



RESEARCH CENTER

FIELD

Perception, Cognition and Interaction

Activity Report 2013

Section Popularization

Edition: 2015-04-10

DATA AND KNOWLEDGE REPRESENTATION AND PROCESSING

1. DAHU Project-Team	5
2. DREAM Project-Team (section vide)	6
3. EXMO Project-Team	7
4. GRAPHIK Project-Team	8
5. LINKS Team	9
6. MAGNET Team (section vide)	10
7. MAIA Project-Team	11
8. OAK Project-Team	12
9. ORPAILLEUR Project-Team (section vide)	13
10. SMIS Project-Team	14
11. TYREX Team	15
12. WIMMICS Project-Team	16
13. ZENITH Project-Team	17

INTERACTION AND VISUALIZATION

14. ALICE Project-Team	18
15. AVIZ Project-Team	19
16. HYBRID Project-Team	20
17. IMAGINE Project-Team (section vide)	21
18. IN-SITU Project-Team	22
19. MANAO Team	23
20. MAVERICK Project-Team (section vide)	24
21. MIMETIC Project-Team (section vide)	25
22. MINT Project-Team	26
23. POTIOC Team	27
24. REVES Project-Team	28
25. TITANE Team	30

LANGUAGE, SPEECH AND AUDIO

26. ALPAGE Project-Team	31
27. PANAMA Project-Team	32
28. PAROLE Project-Team	33
29. SÉMAGRAMME Project-Team	34

ROBOTICS

30. COPRIN Project-Team	35
31. IMARA Project-Team	36

ROBOTICS AND SMART ENVIRONMENTS

32. E-MOTION Project-Team (section vide)	37
33. FLOWERS Project-Team	38
34. LAGADIC Project-Team	39

VISION, PERCEPTION AND MULTIMEDIA INTERPRETATION

35. AYIN Team	40
---------------	----

36. LEAR Project-Team	41
37. MAGRIT Project-Team	42
38. MORPHEO Team (section vide)	43
39. PERCEPTION Team (section vide)	44
40. Prima Project-Team	45
41. SIROCCO Project-Team	46
42. STARS Project-Team	47
43. TEXMEX Project-Team	48
44. WILLOW Project-Team	49

DAHU Project-Team

7.3. Popularization

Serge Abiteboul participated to a popularization book on mathematics, « Mathématiques, l'explosion continue », with an article, Chercher sur le Web : juste un point fixe et quelques algorithmes.

Serge Abiteboul wrote with Pierre Senellart an article on “ Un déluge de données”, in Pour la science sur le Big bang numérique, 2013.

DREAM Project-Team (section vide)

EXMO Project-Team

8.3. Popularization

- Jérôme Euzenat gave a presentation on *Les données liées ouvertes (linked open data): publier des données réutilisables* at the open data days of the FREMIT Federation, IMT/IRIT, Toulouse (FR), 5/11/2013.
- Jérôme Euzenat coordinated the CNRS development days (JDEV) sessions on *web programming*, 4 presentations, 6 tutorials, 5 workshops, 80 participants, Palaiseau, 4-6/9/2013.

GRAPHIK Project-Team

9.3. Popularization

Patrice Buche was invited to give a talk about Packaging Decision support system involving flexible querying and argumentation at ANR Ribenut final meeting in November, 14 2013 (Avignon)

LINKS Team

8.3. Popularization

Within the Initiative ‘Chercheurs à l’École’ during the ‘Fête de la science 2013’ in October, Iovka Boneva has done presentations for high-school students in two lycées in Villeneuve d’Ascq and Marcq en Barœul.

MAGNET Team (section vide)

