J. Pansiot, Introduction to Computer Vision, 27h, Ensimag 3rd year, Grenoble INP.

10.2.2. Supervision

HdR: Franck Hétry-Wheeler, Segmentation and skeleton methods for digital shape understanding, Université Grenoble Alpes, 20/11/2015.

PhD in progress : Benjamin Allain, Geometry and Appearance Analysis of Deformable 3D shapes, Université de Grenoble, started 01/10/2012, supervised by J.S. Franco and E. Boyer.

PhD in progress: Adnane Boukhayma, 4D model synthesis, Université de Grenoble, started 01/10/2013, supervised by Edmond Boyer.

PhD in progress: Georges Nader, Evaluation de la qualité perceptuelle de maillages dynamiques et ses applications, Université Claude Bernard - Lyon 1, started 01/10/2013, supervised by Florent Dupont, Kai Wang and Franck Hétry-Wheeler.

PhD in progress: Romain Rombourg, Digital tree: from the acquisition to a high-level geometric model, Université Grenoble Alpes, started 01/10/2015, supervised by Franck Hétry-Wheeler and Eric Casella.

PhD in progress : Vagia Tsiminaki, Appearance Modelling and Time Refinement in 3D Videos, Université de Grenoble, started 01/10/2012, supervised by J.S. Franco and E. Boyer.

PhD in progress: Li Wang, Transport optimal pour l'analyse de formes en mouvement, Université de Grenoble, started 01/10/2013, supervised by Edmond Boyer and Franck Hétry-Wheeler.

PhD in progress: Timo Bolkart, Statistical analysis of 3D human faces in motion, Saarland University, started 01/01/2012, supervised by Stefanie Wuhrer.

PhD in progress: Aurela Shehu, Geometric processing of near-isometrically deforming surfaces, Saarland University, started 01/04/2012, supervised by Stefanie Wuhrer.

PhD in progress : Jinlong Yang, Learning shape spaces of dressed 3D human models in motion, Université de Grenoble, started 01/10/2015, supervised by Franck Hétroy-Wheeler and Stefanie Wuhrer.

10.2.3. Juries

- Edmond Boyer was president of the Habilitation committee of Vincent Lepetit at Grenoble University.
- Jean-Sébastien Franco was examiner of the PhD thesis of Kun Liu (Université de Lorraine, Inria Nancy)
- Franck Hétroy-Wheeler is a member of the PhD monitoring committee of Van Tho Nguyen (University of Lorraine, INRA Nancy and Office National des Forêts).

10.3. Popularization

- Edmond Boyer gave invited talks at the ENS Cachan and at the Inria Paris, and the inaugural talk at the Kinovis platform inauguration.
- Franck Hétroy-Wheeler gave two talks on digital geometry to secondary school pupils and their families.
- Interactive Kinovis platform demonstration over 2 days for the "Fête de la Science" (within Morpheo: M. Heudre and J. Pansiot).

PERCEPTION Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. Scientific events selection

9.1.1.1. Chair of conference program committees

Radu Horaud was program co-chair of ACM ICMI'15, November 2015, Seattle WA, USA.

9.1.2. Journal

9.1.2.1. Member of the editorial boards

Radu Horaud is a member of the following editorial boards:

- advisory board member of the *International Journal of Robotics Research*, Sage,
- associate editor of the *International Journal of Computer Vision*, Kluwer, and
- area editor of *Computer Vision and Image Understanding*, Elsevier.

9.1.3. Invited talks

Radu Horaud gave an invited talk at the IEEE ICCV Worskhop on 3D Reconstruction and Understanding with Video and Sound, Santiago de Chile, Chile, 17 December 2015.

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

E-learning: MOOC on *Binaural Hearing for Robots*, May-June 2015, 5 hours over five weeks.
Teacher: Radu Horaud.

Tutorial: *Embodied Audition for Robots* at the European Signal Processing Conference (EUSIPCO), Nice, France, 31 August 2015, 3 hours. Teachers: Radu Horaud, Heinrich Loellmann (Friedrich Alexander Universitat Erlangen) and Christine Evers (Imperial College London).

9.2.2. Supervision

- PhD in progress: Israel Dejene Gebru, October 2013, Radu Horaud and Sileye Ba.
- PhD in progress: Dionyssos Kounades-Bastian, October 2013, Radu Horaud and Laurent Girin.
- PhD in progress: Vincent Drouard, October 2014, Radu Horaud and Sileye Ba.
- PhD in progress: Benoit Massé, October 2014, Radu Horaud and Sileye Ba.
- PhD in progress: Stéphane Lathuilière, October 2014, Radu Horaud.
- PhD in progress: Yutong Ban, October 2015, Radu Horaud.

