



RESEARCH CENTER

FIELD

Activity Report 2014

Section Popularization

Edition: 2015-03-26

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ALF Project-Team (section vide)

ANTIQUE Team

9.3. Popularization

Mehdi Bouaziz gave a course on “Apprendre et enseignement — la programmation informatique des bibliothèques”, Maire de Paris, 12 hours, june-july 2014. Xavier Rival gave a talk on “Safety critical embedded softwares and their verification” at the Ceremony for the “Médailles of Engeniering Sciences” in April 2014. Xavier Rival participated to the organization of the “Nuit des Sciences” in June 2014.

AOSTE Project-Team (section vide)

ARIC Project-Team

9.4. Popularization

- Sylvie Boldo (Proval project) and Jean-Michel Muller wrote a popular science paper *Des ordinateurs capables de calculer plus juste* in the journal *La Recherche* [36].
- Nicolas Brisebarre co-organizes scientific conferences, called «Éclats de sciences», at Maison du Livre, de l'Image et du Son in Villeurbanne. Around three conferences take place per year.
- Nathalie Revol gave talks for pupils at collèges and lycées, as an incentive to choose scientific careers: lycée Camille Vernet (Valence, Drôme), lycée Jérémie de la Ville (Charlieu, Loire), lycée Gabriel Fauré (Annecy, Haute-Savoie), collège Jean Renoir (Neuville-sur-Saône, Rhône). During the “Week of mathematics”, she gave a 2-hour talk at lycée de la Côtière (La Boisse, Ain). She gave the inaugural conference of the congress “Math en Jean’s” in Lyon and the conference for the scientific camp “Math C2+” in Montbonnot. She was present for the “Mondial des Métiers” (Eurexpo Lyon, Chassieu, Rhône). For the Science Fair, she gave 2 talks at MMI, ENS de Lyon. In 2014, she met over 1000 pupils.

ATEAMS Project-Team

8.3. Popularization

Paul Klint:

- De Softwarerevolutie, Valedictory lecture.
- Nemo, Hoe ontstond de eerste computer?
- Nemo/Klokhuis, Hoe ontstond de eerste computer?
- BYOM: Bring Your Own Metrics (EQUA Symposium).
- The Revenge of the Coroutines (SEN Symposium).

Tijs van der Storm:

- Who's afraid of Object Algebras?, Joy of Coding 2014.
- Hack your DSL with Rascal, CodeGeneration 2014.
- The Rascal Language Workbench, NSPyre, 2014.
- I am plain text, – resistance is futile, Sioux, 2014.
- Rascal: functional programming for source code analysis and transformation, guest lecture at Hogeschool van Arnhem en Nijmegen (HAN).

Jurgen Vinju:

- De allereerste computerprogrammeur Ada Lovelace (1815 - 1852), Kennis van NU (radio appearance).
- Complexe Software, Eindhovens Dagblad.
- De eerste programmeur, VPRO Gids.

Jan van Eijck is member of the Advisory Board ('Raad van Advies') of the Artificial Intelligence Curriculum, University of Groningen (since Summer 2013). Paul Klint acts as treasurer of the EAPLS and was directory of the Master Software Engineering at Universiteit van Amsterdam (UvA) until September 1, 2014. He is also board member of the Instituut voor Programmatuur en Algoritmiek (IPA). Tijs van der Storm is head of the internship committee at CWI, co-organizer of the CWI Scientific Meeting and secretary of the CWI works council.

CAIRN Project-Team (section vide)

CAMUS Team

9.3. Popularization

Cédric Bastoul participated to the event *Kids University* at the University of Strasbourg in November 2014

Cédric Bastoul prepared activities for *Fête de la Science* at University of Paris-Sud in October 2014

CAMEL Project-Team

9.3. Popularization

- Jérémie Detrey gave a presentation on the Enigma machine and its cryptanalysis to high-school teachers as part as the “journée EPI-Isn”, where Paul Zimmermann gave a presentation of the Sage computer algebra system.
- Paul Zimmermann animated a “Maths-en-Jeans” group with students from the “collège” Pierre Brossolette in Réhon.
- Pierrick Gaudry gave a presentation at the “journée de l’Association francophone des spécialistes de l’investigation numérique”.
- Marion Videau
 - participated to events on information about university studies for pupils and students (Cap sur l’enseignement supérieur, Portes ouvertes de la faculté des sciences, Oriaction), and about university studies and research to the general public (Sciences en marche),
 - gave a presentation at the “journée de l’Association francophone des spécialistes de l’investigation numérique”.

CARTE Project-Team

8.3. Popularization

Isabelle Gnaedig is member of the scientific vulgarization committee of Inria Nancy - Grand Est. This committee is a choice and guidance instance helping the direction of the center and the person in charge of popularization events to elaborate a strategy, to realize events and to help researchers to get involved in various actions aiming at popularizing our research themes, and more generally computer science and mathematics.

CASCADE Project-Team (section vide)

CASSIS Project-Team

9.3. Popularization

Presentation of security protocols to high school teachers in Computer Science (April 17th, 2014, Véronique Cortier).

CELTIQUE Project-Team

7.3. Popularization

- Talk “Bug, Virus, Intrusion, Pirates... So many threats and no defense? Yes... maths.”, Thomas Genet, for high school teachers, ENS Rennes, Oct. 2014.

COMETE Project-Team

8.3. Popularization

Catuscia Palamidessi has organized the round table “Security & Privacy : challenges of the future digital society” at the **Forum STIC**, University of Paris-Saclay, December 2014.

Konstantinos Chatzikokolakis has been one of the speakers at the above round table.

Konstantinos Chatzikokolakis has given the popularization talk “Protection de la vie privée et anonymat” at the **Journée ISN**, Académie de Créteil, March 2014.

COMPSYS Project-Team

9.3. Popularization

- Alain Darté was invited to give a long keynote (1h30), as an introduction to polyhedral techniques (“Polyhedral optimizations? Not even scared!” [2]), to the Spanish Conference Jornadas Sarteco, the equivalent of the French COMPAS conference, see <http://www.jornadassarteco.org/transparencias-de-las-charlas-invitas/>.
- In Sep. 2014, together with ten other specialists in automatic parallelization, Paul Feautrier recorded a lecture on the “polyhedral model” for a video course on automatic parallelization to be published by the IEEE.
- Paul Feautrier’s 1988 “Array Expansion” seminal paper has been selected for the 25th Anniversary Volume of the ACM International Conference on Supercomputing, with 34 other papers, among 1800 papers published from 1987 to 2011. A short “reminescence” paper [13] has been written for the occasion. <http://dl.acm.org/citation.cfm?doid=2591635.2591641>.
- Alain Darté participated to the “Refresh” Inria Rhône-Alpes initiative, for improving the scientific life of the Inria regional center, as well as to the working group on “team management”.

CONVECS Project-Team

9.3. Popularization

H. Garavel participates to the committee in charge of organizing the Aerospace Valley series of industrial conferences on formal methods. The third conference ⁰, devoted to theorem proving, held on February 4 in Toulouse and retransmitted by video-conference in Grenoble, attracted over 100 participants from industry and academia.

The fourth conference ⁰, devoted to model checking, held on October 16 in Toulouse and retransmitted by video-conference in Grenoble and Saclay, attracted over 120 participants from industry and academia. H. Garavel gave a talk entitled “*Présentation de l’outil CADP*”. A. Kriouile gave a talk entitled “*Application de CADP à la vérification de matériel*”. R. Mateescu gave a talk entitled “*Introduction au model checking*”.

⁰<http://www.inria.fr/centre/grenoble/agenda/forum-methodes-formelles2>

⁰<http://projects.laas.fr/IFSE/FMF/J4/index.html>

CRYPT Team

6.3. Popularization

Phong Nguyen gave several invited talks:

- [17] at the First NTU-VIASM Workshop on Discrete Mathematics, in Vietnam.
- at the 2014 CTIC-IIS Theory of Cryptography workshop, in China.
- at the Mathematical Workshop of the Chinese Association for Cryptologic Research, in China.