MAIA Project-Team

9.3. Popularization

- François Charpillat participated to the popularization of the robotic and Ambient Intelligence activity of the maia team :
 - <http://videotheque.inria.fr/videotheque/media/25615>
 - <http://videotheque.inria.fr/videotheque/doc/809>
 - <http://vimeo.com/78659657>
 - <http://vimeo.com/83727993>
- The popularization article by Alain Dutech, Bruno Scherrer and Christophe Thiéry on Reinforcement Learning for the game of Tetris, that was first published at Interstices, was revised and published at Images des Mathématiques [44].
- Vincent Thomas has organized, in collaboration with the "Bibliothèque Universitaire du Campus Lettres", an exposition "jeux: les ateliers de la pensée" where the main objective is to promote games as an interesting subject for academics. This exposition included two days of vulgarization seminars with specialists of several scientific fields (economy, psychology, computer science) and animations. See http://ticri.inpl-nancy.fr/wicri-lor.fr/index.php?title=Exposition_Jeu. The material of the exposition will be presented in several university libraries of the Université de Lorraine in the first half of 2014.
- Vincent Thomas participated in "Journée ISN-EPI" (Jun. 27 2013) whose audience is computer science teachers of secondary school by making a presentation on "games and artificial intelligence" and by organizing a workshop on the same subject. Vincent Thomas is participating in the LORIA IDEES group dedicated to teaching activities <http://idees.loria.fr/index.php?n=Main.ProgrammeJourneeISN-EPI>.
- Vincent Thomas participated in "Dans les coulisses d'un labo d'informatique" (Mar. 21 2013) by proposing an animation about "artificial intelligence and video games" for secondary school students <https://iww.inria.fr/NanSciNum/dans-les-coulisses-dinria-nancy-grand-est-2/>.
- Vincent Thomas and Olivier Buffet participated in "Fête de la Science" by organizing a workshop on board games and artificial intelligence (Oct. 10 and 12). See <https://iww.inria.fr/NanSciNum/un-ticet-pour-la-science/>.
- Nazim Fatès animated two debates following the presentation of the film *Codebreaker* which is a "biopic" dedicated to Alan Turing: in January, it was presented at the Lycée Jean-Moulin in Forbach; in November, it was presented in the main cinema of Saint-Dié-des-Vosges (organisation by "Festival du film de chercheur").
- Christine Bourjot, Alain Dutech and Nazim Fatès participated in a debate on artificial intelligence in the café "l'Irlandais" with a public mainly constituted of university students.

OAK Project-Team

8.3. Popularization

- T. Ghosh, I. Manolescu, A. Tzompanaki, A. Roatiş and S. Zampetakis have presented a graph-based game to the audience of *Fête de la Science* in October 2013.
- Still part of *Fête de la Science* 2013, I. Manolescu has participated to a “speed dating” event between researchers and high-school students in Paris.

ORPAILLEUR Project-Team (section vide)

SMIS Project-Team

9.3. Popularization

- "Comment préserver l'anonymat", Pour la Science, n° 433, novembre 2013.
- "Bases de données en Classe Préparatoire", séminaire à Luminy, mai 2013.
- Tutorial on experimental methodology at the BDA summer school 2014 "Masses de données distribuées".
- Participation to the "Futur en Seine" event in Paris: <http://web-tech.fr/linria-nous-devoile-ses-recherches-sur-les-smart-cities/>
- "Une nouvelle approche de la protection de nos données", My Science Work, July 8, 2013, by Abby Tabor <http://www.mysciencework.com/news/10335/une-nouvelle-approche-de-la-protection-de-nos-donnees>

TYREX Team

8.3. Popularization

J. Lemordant has participated in several events to popularize recent results in the areas of accessible pedestrian navigation, namely conferences at the Osaka City University.

J. Lemordant has participated in several events to popularize recent results in the areas of pedestrian navigation and mixed reality, namely the 6th European eAccessibility Forum and the State Of The Map 2013 conference.

P. Genevès has contributed to the creation of a video for disseminating the obtained research results. This video was displayed during the ceremony when he received the CNRS Bronze Medal. Intended for a very wide audience, it presents the societal challenges addressed, introduces the obtained research results and their applications.

J. Lemordant, T. Michel and M. Razafimahazo showcased indoor and outdoor navigation to Indian journalists (Education Times, Economic Times, Hindustan Times, The Hindu, NDTV) and have been interviewed by Monideepa Banerjee (NDTV). Grenoble, October 2013.

J. Lemordant, T. Michel and M. Razafimahazo have participated to [Experimenta 2013](#) to present their results on the 3D audio integrated in the first year VENTURI demonstrator. Grenoble, October 2013.

M. Razafimahazo has participated to [Museomix](#) and developed in 12 hours an iOS application called [Museomix#Gre](#) based on TYREX technologies for the Dauphinois Museum. It consists of an interactive map of the museum and visitors were able to understand the concept of virtual reality by being immersed in 5 different panoramas taken during the event. Grenoble, November 2013.

WIMMICS Project-Team

9.3. Popularization

Julien Cojan presented *DBpedia: Wikipédia pour les machines* at café-in seminar, Inria Sophia Antipolis, June 27,⁰

Fabien Gandon:

Le Web sémantique comment ça marche ?, Mines d'Alès, Nîmes, Communication science et société, February 12.

Web sémantique: ou comment se déploient sur le Web les données liées et la sémantique de leurs schémas, Total, February 27.