PRIMA Project-Team

9. Dissemination

9.1. Promoting Scientific Activities

9.1.1. General chair, scientific chair

- Sabine Coquillart has served as general co-chair for IEEE VR 2015, Arles, France
- Sabine Coquillart will be general co-chair for IEEE VR 2016, Greenville, USA
- Sabine Coquillart chairs the steering committee for the EGVE Working Group EUROGRAPHICS Working group on Virtual Environments.

9.1.2. Member of the organizing committees

- Sabine Coquillart serves as member of the steering committee for the ICAT conference – International Conference on Artificial Reality and Telexistence.
- Sabine Coquillart has served as member of the steering committee for the 3DCVE Workshop on 3D Collaborative Virtual Environments in Arles, France, March 2015.
- Anne Spalanzani served on the organizing committee as Financial chair for IEEE ARSO 2015, Lyon, France

9.1.3. Chair of conference program committees

- James L. Crowley chaired the Best Paper award committee for ACM ICMI 2015

9.1.4. Member of the conference program committees

- Sabine Coquillart has served as a member of the program committee for GRAPP'2015 - International Conference on Computer Graphics Theory and Applications – Berlin, Germany, March 2015.
- Sabine Coquillart has served as a member of the program committee for VRST 2015 - 21st ACM Symposium on Virtual Reality Software and Technology, Beijing, China, Nov. 2015.
- Sabine Coquillart has served as a member of the program committee for ICAT-EGVE 2015 - 25th International Conference on Artificial Reality and Telexistence (ICAT 2015) and the 20th Eurographics Symposium on Virtual Environments (EGVE 2015) - Kyoto, Japan, 2015.
- James L. Crowley will serve on the program committee for Ubicomp 2016
- Dominique Vaufreydaz served on the program committee of the 10th IEEE International Workshop on Multimedia Technologies for E-Learning (MTEL2015).
- Dominique Vaufreydaz served on the program committee for the 7th international on Knowledge and Systems Engineering (KSE 2015)
- Dominique Vaufreydaz served on the program committee for UBICOMM2015

9.1.5. Reviewer for conferences

- James L. Crowley served as review for IEEE CVPR 2015
- James L. Crowley served as review for ICCV 2015
- James L. Crowley served as review for ACM ICMI 2015
- James L. Crowley served as review for IEEE ICRA 2015
- James L. Crowley served as review for AMI 2015
- James L. Crowley served as review for Interact 2015

- Dominique Vaufreydaz served as reviewer for International Journal On Advances in Internet Technology, v 8 n 3-4 2015
- Dominique Vaufreydaz served as reviewer pour IROS 2015
- Anne Spalanzani served as reviewer for IROS 2015,
- Anne Spalanzani served as reviewer for Social Robotics

9.1.6. Member of the editorial board of Journals

- Sabine Coquillart is a member of the Editorial Board of the Advances in Human-Computer Interaction
- Sabine Coquillart is a member of the Scientific Committee of the Journal of Virtual Reality and Broadcasting.
- Sabine Coquillart is a member of the Advisory/Editorial Board for the International Journal of Computer Graphics SERSC.
- Sabine Coquillart is a Member of the Editorial Board of Peer Computer Science open access Journal in Computer Science.
- Sabine Coquillart is a member of the Editorial board (computer Sciences) of the Scientific World Journal.
- Sabine Coquillart is Review Editor for the iFrontiers in Virtual Environments journal.
- Anne Spalanzani is a member of the editor for a special issue on Assistive and Rehabilitation Robotics of the Journal of Autonomous Robots

9.1.7. Reviewing activities for Journals

- James L. Crowley has reviewed papers for IEEE Pervasive
- Dominique Vaufreydaz served as reviewer for the journal Autonomous Robots
- Dominique Vaufreydaz served as reviewer for the journal Robotics and Autonomous Systems

9.1.8. Invited talks

- James L. Crowley, An Ecological Approach to Smart Home Systems, Joint CNRS-ALSTOM International Workshop: From Industry 4.0 to Smart cities, CNRS 1 rue Michel Ange, 26-27 Nov 2015.
- James L. Crowley, Context Aware Mobile Assistant, Smart City and Mobility Innovations, Organised by Inria in San Francisco, 11 May 2015

9.1.9. Leadership within the scientific community

- Sabine Coquillart is elected member of the EUROGRAPHICS Executive Committee.
- Sabine Coquillart is member of the EUROGRAPHICS Working Group and Workshop board.