DEDUCTEAM Exploratory Action

8.3. Popularization

Gilles Dowek is the president of the scientific board of the “Société Informatique de France” (SIF).

Gilles Dowek is a member of the scientific board of “La Main à la Pâte”.

Raphaël Cauderlier, Simon Cruanes, Pierre Halmagrand et Ronan Saillard ont participé à l’animation du stand Inria au Salon Culture et Jeux Mathématiques les 24 et 25 mai

Ali Asaf, Raphaël Cauderlier, Simon Cruanes et Pierre Halmagrand ont participé à l’animation du stand Inria lors de la Fête de la Science les 9 et 10 octobre 2014 à Paris

Gilles Dowek has given a talk at Mathenjeans.

Alejandro Díaz-Caro is member of the scientific board of “Ensemble”, a journal of the Maison Argentina at Cité Universitaire in Paris, ISSN 1852–5911.

DICE Team

8.3. Popularization

- Stéphane Frénot and Stéphane Grumbach have been invited speakers to the BlendWebMix conference in Lyon end of October. This event of two days unites actors from different fields in the web domain, i.e. programmers, entrepreneurs, designers and scientists. Two contributions have been programmed for DICE to speak about digital and geographical territories, and about big data and intermediation platforms.
- The annual German-speaking conference DNP14 in Vienna (Austria) is a two-day event to discuss topics related to data, networks and politics and has taken place this year in September. Robert Riemann was giving a talk to introduce the concept of the C3PO project and illustrate its possibilities of application.
- Metroscope aims at being a leading Internet Observatory. It holds an annual workshop. Aurélien Faravelon presented DICE's works on intermediation at the 2014 edition.
- Séminaire Pint Of Science, Lyon, Google, Twitter, BitTorrent et BitCoin : les données, objets de toutes les convoitises <http://www.pintofscience.fr/#!lyon/ci18>, 21 Mai 2014
- Rencontres CNRS Journées citoyen CNRS, poitiers, invitation to a seminar at school about Big Data, 17-19 Oct 2014, <http://www.cnrs.fr/sciencesetcitoyens/>
- Panel Big Data, Open Data : enjeux démocratiques, colloque Le monde après Snowden, Assemblée nationale, Paris, 13-14 mars 2014
- La France dans le paysage mondial de l'intermédiation, Audition publique au Sénat, Mission commune d'information "Nouveau rôle et nouvelle stratégie pour l'Union européenne dans la gouvernance mondiale de l'Internet", Paris, 11 Febr 2014
- Les enjeux du numérique présentés aux députés, avec la délégation Inria, et le groupe d'études Internet et société numérique de l'Assemblée nationale, Paris, 21 janvier 2014

DREAMPAL Team

8.3. Popularization

Philippe Marquet is vice-president of the *Société informatique de France*, the French learned society in computer science.

Philippe Marquet is involved in scientific popularization and co-animates the group of people interested in science popularization within the Inria Lille - Nord Europe Research Center. He is also a member of the group for networking about computer science popularization inside Inria.

He organizes and participates to the visit of classrooms on the Inria Plateau at EuraTechnologies, promoting interactions between the scientific community and secondary school students and their teachers. He organizes and/or animates events with children and/or adults in order to initiate them to code via Scratch or to computer science via unplugged activities (Poitiers, February 2014; Paris, October 2014; Inria Lille, December 2014).

Philippe Marquet is a member of the editorial board of 1024, the new bulletin of the *Société informatique de France* that aims at showing informatics, science and technology, in all its dimensions. 1024 targets a wide audience, from high school students to researcher, including anyone interested in computer science.

Hana Krichene participated in a contest "my thesis in 180 seconds", March 2014 - University Lille 1. The aim of the competition is to present the PhD student researches in simple terms in 3 minutes, with a clear, concise and convincing presentation to a diverse audience.

ESTASYS Exploratory Action (section vide)

GALAAD2 Team (section vide)

GALLIUM Project-Team

9.3. Popularization

Jacques-Henri Jourdan is involved in the organization of the Junior Seminar of Inria Paris-Rocquencourt.

Jacques-Henri Jourdan manned a stand at “Salon Culture & Jeux Mathématiques”, in Paris.

Since 2012, the Gallium team publishes a research blog at <http://gallium.inria.fr/blog/>, edited by Gabriel Scherer. This blog continued its activity in 2014, with 23 posts from 5 different authors.

GCG Team (section vide)

GEOMETRICA Project-Team

9.3. Popularization

Thomas Bonis and Mathieu Carrière presented the *Photomaton 3d* at the *Fête de la Science* in October 2014. This animation consists in scanning a volunteering person in 3d using a Kinect and dedicated software, then illustrating the concepts of 3d shape comparison, retrieval and matching.

GRACE Project-Team

9.4. Popularization

- D. Augot made a presentation “Quand $1 \oplus 1 \text{ égal } 0$ ” at Lycée Albert Einstein, Sainte-Geneviève-des-Bois, May 19th.
- J. Pielant was one of the presenters for Inria’s stand at « **Bouge la Science** » at Supélec.
- A. Couvreur gave a conference “Les mathématiques pour protéger l’information” for the pupils of Collège Moreau in Monthléry (91).

HYCOMES Team (section vide)

LFANT Project-Team

7.3. Popularization

K. Belabas gave a lecture to present Bhargava's works (2014 Fields medal) to high school teachers during the "Journée de l'IREM d'Aquitaine" (11/2014, about 100 attendants).

A. Enge has presented "Les maths au service du secret (et de sa découverte!)" during the Math en Jeans congress held in Bordeaux in April 2014, for an audience of highschool pupils aged 12 to 17.

He has spoken on "Mathematik für (und gegen!) das Geheimnis" in an event in July at Gymnasium Leopoldinum, Detmold, Germany, to an audience comprised of pupils aged 12 to 18 and of mathematics teachers.

At the GNU Hacker's Meeting 2014 in München, Germany, he has presented a tutorial on "GnuPG key signing".

MARELLE Project-Team

9.4. Popularization

Laurent Théry presented his researcher work to three different classrooms during the event "semaine des maths", in March.

MEXICO Project-Team

9.3. Popularization

- Stefan Haar gave a talk entitled "Revèle tes défauts" on fault diagnosis in the popularization series "Unithé ou café" of Inria Saclay-Idf, on February 7, 2014.

MUTANT Project-Team

8.3. Popularization

Arshia Cont was invited to a **TEDx Talk** in October 2014 on *Human-Computer Musicianship* that attracted more than 12 thousand podcasts according to organisers.

Arshia Cont was invited to participate in CNRS's 2nd edition of "Les Fondamentales" Science and Society event in Grenoble, in a session dedicated to **Science and Music on the same Score**.

Arshia Cont was invitee to the BFM Business Program on *Future of Sound*.

Arshia Cont was featured in the June Edition of *Usbek et Rica* magazine.

MuTant team participated in the 2014 edition of *Futur en Seine* festival and showcased **collaboration with Orchestre de Paris** in a public event.

Article on Antescofo by Arshia Cont in the December 2014-January 2015 edition of the popular science magazine "Dossier de La Recherche".

José Echeveste, Arshia Cont and Jean-Louis Giavitto participated to the colloquium "La musique en temps réel" in the festival Musica, Strasbourg, september 2014.

Jean-Louis Giavitto participated to the colloquium "Le calcul et le temps, colloque de philosophie de l'informatique" Université Jean Moulin (Lyon 3), novembre 2014. He was invited on several seminars outside computer sciences: EPFL - ArchiZoom, "computational morphogenesis" in the context of the architecture exhibition "Animal ?" (april 2014); the elmlalfructidor art school in Chalons, "space and the formalization of musical processes" (april 2014); CNSMD Lyon and the Ecole Normale Lyon, "Du temps écrit au temps produit" with Julia Blondeau (april 2014); CISEC (club Inter-associations – AAAF, SEE, SIA – des Systèmes Embarqués Critiques), "Temps Réel en musique : Antescofo" (Toulouse June 2014).