Le Web de Demain, médiation scientifique, Lycée Guillaume Apollinaire Nice, March 26.

Le Web Sémantique, interview Graphemeride, April 15.

Le Web sémantique, Sophia/Metropole Mag, June.

Web de données et Web sémantique, ressources ubiquitaires pour nos villes et territoires Innovative City Convention, June 18-19.

Web: terra incognita, Nuit des chercheurs, Alès, September 27.

Interview for the magazine *Documentaliste SI* Doc-SI n°3-2013 Webinaire *Roger Pédaque II*, October 10.

Maxime Lefrançois participated to the Science Festival - October 10th to 14th, 2012 - with the Association des Jeunes Chercheurs des Alpes Maritimes (AJC06). He conceived and animated scientific experiences on different energy sources.

We welcomed a scholar for a visit of one week, December 16-20.

⁰<https://project.inria.fr/mastic/cafe-in-27-juin-wikipedia-pour-les-machines/>

ZENITH Project-Team

9.3. Popularization

Zenith participated to the following events in France:

- “La fête de la science” (Montpellier), with the animation of a stand at Genopolys (a science village). We received 7 groups from Oct. 10 to Oct. 11, and then a wider audience on Oct. 12. With this stand, we have participated in the effort of relaunching LIRMM’s activities for this major event in science popularization.
- “Futur en Seine 2013” (Paris, <http://www.futur-en-seine.fr/fens2013/>) with the co-animation of the stand for the presentation of Interstices’ activities.
- annual seminar of the “mecsci” workgroup of Inria, Paris (CNAM) on January 30 and 31 [47].

F. Maseglia is a member of the editorial committee, and contributor, 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 given a 3 days training to elementary school teachers. This event, called “Graines de sciences” (Ecole de Physique des Houches, <http://www.fondation-lamap.org/fr/graines-de-sciences>) was funded by “La main à la pâte” (<http://www.fondation-lamap.org/>), a French foundation dedicated to science popularization based on manual activities. The goal, here, was to give a 3h training to groups of a dozen of teachers, by mainly using games and activities they would be able to transfer in their classrooms.

A. Joly presented the Pl@ntNet project and the resulting iPhone application in several events including the "Salon de l’agriculture 2013", "Les assises de la biodiversité", "Journée thématique du CNRS autour des usages mobiles de l’information scientifique dans l’Enseignement Supérieur et la Recherche", "Rencontres Agropolis", "journée des nouveaux arrivants de l’Inria", "journées INRA/Inria", etc. Many news media articles, blogs, TV news and twitts also reported on Pl@ntNet (typing "Pl@ntNet" on Google is the best way to get most of them). Finally a movie was realized in collaboration with Interstices (⁰).

⁰<http://videotheque.inria.fr/videotheque/media/browse/2>

ALICE Project-Team

7.3. Popularization

Sylvain Lefebvre is a member of the *commission de médiation scientifique* and of the *comité espace transfert*.

AVIZ Project-Team

9.3. Popularization

Samuel Huron: 9.3. News Paper and press cover : 04/2013, "Zeitgeist Borders shows a world of Google searches", NewScientist, Hal Hodson 11/2013, "Les flux de données visualisés en temps réel", La Recherche, Samuel Huron, Romain Vuillemot, Jean Daniel Fekete

HYBRID Project-Team

9.3. Popularization

- Massive media coverage of the results of OpenViBE2 project (section 8.2.5) : following a press conference and press release organized in January 2013. This ended up with numerous appearances in the media (TV, Press, Radio).
- "Journées Nationales d'Archéologie" 2013 : organization and numerous demos of immersive and VR results of our team in Immersia room, Rennes, June 2013 [33].
- "Festival de la Science" 2013 : booth and demo of the FLYVIZ system, in Betton, October 2013.
- "Nuit de la Science" 2013 : demos of FLYVIZ system and Corvette project, Rennes, October 2013.
- "Colloque Chimie et TIC 2013" : presentation "Interagir par la pensée avec les Interfaces Cerveau-Ordinateur" (A. Lécuyer), Maison de la Chimie, Paris, October 2013.
- "Journées Science et Musique" 2013 : organization of this event, and presentation of several demos of the team in Immersia room, Rennes, October 2013.

IMAGINE Project-Team (section vide)

IN-SITU Project-Team

9.3. Popularization

Wendy Mackay was interviewed for Inria/Technoscope: "L'interaction homme-machine en ligne de mire", February, 2013, and for an article in "Science & Vie" on the topic of Google Glass, November 12, 2013.