9.1.10. Scientific expertise

- James L. Crowley served on the selection committee for Institut Université de France (IUF)
- James L. Crowley reviewed proposals for H2020 FET program and other H2020 PHC program
- Dominique Vaufreydaz served as evaluator pour l'ANR

9.1.11. Research administration

- James L. Crowley has been elected member of the Conseil d'Administration of the COMUE Université Grenoble Alpes
- James L. Crowley has been elected member of the Conseil du Laboratoire of the Laboratoire Informatique de Grenoble.

- James L. Crowley serves on the Administrative Office (Bureau) for the Laboratoire Informatique de Grenoble.
- James L. Crowley Serves on the Commission d’Habilitation de Dirigé la Recherche (HDR) for the Pole Informatics and Mathematics of the University Grenoble Alpes.
- James L. Crowley Serves on the Comité Scientific (COS) d’Inria Grenoble Rhone-Alpes Research Center
- James L. Crowley Serves on Steering Committee of the Inovallée TARMAC technology Incubator.
- James L. Crowley is director of the Amiqua4Home Equipment of Excellence (EquipEx).

9.2. Teaching - Supervision - Juries

9.2.1. Teaching

9.2.1.1. James Crowley

James Crowley is Director of the Master of Science in Informatics at Grenoble.

Master : Computer Vision, Course 24h EqTD, M2 year, Master of Science in Informatics at Grenoble,

Master : Intelligent Systems, Cours 54h EqTD, ENSIMAG.

9.2.1.2. Sabine Coquillart

- Master : Sabine Coquillart teaches a course on Virtual Reality and 3D User Interfaces for the GVR Master 2R, 2013-2014.
- Master : Sabine Coquillart teaches a one day course on 3D User Interfaces and Augmented Reality for the Numerical Modeling and Virtual Reality Master 2 in Laval, 2013-2014.

9.2.1.3. Thierry Fraichard

Master: Thierry Fraichard, Introduction to Perception and Robotics, 23h eqTD, M1 MOSIG, Univ. of Grenoble, France.

Master: Thierry Fraichard, Motion in Dynamic Workspaces, 2h eqTD, Computer Science Master, Bar Ilan Univ., Israel.

Co-responsibility of the Graphic, Vision and Robotics track of the international MOSIG Master programme.

9.2.1.4. Patrick Reignier

- Patrick Reignier has been elected member of the Conseil Academic du Pole Math-Stic of the Université Grenoble Alpes
- Patrick Reignier Supervises the industrial part of the “formation en apprentissage” of the ENSIMAG engineering school.
- Master: Patrick Reignier, Projet Genie Logiciel, 55h eqTD, M1, ENSIMAG/Grenoble INP, France.
- Master : Patrick Reignier, Developpement d’applications communicantes, 18h eqTD, M2, ENSIMAG/Grenoble - INP, France
- Master : Patrick Reignier, Introduction aux applications reparties, 18h eqTD, M2, ENSIMAG/Grenoble - INP, France
- Master: Patrick Reignier, Programmation Internet, 18h eqTD, M1, ENSIMAG/Grenoble INP, France
- Master : Patrick Reignier, Algorithmique, 50h eq TD, M1, ENSIMAG/Grenoble INP, France
- Licence: Patrick Reignier, Projet C, 20h eqTD, L3, ENSIMAG/Grenoble INP, France.

9.2.2. Supervision

9.2.2.1. PhD defended in 2015

- Varun Jain, Visual Perception of Emotions, Doctoral Thesis of the Université Grenoble-Alpes, defended 30 March 2015. Thesis director James L. Crowley
- Sergi Pujades-Rocamora, Modeles de cameras et algorithmes pour la creation de contenu video 3D, Doctoral Thesis of the Université Grenoble-Alpes, defended 14 October 2015. Thesis director Remi Ronfard (HDR) and Frederic Devernay
- Anne Spalanzani defended her HDR "Contribution à la navigation autonome en environnement dynamique et humain" in june 2015