Florent Jacquemard participated to the Inria seminar "1/2 hour of science" in July 2014, with a talk on Testing and Verification of interactive music systems.

PAREO Project-Team

8.3. Popularization

Jean-Christophe Bach participated to scientific mediation by proposing several activities to demonstrate the *algorithmic thinking* at the core of the Computer Science without requiring any computer or even electric devices. These activities are the first part of the CSIRL (Computer Science In Real Life) project which aims to popularize computer science and to initiate children, school students and non-scientists into this domain.

Pierre-Etienne Moreau gave two lectures about “Robotics and Programming” in the ISN course (Informatique et Science du Numérique), in order to help professors of “classes de terminale” to teach this discipline. He organized a three day course about “Algorithms, Programming and Databases” in order to help professors of “classes préparatoires aux grandes écoles” to teach this discipline.

Pierre-Etienne Moreau is member of the national committee for Inria “Médiation Scientifique”. He also participated to “Fête de la Science 2014” at Mines Nancy.

PARKAS Project-Team

8.3. Popularization

T. Bourke hosted a tutorial by Makarius Wenzel at ENS Ulm on the Isabelle proof assistant.

PARSIFAL Project-Team (section vide)

PI.R2 Project-Team

7.3. Popularization

Pierre-Louis Curien wrote the editorial of a special “hors série” issue of the information letter of The Fondation Sciences Mathématiques, entitled “Des preuves et des programmes”, may 2014. He wrote an introductory article “Formalisation mathématique, certification logicielle, même combat!” in the journal Gazette des Mathématiciens 142, 83-86 (octobre 2014).

Lourdes González-Huesca and Étienne Miquey took part in the animation of the “Fête de la Science” event at the University Paris 7.

Étienne Miquey took part in the animation of several activities about mathematics in elementary and high schools of Paris.

Yann Régis-Gianas co-organised the “Journée Francilienne de Programmation”, a programming contest between undergraduate students of three universities of Paris (UPD, UPMC, UPS).

Yann Régis-Gianas organised the “Fête de la Science” event for the computer science department of the University Paris 7.

Yann Régis-Gianas and Pierre Letouzey took part in the “Salon Culture et Jeux mathématiques” at Saint Sulpice, Paris.

Yann Régis-Gianas gave several conferences about “What is programming?” in elementary and high schools of Paris.

POLSYS Project-Team

8.4. Popularization

Guénaél Renault was invited speaker for the workshop *Fabriquer le Hazard du forum Science, Recherche et Société* (May 22, 2014) organized by the newspapers Le Monde et La Recherche.

POSTALE Team

8.3. Popularization

Christine Eisenbeis est membre du conseil scientifique des programmes du centre d'Alembert, Centre Interdisciplinaire d'Étude de l'Évolution des Idées, des Sciences et des Techniques (CIEEIST), de l'université Paris-Sud. À ce titre, elle a fait partie du comité d'organisation du colloque "Recherche et démocratie", 21-22 mai 2014, Orsay, (<http://www.centre-dalembert.u-psud.fr/archives-colloques/2014-recherche-scientifique-et-democratie/>). Lors de l'animation "Livres au marché" de Malakoff, le 23 novembre 2014, elle a présenté, avec Jean-Pierre Archambault, le livre d'enseignement en terminale de l'ISN (Informatique et Sciences du Numérique) (principal auteur Gilles Dowek).

PRIVATICS Project-Team

8.3. Popularization

Interview of Mathieu Cunche on Radio Canada in the chronicle of Janic Tremblay, 3rd February 2014.

Interview of Mathieu Cunche on Radio France Inter in “Journal de 18h”, February 28th 2014.

Seminar of Mathieu Cunche “ Je sais tout sur vous grâce au Wi-Fi! ” Séminaire sur la Confiance Numérique at Clermont Ferrand, March 6th, 2014.

Interview of Mathieu Cunche on Radio France Info in “Tout comprendre” chronicle, March 18th, 2014.

Interview of Mathieu Cunche in Ouest-France news-paper, May 10th, 2014.

Participation of Mathieu Cunche to the TV show "Le Monde en Face" on France 5, June 17th, 2014.

Participation of Mathieu Cunche to the round table “ Numériquement vôtre ” at Futur en Seine, June 14h, 2014.

Seminar of Mathieu Cunche “ Internet: Vie privée, Surveillance et Censure ” at St-Génis Les Ollières, December 20th, 2014.

Seminar of Cédric Lauradoux “ Identifiants et guesswork ” Séminaire sur la Confiance Numérique at Clermont Ferrand, January 9th, 2014.

Seminar of Cédric Lauradoux “ Identifiants et guesswork ” Séminaire sur la Confiance Numérique at Clermont Ferrand, January 9th, 2014.

Seminar of Cédric Lauradoux “ Déni de Service Algorithmique ”, Journées Sécurité des Systèmes d’informations at Rouen, November 13th, 2014.

Seminar of Cédric Lauradoux “ L’Internet des Objets et l’Internet des identifiants ”, Colloque Sécurité de l’Internet des Objets (chaire de cyberdéfense et cybersécurité Saint-Cyr – Sogeti – Thalès) at Rouen, September 19th, 2014

Interview of Vincent Roca and Mathieu Cunche, “ Comment brouiller sa trace dans les réseaux ? ” Sciences et Avenir, issue 809, July 2014.

Interview of Vincent Roca, “ Spécial Grenoble : portrait de trois chercheurs ”, Le Point édition régionale, issue 2195, October 9th, 2014.

Editorial of Claude Castelluccia and Vincent Roca, “ Mobilitics Saison 2: les smartphones et leurs apps sous le microscope de la CNIL et d’Inria ”, La lettre Innovation et Prospective de la CNIL, issue 8, December 2014.

Seminar of Vincent Roca, “ Vie privée et Smartphone : le projet Mobilitics Inria/CNIL ”, DAFP-RAF Inria meeting, Paris, October 16th, 2014.

Seminar of Vincent Roca, “ Vie privée et Smartphone : le projet Mobilitics Inria/CNIL ”, organized by the Guilde des Utilisateurs d’Informatique Libre du Dauphiné (GUILDE), Grenoble, November 4th, 2014.

Short TV subject with Vincent Roca, “ Applications mobiles : de vrais espions ? ”, ARTE X:enius magazine, September 1st, 2014. http://www.arte.tv/guide/fr/051090-010/x-enius?vid=051090-010_PLUS7-F

Press conference, organized by CNIL in association with Inria, “ Vie privée et smartphones : les nouveaux résultats du projet Mobilitics Inria-CNIL ”, December 15th, 2014.

Seminar of Daniel Le Métayer, at the Cybersecurity Forum (ETH Zurich), 2014.

Participation of Daniel Le Métayer to a panel on privacy by design at the Annual Privacy Forum (APF 2014, Athens).

Participation of Daniel Le Métayer to Panel on at Computers Privacy and Data Protection (CPDP 2014 – Brussels).

Nomination of Daniel Le Métayer at the Commission of the French Parliament “Commission de réflexion et de propositions ad hoc sur le droit et les libertés à l’âge du numérique.”

Organization of a seminar on privacy for the COERLE (Inria) by Claude Castelluccia and Daniel Le Métayer, November 2014.