Wendy Mackay was interviewed on two *France Culture* radio shows: "Place de la Toile" on the topic of tomorrow's computers ("l'ordinateur de demain") on September 7, 2013 and on "Science Publique" on the topic of whether augmented reality will change our vision of the world ("La réalité augmentée va-t-elle changer notre vision du monde?") on November 1, 2013.

Wendy Mackay and Michel Beaudouin-Lafon were each interviewed as the scientist of the day ("savant du jour") on the *France Inter* radio show "On va tous y passer", on October 30 and November 20, 2013 respectively.

MANAO Team

8.3. Popularization

8.3.1. Exhibitions

Organization of the Inria's booth at Siggraph 2013, Anaheim, US.

Participation at the temporary exhibition "Eternal Egypt" at the Museum "Allard Pierson" in Amsterdam, The Netherlands, with the interactive spatial augmented reality setup "The Revealing Flashlight" [26].

Participation at the temporary exhibition "Du Nil à Alexandrie. Histoires d'eaux" at the Museum "Mariemont" near Bruxelles, Belgium with the 1/5 scale reproduced reassembled Isis statue within the ANR SeARCH project.

8.3.2. Tutorials and Workshops

Tutorial on the Eigen library at Cg-libs, Italian Eurographics chapter, June, Pisa, Italy.

Tutorial at Eurographics 2013, Girona, Spain

Tutorial at German Conference on Pattern Recognition 2013, Saarbrücken, Germany

Workshop at the Nodem 2013 conference: "Interactive exhibitions with 3D content: Virtual Museums - Workshop", December, Stockholm, Sweden.

8.3.3. Miscellaneous

Organization of Miniforum 3D - a meeting between students, researchers, and local industry

MAVERICK Project-Team (section vide)

MIMETIC Project-Team (section vide)

MINT Project-Team

8.3. Popularization

- “*Douglas Engelbart, inventeur et visionnaire*”, an article for the **Interstices** web site (J. Aceituno & N. Roussel, December 20th)
- **MIRIM**, an installation within Inria’s demonstration area at EuraTechnologies to illustrate the experimental nature of HCI research (M. Amberg, M-A. Dupré & N. Roussel, starting from October)
- **Interview** with Benoit Georges, from Les Echos, published as a supplement to his article on **novel interfaces for tablets, smartphones and computers** (N. Roussel, October 14th)
- *Chercheurs itinérants*: brief introduction to research topics for high-school students (J. Aceituno, L. Grisoni, L. Potier, H. Rateau, Y. Rekik & N. Roussel, October)
- Invited talk for a group of high-school teachers from Nice academy involved in the ISN (*informatique et sciences du numérique*) specialty (N. Roussel, June 4th)
- Co-organization of the press and VIP tour of the interactive exhibition of the ACM CHI conference in Paris (N. Roussel, April 29th)
- “*A propos de l’interaction homme-machine*”, a podcast for the **Interstices** web site (N. Roussel, April 26th)
- Invited talk as part of the launch of the 2013 “Questions numériques” publication by FING (N. Roussel, February 21st)

POTIOC Team

8.3. Popularization

The members of Potioc have published several popularization articles targeted to the general public:

- "Quand la réalité virtuelle rencontre les surfaces tactiles" (<http://interstices.info/toucheo>), Interstices [24] (M. Hachet)
- "Arrêtez de regarder la 3D, prenez-en le contrôle !" (<http://www.inriality.fr/informatique/interaction-homme-machine/3d/arretez-de-regarder-la/>), Inriality [23] (M. Hachet)
- "Grâce au numérique, on peut lire dans les pensées" (https://interstices.info/jcms/nn_73094/grace-au-numerique-on-peut-lire-dans-les-pensees), Interstices : Idée reçue [26] (F. Lotte)
- " Interaction Hommes-Machines : une histoire de 30 ans" (<http://www.inriality.fr/informatique/interface-homme-machine/inria/interaction-hommes-machines-une/>), Inriality [25] (M. Hachet)

They gave the following popularization talks:

- "L'activité cérébrale pilote directement l'ordinateur : présentation de l'interface cerveau-ordinateur (Brain-Computer interface)", conférence "Demain les objets sont connectés !", event "Semaine Digitale 2013" in Bordeaux (J. Frey)
- Talk introducing BCI and follow-up debate around augmented human, conférence "L'homme « augmenté » : notre avenir est-il « cyborg » ?", event "Nancy Renaissance 2013" in Nancy (J. Frey)
- "Utiliser son cerveau pour contrôler une machine", Cité des sciences, Paris (F. Lotte)
- "Le cerveau au commandes", conférence as part of the "Cervorama" exhibition, Cap-Sciences, Bordeaux (F. Lotte)
- "Interfaces Cerveau-Ordinateur et Homme Augmenté", conférence "Neurotechnologies: vers un homme augmenté?", Bordeaux (F. Lotte)