9.2.2.2. *Current Doctoral Students*

- Etienne Balit, Multimodalite et interaction sociale, Doctoral student of University of Grenoble-Alpes, Started October 2013, Patrick Reignier (Professor), Dominique Vaufreydaz.
- Viet Cuong Ta, Multiple Users localization in public large-scale space, Doctoral student of University of Grenoble-Alpes, Started October 2013, Eric Castelli (HDR, Mica laboratory Hanoi, Vietnam), Dominique Vaufreydaz.
- Remi Paulin, Human-Robot Motion, University of Grenoble-Alpes, started in October 2013, Thierry Fraichard (HDR).
- Chen Jingtao, "Pseudo-haptic feedback without active haptic feedback devices", University of Grenoble-Alpes, Started in October 2014, co-directed by S. Coquillart
- Grégoire Nieto, « Lightfield Remote Vision », University of Grenoble-Alpes, Started in January 2015, co-directed by F. Devernay and J. L. Crowley
- Romain Bregier, « 3D Bin Picking », University of Grenoble-Alpes, CIFRE doctoral student with Siléane, Started in October 2014, Co-directed by F. Devernay and J.L. Crowley
- Alberto Quintero Delgado, University of Grenoble-Alpes, Started in October 2014, , directed by F. Devernay
- Julien Cumin, « Fouille de données de l’habitat connecté », University of Grenoble-Alpes, CIFRE doctoral student with Orange Labs, Started in October 2015, Directed by James L. Crowley.
- Sandra Nabil, « Video Panoramic 3D », University of Grenoble-Alpes, Started in October 2015, Co-directed by F. Devernay and J.L. Crowley

9.2.3. *Juries*

- James L Crowley served on the 2015 Selection committee for the IUF Senior awards.
- Dominique Vaufreydaz served on the recruiting juries for ATER and M&C for the Université de Grenoble Alpes.
- James L. Crowley served on the Doctoral Jury of Arsène FANSI TCHANGO, Doctoral thesis of the Univ of Nancy, defended 4 Dec 2015.
- Dominique Vaufreydaz served as examinateur on the thesis jury of Wafa Johal "Du Style pour des Robots Compagnons : Vers la Plasticité en Interaction Homme-Robot", on 30 Oct 2015

SIROCCO Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. Member of the organizing committees

- C. Guillemot has been area chair of Eusipco 2015 and IEEE-ICIP 2015, and award chair of IEEE-ICME 2015.
- A. Roumy is local liaison officer for Eurasip.

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

- C. Guillemot has been a member of technical program committees of international conferences: EUSIPCO 2015, IEEE-ICIP 2015.
- C. Labit is member of the GRETSI technical program committee.
- O. Le Meur has been a member of technical program committees of international conferences: IEEE-ICME 2015, QoMex 2015.
- O. Le Meur co-organized a special session on Visual attention modelling at EUSIPCO'2015.
- A. Roumy is member of the GRETSI technical program committee.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

- C. Guillemot is associate editor of the Eurasip International Journal on Image Communication.
- C. Guillemot is associate editor of the IEEE Trans. on Image Processing.
- C. Guillemot is associate editor of the International Journal on Mathematical Imaging and Vision.
- C. Guillemot is senior member of the editorial board of the IEEE Journal on selected topics in signal processing.
- O. Le Meur has been guest editor of the Special Issue on Recent Advances in Saliency Models, Applications and Evaluations, in Signal Processing: Image communication journal.
- A. Roumy is associate editor of the Hindawi Journal on Mathematical Problems in Engineering.

10.1.4. Invited talks

- C. Guillemot has been invited as member of a panel on computational imaging at IEEE-ICME 2015.
- O. Le Meur gave a seminar dealing with exemplar-based inpainting at INSA Rennes, June 2015.
- T. Maugey has been invited for a talk at INSA Rennes on "Interactive multi-view video coding", June 2015.
- T. Maugey has been invited for a talk at the GDR-Isis meeting on "Multi-view imaging from acquisition to rendering", June 2015.

10.1.5. Leadership within the scientific community

- C. Guillemot is member of the IEEE IVMSPP technical committee.
- A. Roumy has co-animated with F. Bimbot and N. Bertin (PANAMA team, IRISA) the workshop "Les défis de dimensionnalité soulevés par les nouvelles générations de capteurs audiovisuels", at the Data Science Symposium, IRISA, Nov. 2015.

10.1.6. Scientific expertise

- C. Guillemot is member of the Selection and Evaluation Committee of the “Pôle de Compétitivité” Images and Networks of the Region of Ouest of France (until June 2015).
- C. Guillemot is member as scientific expert of the CRRDT (Regional Committee of Research and Technological Development) of the Brittany region.
- C. Guillemot is member of the committee in charge of the IEEE Brillouin-Glavieux award.
- C. Labit is member of the ICT strategic steering committee (CPS-7) of the National Research Agency (ANR).
- A. Roumy is a member of the Selection and Evaluation Committee (CDT Commission Développement Technologique) for the Inria technological development grants.