PROSECCO Project-Team

8.3. Popularization

8.3.1. Seminars

- Graham Steel: invited talks at FCS-FCC 2014 (Vienna)
- Graham Steel: invited keynote at Grande Region security day (Saarbrücken).
- Bruno Blanchet: invited talk at the Dagstuhl seminar “The synergy between programming languages and cryptography”.
- Karthikeyan Bhargavan: invited talk at the IETF TLS Working Group to discuss the Triple Handshake Attack (London)
- Karthikeyan Bhargavan: invited talk at the Dagstuhl seminar “The synergy between programming languages and cryptography”.
- Karthikeyan Bhargavan: invited talk at Les Journées Scientifiques Inria in Lille
- Karthikeyan Bhargavan: invited panelist at Security Standardization Research workshop in Surrey UK
- Karthikeyan Bhargavan: invited keynote at Santa’s Crypto Workshop 2014 (Prague)
- Antoine Delignat-Lavaud: briefing at BlackHat USA on “The BEAST Wins Again: Why TLS Keeps Failing to Protect HTTP”
- Catalin Hritcu: invited keynote at Grande Region security day (Saarbrücken).
- Catalin Hritcu: seminar at Groupe de travail LTP du GDR GPL
- Catalin Hritcu: seminar at Groupe de travail Théorie des types et réalisabilité

8.3.2. Vulnerability Reports

- Karthikeyan Bhargavan, Antoine Delignat-Lavaud, and Alfredo Pironti reported the so-called Triple Handshake attacks on TLS implementations leading to security updates to all major web browsers: Google Chrome (CVE-2013-6628), Mozilla Firefox (CVE-2014-1491), Internet Explorer (CVE-2014-1771), Apple Safari (CVE-2014-1295), as well as to non-browser TLS libraries such as Oracle JSSE (CVE-2014-6457) and RSA BSAFE (CVE-2014-4630). For more details, see <http://secure-resumption.com>
- Antoine Delignat-Lavaud reported virtual host confusion attacks on a number of web servers, leading to security updates to the Akamai content delivery network, Dropbox, Bugzilla, as well as the NGINX web server. His results were presented at BlackHat USA and are summarized at <http://bh.ht.vc>
- Karthikeyan Bhargavan reported state machine attacks on major TLS libraries, such as OpenSSL (CVE-2014-3572), NSS, JSSE, CyaSSL, and SecureTransport, leading to security updates in all these libraries.

SECRET Project-Team

9.3. Popularization

- Anne Canteaut has been invited to give the annual Computer Science Talk for the new students at Ecole Polytechnique, Palaiseau, June 2014 [79].

SPADES Team (section vide)

SPECFUN Project-Team

9.4. Popularization

- A. Mahboubi has written an article [16] for the popular science website “Images de Mathématiques”, in the context of a partnership of this website with the Bourbaki seminar.
- A. Mahboubi has given a talk at the popular science event “Nuit des Sciences, Ébullitions” <http://www.nuit-sciences.ens.fr/> at École Normale Supérieure, on June 6th 2014.
- A. Mahboubi has been interviewed by Ph. Pajot in the magazine La Recherche, November 2014.
- A. Mahboubi has given a “Science Break” talk, at Supélec, on December 10th 2014, an event organized by La Diagonale Paris-Saclay, part of la Fondation de Coopération Scientifique Campus-Paris-Saclay.

SUMO Project-Team (section vide)

TASC Project-Team

9.3. Popularization

- A user guide is now available for **CHOCO**: 164 pages describing how to use **CHOCO**, together with a new website, see <http://www.choco-solver.org>. The next topics on the way will include:
 - Dealing with strong consistencies.
 - Designing an even more efficient free search strategy.
 - Providing a light explanation framework.
- Within the context of the **global constraint catalog**:
 - On-line interactive exercises completed (see http://imedia.emn.fr/global_constraints_course/).
 - Effort for providing more **TikZ** illustrations has been continued (about 1000 figures are currently available and 60 figures remain to be redesigned to **TikZ**) by **Nicolas Beldiceanu**.
 - Reorganization of the production of the pdf version (and enhancing look and navigation within the pdf) by **Mats Carlsson**.
 - Update of the web version (see <http://sofdem.github.io/gccat/>) by **Sophie Demassey**.
- A strong effort has also been made in 2014 to improve the dissemination of **IBEX** and the collaboration of programers. This includes:
 - Course on **IBEX** by **Gilles Chabert** at **MACS 2015**.
 - Creation of a new web site, see <http://www.ibex-lib.org/>.
 - Documentation writing (low-level interval arithmetic operations, contractors), see <http://www.ibex-lib.org/doc/>.
 - Migration of the code from SVN+sourceforge to github (github.com/ibex-team/ibex-lib).
 - Support via the new forum (<http://ibex-lib.org/forum>).
 - Bug/issue tracking system, private wiki for developers.
 - Introduction of Travis for continuous integration.
- Within the context of *Artificial Intelligence and real time strategy games*,
 - Interview by Inria Bretagne of **F. Richoux** on his work about Game AI, see emergences.inria.fr/emergences-2014/newsletter-n30/L30-STARCRAFT.
 - **F. Richoux** has been invited to write a short article about his work about Game AI in the “Bulletin de l’Association Française pour l’Intelligence Artificielle”. It should appear on January 2015.
- Presentation at the workshop **les femmes dans le monde académique** by **Charlotte Truchet**.
- A the 2014 edition of the Fête de la Science (Nantes University):
 - One talk on *Challenges around optimizations problems* was given by **Xavier Lorca**.
 - A session discussing and answering questions around the work of professor and researcher in computer science with young persons (18 years old) was spent by **N. Beldiceanu**.

TEA Project-Team (section vide)

TEMPO Team (section vide)

TOCCATA Project-Team

9.3. Popularization

- S. Boldo presented the *Concours Castor informatique* to computer sciences teachers (ISN) in Nancy on April 17th, 2014. A video of the talk is available at <http://videos.univ-lorraine.fr/index.php?act=view&id=1369>.
- S. Boldo gave a 2-hour course entitled *Les nombres et l'ordinateur* at the École Normale Supérieure de Cachan, France, on September 9th.
- S. Boldo gave a 2-hour course *Pourquoi mon ordinateur calcule faux?* to a general audience at the Université Inter-Âge in Versailles, France, on March 4th.
- S. Boldo gave a talk for computer sciences teachers (ISN) in Créteil on March 24th
- S. Boldo gave a talk for teenagers at the lycée Maximilien Perretin Alfortville on May 22nd.
- S. Boldo wrote an article with Jean-Michel Muller (ARIC) in the popularization journal *La Recherche* [42].
- S. Boldo wrote in 2013 an article for the French blog celebrating 2013 as the “Mathematics of Planet Earth” year: <http://mpt2013.fr/meme-les-ordinateurs-font-des-erreurs/>. This article was selected to be published in a book published in 2014 [41].
- S. Boldo is member of the editorial committee of the popular science Interstices web site, since April 2008. <http://interstices.info/>.
- S. Boldo is member of the editorial board of *Binaire* <http://binaire.blog.lemonde.fr>, the blog of the French Computer Science Society.
- S. Boldo, G. Melquiond, A. Paskevich, and C. Paulin animated two stands at the *Fête de la science*.
- A. Charguéraud and S. Boldo contributed to the preparation of the exercises of the *Concours Castor informatique* <http://castor-informatique.fr/>. A. Charguéraud is also one of the three organizers of this contest. The purpose of the *Concours Castor* is to introduce pupils (from *6ème* to *terminale*) to computer sciences. More than 228,000 teenagers played with the interactive exercises in November 2014.
- S. Conchon and J.-C. Filliâtre published a book “*Apprendre à programmer avec OCaml*” for undergraduate students learning computer programming [39] (Eyrolles, September 2014).

VEGAS Project-Team

7.3. Popularization

Guillaume Moroz is a member of the organizing committee of the *Olympiades académiques de mathématiques*.

VERIDIS Project-Team

9.3. Popularization

Marie Duflot-Kremer took part in various popularization activities, with a public ranging from primary school kids (with unplugged activities concerning sorting, programming, error detection) to non-scientific staff of the Inria center. She is also a member of the steering committee preparing an itinerant exposition intended for explaining computer science to high-school students and took part in an event of the European Code Week in Paris.

Pascal Fontaine and Stephan Merz illustrated some subjects and techniques that underly formal verification of protocols and algorithms at events like “Fête de la Science”. Using wooden puzzles and Sudoku sheets, they explained how real-life problems can be represented in logical form and then solved using automated tools based on formal logic.