They also demonstrated their work to the general public during various events:

- Portes ouvertes Université Bordeaux1, démonstrations de PapARt (J. Laviolle)
- Cap Sciences - expo permanente, PapARt - development (J. Laviolle)
- Cap Sciences - Évènement IHM 2013, démonstration de PapARt (J. Laviolle)
- BCI demo for highschool students following "informatique et sciences du numérique" courses (J. Frey, A. Cellard, F. Lotte)
- BCI demo for the general public during "La nuit des chercheurs" in Talence (F. Lotte, A. Cellard)

Finally, they also participated to the following events

- Aquitec 2013, for promoting research jobs (J. Frey)
- Film-debate, "ExistenZ : faut-il avoir peur de la réalité virtuelle ?", University of Bordeaux 1 (J. Frey)
- Interview for a highschool class for their video project on science (A. Cellard)
- Participation to "visages des sciences 2013" (postcard and video interview) (A. Cellard)
- Interview (video and paper) for the SoNews online journal (local Inria Bordeaux newspaper) (A. Cellard)

REVES Project-Team

8.3. Popularization

8.3.1. Popularization, Invited Talks

- Adrien Bousseau presented the work on Coherent Intrinsic Images from Photo Collections (SIGGRAPH Asia 2012) in the Research Session of the FMX conference in Stuttgart.
- Adrien Bousseau presented the work on sketching tools for designers as a “Cafe’In” at the Inria Sophia Antipolis center and as an introduction to research for high school students from Nice (MathC2+) and Grasse. This work also appeared as an article on the Inria Sophia Antipolis website <http://www.inria.fr/centre/sophia/actualites/des-outils-informatiques-pour-les-artistes-et-les-createurs>
- Christian Richardt gave invited talks at UC Berkeley, Stanford, Nvidia Research (Santa Clara, California) and TU Berlin (Germany).

8.3.2. Demos

We gave demos (mainly of the immersive space) to high school students, representatives from the planned Museum of Cosquer in Marseille, Sup’Com Tunis, the companies Thales, Thales AleniaSpace and Optis.

8.3.3. Conferences and Invited Talks

- At SIGGRAPH 2013, Adrien Bousseau presented the work on Gloss Perception in Painterly and Cartoon Rendering [14]. Jorge Lopez Moreno also presented our work at the French chapter of SIGGRAPH in Paris. Our work also appeared on the Inria Sophia Antipolis website (<http://www.inria.fr/centre/sophia/actualites/siggraph-2013-trois-equipes-du-centre-present-leurs-travaux>).
- Adrien Bousseau and Emmanuel Iarussi attended the ACM CHI conference in Paris (May).
- Adrien Bousseau and Emmanuel Iarussi attended the ACM UIST conference in St Andrews (October) where Emmanuel Iarussi presented the paper on assisting drawing from photographs [19].
- Adrien Bousseau gave a talk on drawing tools for depicting stylized materials at the “Groupe de Travail sur le Rendu” in Paris <http://gtrendu.blogspot.fr/>.
- George Drettakis attended Eurographics 2013 in Girona Spain (May) and EGSR 2013 in Zaragoza Spain (June).
- Gaurav Chaurasia attended Eurographics Symposium on Rendering at Zaragoza (Spain) June 19-21, 2013.
- Gaurav Chaurasia presented the paper “Depth Synthesis and Local Warps for Plausible Image-based Navigation” at SIGGRAPH at Anaheim (CA, USA) between July 21-25, 2013.
- Gaurav Chaurasia gave an invited talk titled “Algorithms and Perception for Interactive Free-Viewpoint Image-Based Navigation” at Microsoft Research Redmond, USA on July 18, 2013. He was hosted by Dr. Eyal Ofek in the Xtreme Computing Group.
- Gaurav Chaurasia visited MIT CSAIL between Aug 1, 2013 and Sept 30, 2013. He was hosted by Prof. Fredo Durand computer graphics group.
- Stefan Popov presented his paper at Eurographics 2013 in Girona, Spain
- Stefan Popov attended the Eurographics Symposium on Rendering 2013 in Zaragoza, Spain
- Christian Richardt attended the Berkeley-Inria-Stanford workshop in Stanford to represent the CRISP associate team.
- Christian Richardt attended Eurographics 2013 in Girona, Spain.
- Christian Richardt attended CVPR 2013 in Portland, Oregon, to present the "Megastereo" paper.