10.1.7. Research administration

- C. Guillemot is, since Sept. 2015, vice-chair of Inria’s evaluation committee.
- C. Guillemot is member of the “bureau du Comité des Projets”.
- C. Labit is the Vice-president of the Scientific Board, in charge of Research and Innovation, for the University of Rennes1 (since June 1st, 2008).
- C. Labit is president of the Rennes-Atalante Science Park and of the start-up incubator Emergys (since April, 2007).
- A. Roumy is titular member of the National Council of Universities (CNU section 61, 2012-2015).

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Master: C. Guillemot, Image and video compression, 8 hours, M2 computer science, Univ. of Rennes 1, France.

Master: C. Guillemot, Image and video compression, 8 hours, M2 SISEA, Univ. of Rennes 1, France.

Master: O. Le Meur, Selective visual attention, 13 hours, M2, Univ. of Paris 8, France.

Master: O. Le Meur, Acquisition/Image Processing/Compression, 22 hours, M2 MITIC, Univ. of Rennes 1, France.

Master: T. Maugey, "Multi-view / 3D video coding", 2H, EPFL, Lausanne, Switzerland, March 2015.

Master: A. Roumy, Information Theory, 18 hours Master Computer science and telecommunications, Ecole Normale Supérieure de Rennes, Ker Lann campus, France.

Engineer degree: C. Guillemot, Video communication, 10 hours, Télécom Lille 1, Villeneuve-d’Ascq, France.

Engineer degree: C. Labit, Entrepreneurship and innovation, 3 hours, ESIR, Rennes, France.

Engineer degree: O. Le Meur, Image Processing, video analysis and compression, 54 hours, ESIR2, Univ. of Rennes 1, France.

Engineer degree: O. Le Meur, Visual communication, 65 hours, ESIR3, Univ. of Rennes 1, France.

Engineer degree: A. Roumy, Image processing, 14 hours, ECAM Rennes, France.

Professional training: O. Le Meur, Image Processing and OpenCV, 42 hours, Technicolor Rennes.

10.2.2. Supervision (PhDs defended during the year)

PhD : B. Huang, Second-order prediction and residue vector quantization for video compression, University of Rennes 1, defense on the 8th of July 2015, C. Guillemot (contract with Orange labs.)

PhD : J. Aghaei Mazaheri, Representations parcimonieuses et apprentissage de dictionnaires pour la compression et la classification d'images satellites, Univ. of Rennes 1, defense on the 20th of July 2015, C. Labit and C. Guillemot (contract with Astrium)

10.2.3. Juries

- C. Guillemot has been member (rapporteur) of the jury of the PhD committee of:
 - Y. Xing, Télécom ParisTech, Jan. 2015
 - M. Suryanarayana, MidSweden Univ., June 2015
 - M. Farajallah, Univ. Nantes, June 2015
 - M. S. Farid, Universita Degli Studi Di Torino, Sept. 2015
 - S. Karygianni, EPFL, Oct. 2015
- C. Guillemot has been member (president) of the jury of the PhD committee of:
 - M. Daisy, Univ. of Caen, Dec. 2015
 - A. Arrufat, INSA of Rennes, Dec. 2015
 - A. Basset, Univ. Rennes 1, Dec. 2015
- O. Le Meur has been member (rapporteur) of the jury of the PhD committee of:
 - S. Lemonnier, Univ. Paris VIII, November 2015
- O. Le Meur has been member (examiner) of the jury of the PhD committee of:
 - L. Yi, INSA of Rennes, March 2015
 - J. Liang, Univ. of Hong Kong, April 2015
 - N. Riche, Univ. of Mons, October 2015

STARS Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

François Brémond was organizer of a PANORAMA (see section 9.2.1.2) workshop, part of SPIE Electronic Imaging (EI) event (8-12 February 2015, San Francisco).

François Brémond was editor of a PANORAMA (see section 9.2.1.2) special issue of Journal of Electronic Imaging Letters (JEI): Ultra Wide Context and Content Aware Imaging.

10.1.1.2. Member of the organizing committee

François Brémond was a member of the Management Committee and COST Action IC1307 in 2015.

10.1.2. Scientific events selection

10.1.2.1. Member of the conference program committees

François Brémond was program committee member of the conferences and workshops: AAAI-15, GROW2015, ICDP2015, KSE 2015, PETS2015, PR4MCA and ICVS15.

François Brémond was publication chair and session chair of AVSS-15.

Jean-Paul Rigault is a member of the *Association Internationale pour les Technologies à Objets* (AITO) which organizes international conferences such as ECOOP.