Christoph Weidenbach lectured within the series “Perspektiven der Informatik” at Saarland University and within the public lecture series of the federal state of Saarland.

APICS Project-Team

9.3. Popularization

- L. Baratchart was a speaker at “Café in” (Oct. 2014, Inria Sophia-Antipolis-Méditerranée).
- J. Leblond is a member of the Committee MASTIC. She was an invited speaker at the seminar associated with the lecture by G. Berry at the Collège de France (Jan. 2014).
- M. Olivi is president of the Committee MASTIC (Commission d’Animation et de Médiation Scientifique) <https://project.inria.fr/mastic/>. She is responsible for Scientific Mediation.

ASPI Project-Team (section vide)

BACCHUS Team (section vide)

BIPOP Project-Team (section vide)

CAGIRE Team

9.3. Popularization

- Opération Forum des Métiers organisée par la Zone d'Activité Pédagogique d'Oloron Sainte Marie (64) , Salle Pierre Scohy, Oloron Sainte Marie (a stand was manned by [PB] during one day with the objective of explaining the activity of researcher to an audience of schoolboys/girls and high school students).

CLASSIC Project-Team (section vide)

COMMANDS Project-Team

9.3. Popularization

The paper [10] about running strategies was reported in several media in 2014, especially by Figaro (May 29), Usine Nouvelle (May 18), Science Daily (May 15), MedicalXPress (May 15), Ipodiatry (May 21) and French Huffington Post in 2013.

CORIDA Team (section vide)

CQFD Project-Team

9.3. Popularization

M Chavent and J. Saracco are elected members of CNU 26.

B. de Saporta was an elected member of CNU 26 until sept. 2014.

J. Saracco is vice president of the french statistical society (SFdS).

DEFI Project-Team

9.3. Popularization

- H. Haddar gave a lecture at UnithéouCafé on "Décoder les ondes". The video is available at the youtube inriachannel <https://www.youtube.com/watch?v=baS8mL66xiE>

DISCO Project-Team

9.3. Popularization

Catherine Bonnet has been a portrait in the exhibition '*Infinités Plurielles*', Marie-Hélène Le Ny

Alban Quadrat gave a scientific popularization talk entitled *Une science du contrôle ou Qu'appelle-t-on théorie du contrôle en science ?* at the conference *Contrôle et Contrainte en Science-Fiction*, University of Picardie Jules Verne, Beauvais (France), organized by the department of Lettres, Langues, Arts et Sciences Humaines (FLASH), 23-25/04/2014.

DOLPHIN Project-Team

9.3. Popularization

- Bioinspired computing - talk in undergraduate and graduate schools
- Inaugural conference of Math en Jean - Bioinspired computing (see <http://lille1tv.univ-lille1.fr/videos/video.aspx?id=6b894d87-bcd3-4ee5-a69c-7af3a2b6446f>)
- Operational research - for 2nde during integration week (June 2015)
- E-learning in algorithmics http://ressources.unisciel.fr/progcartes/co/_web.html
- Optimisation des données, Interstice
- Invited GECCO'2013 tutorial on Evolutionary Multiobjective Optimization
- Invited tutorial on Evolutionary Multiobjective Optimization (Reseau Mexico meeting, November 2014 in La Rochelle, France)
- Invited talk at PGMO-COPI conference on Multiobjective CMA-ES (November 2014 in Palaiseau, France)

ECUADOR Project-Team

9.3. Popularization

- Laurent Hascoët made a presentation on “Adjoint Automatic Differentiation for Data Assimilation” at the EGC 2014 conference in Rennes, January 28.
- Laurent Hascoët made a presentation on “Using Algorithmic Differentiation Tools to Compute Derivatives” at the ATOC Adjoint 2014 workshop organized by the British Antarctic Survey, Cambridge, July 1-2.
- Laurent Hascoët was invited to a seminar on adjoint methods <http://www.dagstuhl.de/program/calendar/partlist/?semnr=14371&SUOG> in Dagstuhl, Germany, september 7-12.

GAMMA3 Project-Team (section vide)

GECO Project-Team (section vide)

GEOSTAT Project-Team (section vide)

I4S Project-Team

9.3. Popularization

Qinghua Zhang has published the following work:

Q. Zhang: Encyclopedia article '*Nonlinear system identification – an overview*', in Encyclopedia of Systems and Control, Springer, 2014, (<http://www.springerreference.com/docs/html/chapterdbid/364854.html>) [57].

IPSO Project-Team (section vide)

MATERIALS Team (section vide)

MATHRISK Project-Team

9.3. Popularization

- A. Sulem, "Nouvelles directions de recherche en Mathématiques financières, Inria Alumni, jam session on Risk, November 25th, Inria, Paris.

Maxplus Project-Team

9.3. Popularization

J.P. Quadrat : administre le site d'intérêt général <http://www.maxplus.org>, dédié à l'algèbre max-plus.

MC2 Team

9.3. Popularization

- C. Poignard "Des décharges électriques contre le cancer" (Journée IREM Mai 2014).
- C. Poignard, A. Silve. Différence de potentiel induite par un champ électrique sur la membrane d'une cellule biologique . La Revue 3EI, N°75, Jan 2014.
- O. Saut participates to the "excellence interviews" (<http://www.lesentretiens.org>)
- Lisl Weynans and Michel Bergmann held a stand at the "Fete de la science".
- Lisl Weynans is "chargee de mission" from the IMB for relations with high schools and gave talks to students and teachers to introduce scientific calculus.

MCTAO Project-Team (section vide)

MEPHYSTO Team

9.3. Popularization

C. Calgaro is the organizer of the action "Mathématiques itinérantes" (<http://mathematiques.univ-lille1.fr/Ouvertures/Mathematiques-itinerantes/>), which promotes mathematics among young people (conferences in highschools, "journées de la science", etc.). Members of the team regularly participate in these actions.

MISTIS Project-Team (section vide)

MODAL Project-Team

9.3. Popularization

- **Fête de la Science**

Participant: Vincent Kubicki

Fête de la Science is a series of presentations in high schools. The objective is to meet the students and expose them to the research environment and the applications of the work done by the team.

- **XPérium Lille 1**

Participants: Quentin Grimonprez, Vincent Kubicki, Samuel Blanck, Maxime Brunin, Christophe Biernacki, Serge Iovleff, Julien Jacques, Vincent Vandewalle

Vulgarization of MODAL's research to sensitize high school students and members of Lille 1 university: <https://modal.lille.inria.fr/xperium/>

MOKAPLAN Team (section vide)

NACHOS Project-Team (section vide)

NANO-D Project-Team (section vide)

NECS Project-Team

9.3. Popularization

- The team published a flyer entitled "City Labs for Intelligent Road Transportation Systems" in the report "Impact of Control Technology", <http://ieeecss.org/sites/ieeecss.org/files/CSSIoCT2Update/IoCT2-RC-CanudasdeWit-1.pdf>.
- The team has organized the Hycon2 Show day in May 2014 with technical presentations and posters on traffic modeling, estimation and control. We got more than 40 registered peoples from different universities and compagnies, <http://www.inria.fr/en/centre/grenoble/calendar/hycon2-show-day-traffic-modeling-estimation-and-control>.
- The team has organized the 1st technical SPEEDD meeting in May 2014 with a specific visit organized to the traffic center (DIR-CE, Grenoble).

NON-A Project-Team

9.3. Popularization

- Non-A team participated in Innorobo 2014 at Lyon, which is the only European event on robotics (<https://team.inria.fr/non-a/2014/12/15/innorobo-2014/>).
- The new platform for mobile robot demonstration in Euratechnologie Inria Lille in December 2014 is provided by using the result of ADT SLIM (<http://www.inria.fr/en/centre/lille/news/robots-superheroes-of-cooperation-and-surveillance>).
- The invited paper [84] is published in the journal ERCIM News. It presents the main goals and the results of the Inria team-project NON-A in the context of Cyber-Physical Systems.