- Christian Richardt attended SIGGRAPH 2013 in Anaheim, California, and co-presented a paper with Peter Vangorp (Perception of Perspective Distortions in IBR).
- Emmanuel Iarussi participated in the ACM CHI Conference on Human Factors in Computing Systems. Paris, France - 27 April, 2 May 2013, and in the ACM Symposium on User Interface Software and Technology (UIST), St Andrews, UK, October 8-11, 2013.
- Sylvain Duchêne attended Siggraph Conference 2013 in Anaheim, USA, 18 hours Inria class on Computational Geometry Learning from David Cohen-Steiner, and university english course LAN02.

TITANE Team

9.4. Popularization

Florent Lafarge gave talks to high school students on city modeling (Lycee Tocqueville, Lycee De La Montagne, and Stage MathC2+). He is a member of the editorial board of LISA (Inria SAM newsletter).

ALPAGE Project-Team

9.3. Popularization

- Benoît Sagot has given in December 2013 a tutorial about the MElt POS-tagger for approx. 20 linguists, as part of the activities of the Corpus Écrits consortium, which belongs to the TGIR Hum-Num.
- General NLP presentation at the ISN day (for Math teachers, computer science option, December 4th)
- Interventions at Digilinguo (organized by DGLFLF) on April 15th and June 5th, in particular for the promotion of Mgwiki
- Intervention at the Inria I-Match day, organized during the "Futur en Seine" event (June 14th)

PANAMA Project-Team

9.3. Popularization

9.3.1. *Journée science et musique*

Participants: Nancy Bertin, Frédéric Bimbot, Jules Espiau de Lamaestre, Rémi Gribonval, Corentin Guichaoua, Srđan Kitić, Stéphanie Lemaile, Pierre Machart, Laurent Simon, Nathan Souviraà-Labastie, Stefan Ziegler.

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 2013 hosted 350 visitors.

9.3.2. *Radio and press*

Nancy Bertin was an invited speaker in the France Inter scientific radio show "La Tête au Carré".

PAROLE Project-Team

9.3. Popularization

Demonstration (of audio processing and source separation) to high school students at Inria Nancy in March 2013 (E. Vincent).

Demonstration to students of Mines Nancy at Inria Nancy in December 2013 (S. Ouni).

Participation in the Renaissance festival in Nancy in June 2013 (E. Vincent, D. Fohr, Y. Salaün, Y. Laprie, J. di Martino) Demonstrations of automatic speech recognition, speech analysis, source separation, articulatory modeling and voice conversion were presented.

Participation in the 11th Rencontres européennes CNRS Jeunes “Sciences et Citoyens” in Pont-à-Mousson in November 2013 (E. Vincent).

Participation in the Forum Sciences Cognitives, presentation to students in Cognitive Sciences at the University of Lorraine, in November 2013 (S. Ouni) .

SÉMAGRAMME Project-Team

8.3. Popularization

- Maxime Amblard is member of editorial board of *interstices* (i), a french virtual revue of popularization for computer science : <http://interstices.info>.
- Maxime Amblard published an article which summarizes the main questions of natural language processing for (i) : https://interstices.info/jcms/ni_74169/real-humans-des-machines-qui-parlent-comme-des-hommes-ou-presque.
- Maxime Amblard was organizer of the exhibition *Proj'SC*, about master student's works for the University library, January 2013.

COPRIN Project-Team

9.3. Popularization

- A short breve entitled “How Much for My Ton of CO2 ?” coauthored by Mireille Bossy (Inria TOSCA) , Nadia Maizi (CMA ENSMP) and Odile Pourtallier was published on the daily blog of MPE2013 (Mathematics for Planet Earth 2013). <http://mpe2013.org/2013/07/04/how-much-for-my-ton-of-co2/>
- we extensively us the MARIONET-SCHOOL robots for pedagogy and teaching at all level [13]. It has been exhibited at the BAUMA fair (Munich) by german colleagues, at INNOROBO (Lyon), at the JNRR (Annecy) and during the APMEP (association of mathematics professors) workshop (Marseille)
- 95

IMARA Project-Team

9.3. Popularization

Several members of the team have participated in the exhibition Futur-en-Seine (104, Paris, June 13-16 2013) by presenting the CITRIS association and explaining videos to industry (June 13-14) and public (June 15-16).