10.1.2.2. Reviewer

François Brémond was reviewer for the conferences : CVPR2015-6, ECCV2015, VOT2015, Gretsi2015, ICIP2015, MSF2015, ChaLearn2015, ICCV2015, WACV 2016.

10.1.3. Journal

10.1.3.1. Member of the editorial boards

François Brémond was handling editor of the international journal "Machine Vision and Application".

10.1.3.2. Reviewer - Reviewing activities

François Brémond was reviewer for the journal *Frontiers in Human Neuroscience*.

10.1.4. Invited talks

François Brémond was invited to give a talk at Bristol University, SPHERE Seminar, 25 June 2015.

François Brémond was invited to give a tutorial at Leuven University at the 1st iV&L Net Training School, 3 June 2015.

François Brémond has participated to the Workshop Innovation Alzheimer, 12 November, 2015.

Antitza Dantcheva gave an invited talk at SBA, Vienna, Austria, July 2015.

Antitza Dantcheva gave an invited talk at the University of Cyprus, Nicosia, Cyprus, April 2015.

Antitza Dantcheva presented a demo at the Workshop Innovation Alzheimer (IA 2015), November 2015.

10.1.5. Scientific expertise

François Brémont was expert for EU European Reference Network for Critical Infrastructure Protection (ERNICIP) - Video Analytics and surveillance Group, at European Commission's Joint Research Centre in Brussels in 15 September 2015.

François Brémont was expert for the Foundation Médéric Alzheimer, for the doctoral fellowship selection, October 2015.

François Brémont was expert for the Sophia Labex Network, for the doctoral fellowship selection, October 2015.

François Brémont was expert for Inria Sophia Working Group, for Inria Team Proposals.

François Brémont was expert for reviewing Computer Science Discovery Grant application for the Natural Sciences and Engineering Research Council of Canada (NSERC).

François Brémont was expert for reviewing Consolidator Grant proposal for European Research Council (ERC).

François Brémont was expert for the Foundation Médéric Alzheimer, for the Alzheimer's Outlook, Paris, 11 December 2015.

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

Master : Annie Ressousche, Safety in Middleware for Internet of Things, 10h, niveau (M2), Polytech Nice School of Nice University.

Jean-Paul Rigault is Full Professor of Computer Science at Polytech'Nice (University of Nice): courses on C++ (beginners and advanced), C, System Programming, Software Modeling.

10.2.2. Supervision

PhD : Julien Badie, Optimizing process for tracking people in video-camera network, 17-11-2015, François Brémont.

PhD in progress : Auriane Gros, Evaluation and Specific Management of Emotionnal Disturbances with Activity Recognition Systems for Alzheimer patient, Sept 2014, François Brémont.

PhD in progress : Minh Khue Phan Tran, Man-machine interaction for older adults with dementia, May 2013, François Brémont.

PhD in progress : Michal Koperski, Detecting critical human activities using RGB/RGBD cameras in home environment, François Brémont.

PhD in progress : Thi Lan Anh Nguyen, Complex Activity Recognition from 3D sensors, Dec 2014, François Brémont.

PhD in progress : Ines Sarray, Activity Recognition System Design, Oct 2014, Sabine Moisan.

PhD in progress : Farood Negin, People detection for activity recognition using RGB-Depth sensors, Jan 2015, François Brémont.

10.2.3. Juries

François Brémont was jury member of the following PhD theses:

PhD, Dana Codreanu, Toulouse University, 21 May 2015.

PhD, Matthieu Rogez, Lyon University, LIRIS, Foxstream, 9 June 2015.

PhD, Cédric Le Barz, Pierre and Marie Curie University, Thales, 30 June 2015.

PhD, Owais Mehmood, School of centrale de Lille, IFSTTAR, 28th September 2015.

PhD, Geoffroy Cormier, Rennes University, ECAM Rennes Louis de Broglie, NeoTec-Vision, 10 Novembre 2014.

PhD Thi Khanh Hong Nguyen, Nice University - LEAT, 18 November 2015.

PhD Cyrille Beaudry, La Rochelle University, MIA, 26 November 2015.

PhD Arsène Fansi Tchango, Lorraine University, 4 December 2015.

PhD, Andrei Stoian, CNAM, Paris, 15 January 2016.

10.3. Popularization

François Brémond was invited to give a talk at Conférence des métiers at International Lycée (CIV) in Sophia 28 January 2015.

François Brémond was invited to give a talk at Nice University Conférence, La sSnté du Futur, 5 November 2015.