OPALE Project-Team

8.3. Popularization

P. Goatin authored a short contribution to the book “*Brèves de Maths - Mathématiques de la planète Terre*”, Nouveau Monde ed., 2014.

J.-A. Désidéri is a consultant at ONERA (*The French Aerospace Lab*) and participates in the scientific activities of DSNA (Department of Numerical Simulation and Aeroacoustics, Châtillon) and DAAP (Department of Applied Aerodynamics, Meudon).

POEMS Project-Team

9.3. Popularization

- Publication in the journal Interstices of Inria: *Le piano rêvé des mathématiciens* Juliette Chabassier, Antoine Chaigne, Marc Duruflé and Patrick Joly.
- Conference of Patrick Joly to high school teachers: *Modélisation d'instruments de musique par ordinateur*, Journées ISN pour l'académie de Versailles, Inria Rocquencourt, April 2014.
- Conference of Patrick Joly to high school students during the TFJM (Tournoi Français des Jeunes Mathématiciens et Mathématiciennes) at ENSTA, June 2014.

QUANTIC Team

7.3. Popularization

The high profile publications in Nature and Science are popularizing the new field of quantum engineering.

A. Sarlette has been giving talks on "reservoir engineering" to the (non-quantum) control community during several seminars.

M. Mirrahimi was an invited plenary speaker at CANUM (Congrès National d'Analyse Numérique) 2014, where he gave a public presentation on quantum feedback and quantum reservoir engineering.

REALOPT Project-Team (section vide)

REGULARITY Project-Team (section vide)

SELECT Project-Team

9.3. Popularization

Gilles Celeux and Valérie Robert have written an article on statistics in basket-ball to appear in the Journal of the SFdS, special issue 'sport and statistics'.

SEQUEL Project-Team

9.3. Popularization

- M. Valko gave an Interview on "Face Recognition" at Sciences et Avenir (July 2014)
- M. Valko gave an Interview on "Biometric applications will soon be part of our daily life" at ARTE Future (November 2014)
- Article on research of M. Valko's collaboration with INTEL - Ford and Intel Mobii project using Face Recognition, at engadget.com (June 2014) <http://www.engadget.com/2014/06/25/ford-and-intel-project-mobii-connected-car-cameras/>
- Article on research of M. Valko's collaboration with INTEL - Ford prototype using Face Recognition at intel.com (June 2014) <http://www.intel.com/content/www/us/en/automotive/ford-mobii-prototype-video.html>
- as part of the Inria mediation program, Ph. Preux met high schools pupils to explain what research is.

SIERRA Project-Team

8.3. Popularization

S. Lacoste-Julien, Lecture "Apprentissage statistique et big data", Colloque Algorithmique et Programmation, CIRM, Luminy, France, April.

S. Lacoste-Julien, General public talk to high school students having participated in the mathematics olympiad of académie de Versailles "Apprentissage statistique et big data" at Inria-Rocquencourt, Rocquencourt, France, June.

S. Lacoste-Julien, Demi-heure de la science "Apprentissage automatique et big data", at Inria-Rocquencourt, Rocquencourt, France, November.

S. Lacoste-Julien, July-Dec: helped Sydo for making a popularization video for Inria on the theme of "Simulation and machine learning".

TAO Project-Team

9.3. Popularization

Yann Ollivier, co-organizes the European Union Contest for Young Scientists (science fair for high school students from 30+ countries organized by the European Commission).

TOSCA Project-Team

9.3. Popularization

M. Bossy published in the *Brèves de maths* book [25].

ABS Project-Team (section vide)

AMIB Project-Team

7.3. Popularization

Y. Ponty authored the pop. sci. paper *Bio-algorithmique des ARN : petite promenade aux interfaces* [31] for *1024*, the journal of the French society of computer science (SIF).

ANGE Project-Team (section vide)

ARAMIS Project-Team

9.3. Popularization

The team is involved in the BrainCatalogue project (coordinator: Roberto Toro, Institut Pasteur) dedicated to the popularization of neuroanatomical knowledge. The project features MRI scans and 3D reconstructions for various vertebrates species (bear, mouse, macaque, dolphin, leopard, rhinoceros, human, squirrel ...).

The team coordinates the activity of the FreeBorn consortium which aims at promoting the interaction and visibility of the French research teams working on brain connectivity and network theory: <https://sites.google.com/site/fr2eborn/>

ASCLEPIOS Project-Team

8.3. Popularization

Maxime Sermesant gave 2 presentations in 2014 about research and medical imaging in local high schools (Lycée Tocqueville in Grasse and Lycée Saint Exupéry in Saint Raphaël).

ATHENA Project-Team (section vide)

BAMBOO Project-Team (section vide)

BEAGLE Project-Team

7.3. Popularization

- Guillaume Beslon published an interview on modeling in "la revue du progres".

BIGS Project-Team

8.3. Popularization

- Fête de la Science, Nancy, École des Mines, 2014/10/17 (A. Muller-Gueudin, S. Tindel, P. Vallois).
- Forum Emploi Maths 4, December 2014 (C. Lacaux).
- Advisor of a group of students, "La main à la Pâte" project, Institut médico-éducatif (IME), Commercy, September-December 2014 (S. Ferrigno).
- Advisor of a group of pupils from Lycée Varoquaux, Tomblaine (Maths en Jeans) (P. Vallois).
- Publication of the short science popularization article "Les huîtres ont des oreilles" in the book "Brèves de maths – Mathématiques de la planète Terre". Editions Nouveau Monde, 2014 (pages 214–215). Authors: Romain Azaïs, Raphaël Coudret and Gilles Durrieu.
- C. Lacaux is member of the *comité national universitaire (section 26)* (2011–2015).

BIOCORE Project-Team

9.3. Popularization

The activities related to microalgae have generated many articles in national newspapers (Le Monde.fr, Libération, Le Point.fr, ...), and broadcasts on national TV. Several articles were written by the team members to explain the hurdles and potential of microalgae [74]. A book [93] was also written with C. Gudin (formerly at CEA Cadarache) on the potential of microalgae. We also developed a Java applet for the simulation of microalgae growth and biological pest control. The aim of the applet is for the general public to understand the goals and difficulties of controlling such systems.

We have also made a short movie to explain the advantages of our supervision software **ODIN** and to present the pilot photovoltaic greenhouses which will be developed within the ANR Purple Sun project.

BONSAI Project-Team

9.3. Popularization

- We made seven presentations, using dedicated “genome puzzles” in high schools during the “Science week” to popularize bioinformatics.
- During a whole day in June we made presentations on bioinformatics with our “genome puzzles” to several groups of high school students.
- V. Leclère has created a demonstration stand for Xperium, part of the Learning center Innovation of Lille 1 University.

CARMEN Team

8.3. Popularization

- G. Ravon and Y. Coudière obtained a financial support from Cap' Math for the game: "Heart Attack". It is destined to middle and high school students to introduce mathematical modelling.
- S. Labarthe presented the work of the team at the June session of the Inria Bordeaux-Sud Ouest "Unithé ou café" scientific diffusion presentation.

CASTOR Project-Team

9.2. Popularization

Contribution of B. Nkonga to a Newspaper in the local Journal La Marseillaise www.lamarseillaise.fr/.../30371-90-mathematiciens-en-fusion-a-luminy

Contribution of B. Nkonga to the Iter interfaces news. <http://www.itercad.org/Interfaces/Interfaces51.pdf>

B. Nkonga and H. Guillard was organizers of the summer school CEMRACS 2014 on Numerical modeling of plasmas, July 21 - August 29, CIRM, Marseille

CLIME Project-Team

9.3. Popularization

- Marc Bocquet wrote a paper on “La prévision numérique du temps” in the journal “Revue de Technologie” meant for the teachers of vocational technical education.
- Victor Winiarek and Marc Bocquet wrote an internet contribution “de la radioactivité dans l’air”, which was published in the general audience book “Brève de maths”, Nouveau Monde éditions, Paris, 2014.
- Marc Bocquet and Mohammad Reza Koohkan wrote an internet contribution “Quand modèles numériques et mesures ne sont pas sur la même longueur d’onde”, which was also published in “Brève de maths”.
- Vivien Mallet took part to a one-day introduction to Inria research at Assemblée Nationale, as organized by the group “Internet et société numérique”.
- Vivien Mallet introduced data assimilation at urban scale during the “rencontre Inria-industry” organized during the Futur-en-Seine digital festival.