Guillaume Tréhard supervised three students from the Lycée Henri Bergson, Angers for their TIPE (TIPE, travaux d'initiative personnelle encadrés) "Assistance au freinage d'urgence par contrôle moteur d'un véhicule électrique".

Jean-Marc Lasgouttes has presented "some solvable models for road traffic" at the *demi-heure de science* of the Paris–Rocquencourt Inria research center.

E-MOTION Project-Team (section vide)

FLOWERS Project-Team

LAGADIC Project-Team

9.3. 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, the navigation of a mobile robot in urban environments, vision-based detection and tracking for space navigation in a rendezvous context, the semi-autonomous navigation of a wheelchair, and augmented reality applications.
- Fabien Spindler is a member of the editorial board of “Ouest Inria”, the internal journal at Inria Rennes-Bretagne Atlantique.
- Alexandre Krupa co-authored an article titled “Au coeur des hommes” in the journal DocSciences that is intended for general public. This article is about medical robotics guided from images [27]. An article entitled “L’asservissement visuel au service de la robotique médicale” has also been published in May 2013 in the “Emergences” general-public magazine of Inria Rennes-Bretagne Atlantique <http://emergences.inria.fr/lettres2013/newslettern26/126asservissementvisuel>.
- Paolo Robuffo Giordano participated to the “Café des sciences Drones” at the “Espace des sciences” in Rennes in November 2013 to illustrate his activities on quadrotor UAVs to the general public.
- Marie Babel and François Chaumette participated to the “Science Festival” in October 2013 with a debate after the projection of the film “Vivre avec des robots” in Brécé near Rennes.
- Marie Babel and François Pasteau gave a 1-hour lecture on "Assistance to the mobility: the place of the robotics" on December 13th, during the “Conf”Lunch” monthly seminar organised by Inria in Rennes. Furthermore, two articles related to wheelchair navigation have been published in general-public magazines, namely “Des yeux pour les fauteuils roulants” in “Emergences” in July 2013(http://emergences.inria.fr/lettres2013/newsletter_n27/L27-FAUTEUIL) and “Un fauteuil qui a les yeux en face des roues” in “Sciences Ouest” (the magazine of the “Espace des sciences” in Rennes) in November 2013 (<http://www.espace-sciences.org/sciences-ouest/314/actualite/un-fauteuil-qui-a-les-yeux-en-face-des-roues>).

AYIN Team

9.3. Popularization

- Paula Craciun and Josiane Zerubia have published an article in ERCIM News'95 [19]. They have also written a blog article for MPT2013 in French [<http://mpt2013.fr/les-ports-vus-du-ciel/>] and MPE2013 in English [<http://mpe2013.org/2013/10/29/boat-extraction-in-harbors-from-high-resolution-satellite-images/>].
- Yuliya Tarabalka gave an interview to the LISA journal in January 2013 [<https://lisa.sophia.inria.fr/yuliya-tarabalka-888.html>]. She participated in the conference of the Young Academy of Science in Ukraine, presenting the Ayin team and her research work to the 12-16 year-old attendees of the Academy.
- Yuliya Tarabalka and Guillaume Charpiat (STARS EPI) published an article in the Earthzine journal "Exploiting Temporal Coherence for Fire Mapping from MODIS Spaceborne Observations" in September 2013 [20].
- Josiane Zerubia took part in a debate on the topic "Les TIC, une révolution pour les femmes?" organized at the SKEMA Business School in Sophia-Antipolis by three associations (Femmes & Sciences, Femmes 3000 and Telecom Valley) on November 26, 2013 (for more detail see <http://www.femmesetsciences.fr/actualites/les-tic-une-revolution-pour-les-femmes-conference-debat-261113-sophia-antipolis/>)

LEAR Project-Team

9.4. Popularization

- C. Schmid presented the research area of visual recognition to a group of high-school teachers, Inria Grenoble, March 2013.
- A. Gaidon, Z. Harchaoui and C. Schmid published an article about activity recognition in videos in ERCIM-news 95 (October 2013).