François Brémond was invited to give a talk at Aditel, Bank Forum, La Baule, Palais des congrès 1 and 2 October 2015.

François Brémond was interviewed by Industry Magazine, 1 October 2015.

WILLOW Project-Team

10. Dissemination

10.1. Promoting Scientific Activities

10.1.1. Scientific events organisation

10.1.1.1. General chair, scientific chair

- J. Sivic is a program co-chair of IEEE International Conference on Computer Vision (ICCV), 2015.

10.1.1.2. Member of the organizing committees

- Workshop co-organizer, THUMOS Challenge 2015: Action Recognition with a Large Number of Classes, in conjunction with CVPR'15, Boston, USA (Ivan Laptev).

10.1.2. Scientific events selection

10.1.2.1. Area chairs

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015 (I. Laptev, J. Ponce).
- International Conference on Computer Vision (ICCV), 2015 (I. Laptev).

10.1.2.2. Member of the conference program committee

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015 (R. Arandjelović, P. Bojanowski, M. Cho, J. Sivic).
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016 (R. Arandjelović, P. Bojanowski, G. Cheron, M. Cho, S. Kwak, J. Sivic).
- International Conference on Computer Vision (ICCV), 2015 (R. Arandjelović, P. Bojanowski, M. Cho, J. Sivic).
- ACM Multimedia 15 doctoral consortium (R. Arandjelović).
- 29th Conference on Artificial Intelligence (AAAI), 2015 (I. Laptev).
- International Conference on Learning Representations, 2015 (J. Sivic).

10.1.3. Journals

10.1.3.1. Member of the editorial board

- International Journal of Computer Vision (I. Laptev, J. Ponce, J. Sivic).
- IEEE Transactions on Pattern Analysis and Machine Intelligence (I. Laptev).
- Foundations and Trends in Computer Graphics and Vision (J. Ponce).
- Image and Vision Computing Journal (I. Laptev).
- I. Laptev and J. Sivic co-edit a special issue on "Video representations for visual recognition" in the International Journal of Computer Vision.
- J. Sivic co-edits a special issue on "Advances in Large-Scale Media Geo-Localization" in the International Journal of Computer Vision.

10.1.3.2. Reviewer

- International Journal of Computer Vision (M. Cho).
- IEEE Transactions on Pattern Analysis and Machine Intelligence (R. Arandjelović, P. Bojanowski, M. Cho, S. Kwak).
- IEEE Transactions on Circuits and Systems for Video Technology (P. Bojanowski, B. Ham).
- IEEE Transactions on Image Processing (B. Ham).

- IEEE Signal Processing Letters (B. Ham).
- Computer Vision and Image Understanding (M. Cho).
- Elsevier Neurocomputing (B. Ham).
- EURASIP Journal on Image and Video Processing (B. Ham).

10.1.4. Others

- J. Sivic is senior fellow of the Neural Computation and Adaptive Perception program of the Canadian Institute of Advanced Research
- R. Arandjelović obtained the Best reviewer award at International Conference on Computer Vision (ICCV), 2015

10.2. Teaching - Supervision - Juries

10.2.1. Teaching

- Master : J. Ponce, “Introduction to computer vision”, M1, Ecole normale supérieure, 36h.
- Master : I. Laptev, J. Ponce and J. Sivic (together with C. Schmid, Inria Grenoble), “Object recognition and computer vision”, M2, Ecole normale supérieure, and MVA, Ecole normale supérieure de Cachan, 36h.
- Master : I. Laptev, J. Ponce and J. Sivic (together with Z. Harchaoui and J. Mairal, Inria Grenoble and F. Bach), Cours PSL-ITI - Informatique, mathématiques appliquées pour le traitement du signal et l’imagerie, 20h.
- Doctorat : I. Laptev gave a tutorial at the 9th Russian Summer School in Information Retrieval (RuSSIR), St Peresburg, August 2015, 5h.

10.2.2. Supervision

PhD : Mathieu Aubry, “Visual recognition and retrieval of 3D objects and scenes”, graduated in 2015, J. Sivic and D. Cremers (TU Munich).

PhD : Vincent Delaitre, “Modeling and recognition of human-object interactions”, graduated in 2015, I. Laptev and J. Sivic.

PhD in progress : Gül Varol, “Deep learning methods for video interpretation”, starting in Oct 2015, I. Laptev, C. Schmid.

PhD in progress : Julia Peyre, “Learning to reason about scenes from images and language”, starting in Oct 2015, C. Schmid, I. Laptev, J. Sivic.