COFFEE Project-Team (section vide)

DEMAR Project-Team (section vide)

DRACULA Project-Team

9.3. Popularization

- Fabien Crauste : Cycle "Mathématiques et médecine" de l'Université Ouverte "Grippe saisonnière, épidémie, pandémie : quel apport des mathématiques ?", 25 March 2014.
- Olivier Grandrillon : Participation in the café des sciences "La recherche en génétique, entre prouesses et promesses", in Lyon (Samedi 11 octobre)
- Samuel Bernard : Participation in Conférence à l'Université Ouverte "Garder le rythme, c'est garder la santé" and "L'âge de nos cellules par test nucléaire", in Lyon.
- Thomas Lepoutre : Cycle "Mathématiques et médecine" de l'Université Ouverte.
- Thomas Lepoutre is one of the organizer of Mathalyon (Mathematical exhibitions in highschool with 4 researchers, 20 days of intervention every year).
- Thomas Lepoutre : Intervention at Cité Scolaire Internationale (Highschool in Lyon) to explain what is a researcher's job.
- Laurent Pujon-Menjouet : Cycle "Mathématiques et médecine" de l'Université Ouverte "Le bonheur est dans le pré, les vaches folles aussi", 16 September, 2014.
- Laurent Pujon-Menjouet : supervising junior high school students for the "MathenJeans" program <http://www.mathenjeans.fr> (academic year 2014-2015).

DYLISS Project-Team

8.3. Popularization

- *Revue Math/info Tangente* Nous avons participé à un numéro spécial de cette revue destinée aux lycées avec un article de bioinformatique sur les langages des molécules du vivant illustrant l'intérêt de la modélisation par langages formels dans ce cadre. [J. Nicolas, C. Belleannée, F. Coste] [41]
- *Rencontre Inria Industrie* "Bio-informatique et outils numériques pour les produits de santé" Lyon (Feb. 2014) [F. Coste, A. Antoine-Lorquin, A. Siegel, S. Videla]
- *FrenchTech Rennes* Popularization of genome assembly on a Raspberry Pi at a FrenchTech event in Rennes (Dec. 2014) [G. Collet].
- *Bioinfo-fr.net* Bioinfo-fr.net is a french web site where researchers, engineers and students talks about bioinformatics. We have written 6 articles for this web site on diverse subjects: metabolic networks, genome assembly, phylogenetics, network visualization. [G. Collet, S. Prigent, O. Dameron]. [more info].
- *Fête de la science (LINA, Nantes)* During the 17th of october, 250 students discovered bioinformatics, genome assembly, metabolomics and algorithmic by practicing games and tutorials made by our team with the help of Julien Gras, Erwan Delage and Stephanie Noguét (LINA) [J. Bourdon, D. Eveillard, Y. Guitton].
- *Organization of Sciences en Cour[t]s*. Popularization Festival where PhD students explain their thesis via short films. [S. Prigent, C. Bettembourg, G. Garet] [more info].
- *GNU/Linux Magazine* Article "La bioinformatique avec Biopython", Hors-série 73, pp 84–97. 2014. [O. Dameron] [40]

FLUMINANCE Project-Team

9.3. Popularization

Etienne Mémin

- E. Mémin. Ou vont les nuages ?, Un jour, une brève, Mathématiques de la planète terre, (Brève)
- Invited paper in the journal "Revue française de photogrammétrie et de Télédétection", Outils méthodologiques d'analyse d'images MSG : estimation du mouvement, suivi de masses nuageuses et détection de fronts, with T. Corpetti, V. Dubreuil, E. Mémin, O. Planchon, C. Thomas.
- Invited paper in the journal de la Société Française de Statistique, Image data assimilation with filtering methods, with Anne Cuzol.

GALEN Project-Team

9.3. Popularization

- **Blaschko, Matthew**
 - **Presentations:** Third School on Machine Learning and Knowledge Discovery in Databases (BR), Computer Vision and Pattern Recognition Tutorial (US), KU Leuven (BE), Machine Learning Challenge MICCAI Workshop (US), Agence Nationale de la Recherche (FR)
- **Kokkinos, Iasonas**
 - **Presentations:** Imagenet workshop (in conjunction with ECCV, CH), TTI-Chicago (USA), KTH University (SE), Dagstuhl Seminar on Shape Analysis (DE).
- **Kumar, Pawan M.**
 - **Presentations:** University of Oxford (UK), Ecole des Ponts (FR), Swedish AI Society Workshop (SAIS '14, SE), Xerox Research Center Europe (XRCE) (FR).
- **Paragios, Nikos**
 - **Presentations:** Reconnaissance de Formes et l'Intelligence Artificielle (RFIA'14, FR), Medical Imaging Summer School (MISS'14, IT), International Conference on Pattern Recognition (ICPR'15, SE), Algorithmic issues for Inference in Graphical Models (AIGM'14, FR), University of Patras (GR), Swiss Federal Institute of Technology in Zurich (ETHZ) (CH).

GENSCALE Project-Team (section vide)

IBIS Project-Team (section vide)

KALIFFE Project-Team (section vide)

LEMON Team

9.3. Popularization

Antoine ROUSSEAU is co-author of the **book** [16] (and **blog**) *Brèves de Maths* (Ed. Nouveau Monde, Nov. 2014)

Antoine ROUSSEAU gave several conferences for highschool students and their teachers in France, on the topics of mathematical modeling for environmental sciences:

Fête de la Science, Oct. 2014, Genopolys Montpellier (with Twitter reports on the national account [@EnDirectDuLabo](#))

Fête de la Science, Oct. 2014, Centre International de Valbonne

Initiation à la recherche, Oct. 2014, [Lycée Saint-Sernin](#), Toulouse

Antoine ROUSSEAU gave a public lecture for Inria staff *Café In'* in Inria Sophia, Dec. 2014

Antoine ROUSSEAU was invited to the *Société Informatique de France* annual workshop **SIF 2014** to participate to a round table on scientific outreach

Antoine ROUSSEAU is member of the national Inria network for scientific outreach *Médiation scientifique*

Arnaud Duran gave a public lecture for high school students at Collège Jean Bène (Pézénas, France), Feb 2014.

LIFEWARE Team

9.3. Popularization

- Grégory Batt has been an invited speaker at the citizen science workshop Worldviews and Values in Synthetic Biology, Paris, June 2014.
- Grégory Batt had a stand at *Rencontres Inria Industries*, Lyon, May 2014.
- Xavier Duportet has been invited to speak at the *4th Congreso del Futuro* (Santiago, Chili), together with renown change makers (e.g. J. Rifkin, T. Piketty)
- Xavier Duportet is the cofounder and president of Hello Tomorrow, an international non-profit organization to promote technology entrepreneurship, with hubs in more than 80 cities worldwide and organizing one of the largest global startup competition.
- Xavier Duportet is the vice president of *Osons La France*, a forum to promote scientific innovation (Grand Palais, Paris, Dec 2014).
- Xavier Duportet has been featured in *Le Monde*, *L'Obs*, *Europe1*, *L'Opinion* (2x), *SoonSoonSoon*, *L'Atelier*, and *Widoobiz*.
- François Fages gave an invited talk at *Forum des Lauréats en Informatique et Mathématiques Appliquées*, Collège de France, Paris, Dec 2014.
- François Fages gave an invited talk at *Deuxième Journée Biologie et Mathématiques sur la Montagne*, Collège de France, Paris, Oct 2014.
- Artémis Llamosi is the co-fondeur and general secretary of the OpenLab, and organizer of related events on product industrialization. He provides scientific expertise to hosted startups.