MAGRIT Project-Team

9.3. Popularization

Members of the team participate on a regular basis, to scientific awareness and mediation actions:

- Erwan Kerrien heads the local Scientific Mediation Committee. Among other activities, he was invited to last Didapro5-DidaSTIC conference (didactics of computer science) as a panelist and was an associate researcher to a MATH.en.JEANS workshop.
- Pierre-Frédéric Villard participated to various activities in the IUT of Saint-Dié des Vosges: open days, science festival, science café, Film screening following by a debate and computer science presentations to schoolgirls to promote science.
- In an exploratory experiment conducted in collaboration with the IUFM de Lorraine (teacher training institute), we investigated the use, the usefulness and the impact of an innovative Augmented Reality Environment for teaching/learning astronomy at primary school [15]. An AR learning environment has been designed whose aim is to show augmented views of some celestial bodies and support the pupils' investigations using spatial visual guides and views from a terrestrial observer. Each child was asked to solve problems related to astronomy in two different conditions in which they had to use and manipulate: (1) the traditional learning environment (i.e., with physical models), or (2) the Augmented Reality environment. Preliminary results show that the declarative knowledge related to astronomy was higher with the AR Environment. Only AR users have developed scientific conceptions of the explored astronomical phenomena and learnings have been significantly improved. Furthermore, we presented some arguments in order to support the assumption that the AR model assists the process of scaffolding, promotes collaborative learning by reducing cognitive load, and takes part to the motivation dynamic by enhancing task controllability.
- We have designed and developed a software whose aim is to support students with learning computer programming. This software, named artEoz, enables a pedagogical view of the computer memory, dynamically changing while the user program is running [26]. Using a nice visualization helps to understand the behavior on an object oriented program. This software concerns beginners as well experimented students thanks to its facilities to draw complex data structures. artEoz can be freely downloaded for academic use only from <http://arteoz.loria.fr>. This software is licensed by the APP (French agency for software protection).

MORPHEO Team (section vide)

PERCEPTION Team (section vide)

Prima Project-Team

8.4. Popularization

- Thierry Fraichard gave three lectures on Robotics to highschool students and teachers in the scope of the “Informatique au lycée” initiative, April and May 2013.
- Dominique Vaufreydaz gave two lectures on perception and companion robot to highschool students and teachers in the scope of the “Informatique au lycée” initiative, April and May 2013.
- Dominique Vaufreydaz gave seminars entitled “Perception, reconnaissance d’activités et robots compagnons.”, Fêtes de la Science, at Inria Grenoble, Monbonnot, October 2013.
- The first version of the AppsGate integration platform was demonstrated to the public as part of the Experimenta Fair⁰ in Grenoble, from 10 to 13 of October 2013.

⁰<http://www.echosciences-grenoble.fr/sites/experimenta>

SIROCCO Project-Team

9.4. Popularization

- L. Guillo is advisor of secondary school pupils following the course "Informatique et Science du Numérique (ISN)" of the Lycée Jean Macé in Rennes, France.

STARS Project-Team

9.3. Popularization

- François Brémond participated in ERCIM News 95, Special theme: "Image Understanding", Sept 2013;
- François Brémond was interviewed by magazine 01net/itv Jul 2013;
- François Brémond was interviewed on Autisme by Monaco Info TV, September 2013;
- François Brémond gave a talk at Forum de la Recherche, Nice, 22 November 2013;
- Guillaume Charpiat is part of the MASTIC committee;
- Guillaume Charpiat wrote with Yuliya Tarabalka a popularization article about wild fire mapping from satellite images in the magazine Earthzine : <http://www.earthzine.org/2013/09/16/exploiting-temporal-coherence-for-fire-mapping-from-modis-spaceborne-observations/> [53].

TEXMEX Project-Team

9.3. Popularization

- Guillaume Gravier, Patrick Gros and Hervé Jégou: Invited talks at INA, January 2013
- Guillaume Gravier: Invited speaker at Séminaire Délégation Générale pour l'Armement, Paris
- Guillaume Gravier: Invited talk at PUC Minas, Brazil, April 2013
- Guillaume Gravier: Seminar on Speech and Audio Processing, M. Sc. Students, INSA Rennes, France
- Patrick Gros and Pascale Sébillot: Invited speakers at the workshop on Big Data, ENSAI, Rennes, France, November 2013.
- Guillaume Gravier: Invited speaker at Colloquium Rennais des Sciences du numérique, Rennes
- Hervé Jégou: Invited talk at Universita Autonoma de Barcelona, January 2013
- Hervé Jégou: Invited talk at University of Caen, January 2013
- Hervé Jégou: Invited talk at Oxford University, Visual Geometry Group, UK, November 2013

WILLOW Project-Team

9.5. Popularization

- J. Ponce participated in the iMatch meeting at Futur en Seine, June 2013
- J. Sivic participated in the CityLabs@Inria presentation at Futur en Seine, June 2013