PhD in progress : Jean-Baptiste Alayrac, “Structured learning from video and natural language”, started in 2014, I. Laptev, J. Sivic and S. Lacoste-Julien.

PhD in progress : Piotr Bojanowski, “Learning to annotate dynamic video scenes”, started in 2012, I. Laptev, J. Ponce, C. Schmid and J. Sivic.

PhD in progress : Rafael Sampaio de Rezende, started in 2013, J.Ponce.

PhD in progress : Guilhem Chéron, “Structured modeling and recognition of human actions in video”, started in 2014, I. Laptev and C. Schmid.

PhD in progress : Théophile Dalens, “Learning to analyze and reconstruct architectural scenes”, starting in Jan 2015, M. Aubry and J. Sivic.

PhD in progress : Vadim Kantorov, “Large-scale video mining and recognition”, started in 2012, I. Laptev.

PhD in progress : Maxime Oquab, “Learning to annotate dynamic scenes with convolutional neural networks”, started in Jan 2014, L. Bottou (MSR), I. Laptev and J. Sivic.

PhD in progress : Guillaume Seguin, “Human action recognition using depth cues”, started in 2010, I. Laptev and J. Sivic.

PhD in progress : Matthew Trager, “Projective geometric models in vision”, started in 2014, J. Ponce and M. Hebert (CMU).

PhD in progress : Tuang Hung VU, “Learning functional description of dynamic scenes”, started in 2013, I. Laptev.

10.2.3. *Juries*

PhD thesis committee:

- Vincent Buso, Université Bordeaux I, France, 2015 (I. Laptev).
- Danila Potapov, Université Grenoble Alpes, France, 2015 (I. Laptev, rapporteur).
- Thomas Pfister, University of Oxford, UK, 2015, (I. Laptev, external examiner)
- Xi Chen, Aalto University, Finland, 2015 (I. Laptev, rapporteur).

Other:

Member of the PSL Research Council, 2012- (J. Ponce).

Member of Inria Commission de developpement technologique (CDT), 2012- (J. Sivic).

10.3. Invited presentations

- R. Arandjelović, Invited talk, DeepMind, London, United Kingdom, October 13, 2015
- M. Cho, Invited talk, Postech, Pohang, South Korea, November 30, 2015
- I. Laptev, Amazon, Seattle, USA, Nov, 2015.
- I. Laptev, Deep Video Workshop, Santa Cruz, USA, Nov, 2015.
- I. Laptev, EHES, Paris, France, Nov 16 - 18, 2015.
- I. Laptev, Keynote Speaker, NCCV, Sept. 14-15, Lunteren, The Netherlands, 2015.
- I. Laptev, Institute for Computer Graphics and Vision TU Graz, Austria, July, 2015.
- I. Laptev, DALI Workshop, La Palma, Spain, April 2015.
- I. Laptev, Bauman Moscow State Technical University, Moscow, Russia, April 2015.
- I. Laptev, CVPR’15 Area Chair Workshop, Boston, MA, USA, March 2015.
- I. Laptev, GDR-ISIS, Paris, France, March, 2015.
- I. Laptev, Deep Learning Summit, San Francisco, USA, Jan. 2015.
- J. Ponce, IAS Workshop on Functoriality in Geometric Data, Hong Kong, April 2015.
- J. Ponce, ORASIS Workshop, Amiens, June 2015.
- J. Ponce, Optimization in Machine learning, vision and image processing Workshop, Toulouse, October 2015.
- J. Ponce, SAMSUNG DMC, Seoul, Korea, October 2015.
- J. Ponce, 12th International Conference on Ubiquitous Robots and Ambient Intelligence, Goyang City, Korea, October 2015.
- J. Ponce, International Conference in Big Data and Information Analytics, Xi’an, China, October 2015.
- J. Ponce, Xi’an Jiaotong University, Xi’an, China, October 2015.
- J. Ponce, Software and Digital Humanities Workshop, Paris, November 2015.
- J. Ponce, Algorithms for Human-Robot Interaction, Berkeley, USA, November 2015.
- J. Ponce, Distinguished speaker, Faculty of Engineering, Hong Kong University, December 2015.
- J. Sivic, Invited talk, the CIFAR workshop, Montreal, December 2015.
- J. Sivic, Invited talk, the Workshop on Visual Place Recognition in Changing Environments, CVPR 2015.
- J. Sivic, Invited talk, the Aristote seminar on scientific computing for smart cities, 2015.
- J. Sivic, Invited talk, the High Visual Computing seminar, 2015.
- J. Sivic, Talk at Inria ComDir, 2015.