Our research has also been presented at many scientific venues, in invited talks at the

- 21st European Conference on Artificial Intelligence, ECAI'14 (Prague, Aug 2014, François Fages),
- 10th International Conference on Distributed Computing and Internet Technology ICDCIT'14 (Bhubanesvar, Feb 2014, François Fages),

contributed talks

- in LyonSysBio conference (Nov. 2014, François Bertaux),
- International Workshop on Image-based Systems Biology (Jena, Sept. 2014, Szymon Stoma),

invited seminars

- IriSa Rennes and LISBP Toulouse (Grégory Batt),

and posters at

- the Systems Biology of Human Diseases workshop (Harvard, June 2014, François Bertaux),
- q-bio summer conference (Santa Fe, Aug. 2014, François Bertaux),
- Stochastic Biology (IST Austria, May 2014, François Bertaux),
- Image Bioinformatics (Leuven, Oct. 2014, Szymon Stoma),
- European Conference on Computational Biology (Strasbourg, Sep 2014, Denis Thieffry, Pauline Traynard),
- International Conference on Systems Biology (Melbourne, Sep 2014, François Fages, Pauline Traynard).

M3DISIM Team

8.3. Popularization

- D. Chapelle interviewed for article in “Usine Nouvelle” on cardiac modeling
- D. Chapelle invited at “Futur en Seine” event for presentation and debate on predictive systems
- P. Moireau presentation for the Inria Direction of Financial Affairs on the “heart forecasting”

MAGIQUE-3D Project-Team

9.3. Popularization

Juliette Chabassier has written a contribution for interstices, “Le piano rêvé des mathématiciens” (see https://interstices.info/jcms/ni_76925/le-piano-reve-des-mathematiciens)

Juliette Chabassier has contributed to “Visages des Sciences”, a series of postcards which are portraits of scientists.

MAGNOME Project-Team

9.3. Popularization

David Sherman works with Didier Roy and Pierre-Yves Oudeyer of the Flowers project-team to develop tools and courseware for helping elementary school students explore robotics. David has developed software for communicating between the Scratch 2 visual programming language and the Thymio-II educational robot, and examples for use in the classroom.

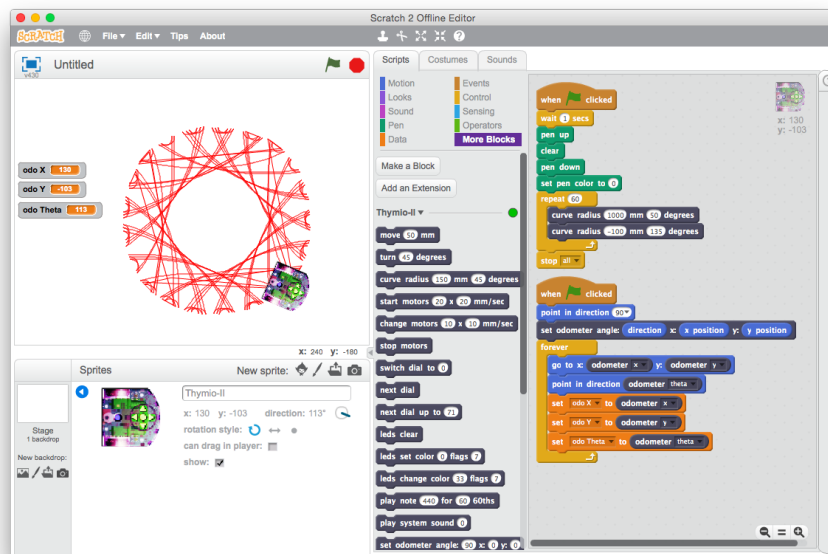


Figure 4. Piloting the Thymio-II robot with Scratch 2

MAMBA Team

MASAIE Project-Team (section vide)

MNEMOSYNE Project-Team

8.3. Popularization

For a multi-disciplinary team as Mnemosyne, science popularization is not a nice and useful contribution to the dissemination of scientific knowledge but also a necessity since we work with colleagues from bio-sciences with whom sharing profound ideas in computer science is mandatory for a real collaboration.

- Thierry Viéville is half-time involved in popularization actions both at a concrete level (including on Mnemosyne subjects) and at the methodological level. This explains the amount of references to these external subjects in this document.
- Nicolas Rougier: Invited talk on “The role of the body in human cognition” in the 13th Forum des Sciences Cognitives, Paris, March 2014; Participation to a round-table meeting on the digital society at the Futur en Seine festival; Article in Linux Mag on scientific visualization [21]
- PhD students participated to the regional exhibition Aquitec (C. Héricé and Maxime Carrere) and to “Fête de la Science” C. Héricé).

MODEMIC Project-Team

8.3. Popularization

Jointly with Inria project-team LEMON, MODEMIC has participated to the elaboration of a “serious” game for learning how to purify fast and well a water reservoir, in the scope of the international initiative Mathematics of Planet Earth and the french consortium Cap’Maths (see [5.1](#)).

MOISE Project-Team

9.3. Popularization

- Since 2010, Ch. Kazantsev is the Director of the IREM of Grenoble <http://www-irem.ujf-grenoble.fr/irem/accueil/>. The Institute is under rapid development now, joining about 30 teachers of secondary schools of the Grenoble region and 15 university professors. They work together 16 times a year on the development of the teaching strategy for the educational community. In addition to this, IREM is the editor of two journals: "Grand N" destined to primary schools teachers and "Petit x" – to the secondary schools. As a director and as an animator of IREM, Ch. Kazantsev has participated at
 - the week of Mathematics, the 17 and 21 March 2014,
 - the festival "Remue-Méninges", Echirolles, 22-25 April 2014,
 - the internship MATHC2+ in June and in October 2014,
 - the "Journées Nationales de l'APMEP": presentation of two workshops with M. Gandit "Sky: between historical and simulated data",
 - the "Fête de la science" with workshops "28 nuances de sciences" and "Récréation mathématique pour tous".
- M. Nodet gave talks and made posters to explain how the "problem-based learning" (a special case of "active learning") approach was introduced in mathematics for Grenoble university undergraduates, see e.g. [75] and [61].
- M. Nodet (in collaboration with A. Rousseau and S. Minjeaud) wrote a chapter of an outreach book "Brèves de maths" [59].
- M. Nodet gave outreach talks about "mathematics for environmental modelling" in various occasions: for the Grenoble maths Olympiades awards, twice for the "Science Fair 2014" (one for undergraduate students, one for secondary school pupils), for a daily visit of highschool students at Valence university.
- M. Nodet supervises a maths club "Math en Jeans" for secondary school pupils at two schools around Grenoble, which consists in proposing open research subjects to the students and supervising them over the year, in collaboration with the teachers.
- E. Blayo gave several outreach talks, in particular for the inauguration of the Fédération Rhône-Alpes-Auvergne de Mathématiques (Lyon, February 28), for the ceremony of the Christian Le Provost prize of the French Academy of Science (Saint Briec, April 18), and for MathC2+ internships.

MORPHEME Project-Team

7.3. Popularization

Eric Debreuve was invited to give a presentation for the seminar series “Café-in”, Inria CRI SA-M, November 2014.

MYCENAE Project-Team

8.3. Popularization

- M. Desroches is section-chief editor of the media gallery of DSWeb, a website dedicated to dynamical systems <http://www.dynamicalsystems.org/pi/>.
- Participation to the scientific popularization book “La Reproduction animale et humaine” [29]

NEUROMATHCOMP Project-Team (section vide)

NEUROSYS Team

8.3. Popularization

- TV interview for France 3 Lorraine, April 7 2014 (L. Buhry)
- Interview for the "Interstices" podcast, May 22 2014 (L. Buhry)
- Brain week: Comment lire dans les pensées d'autrui ? 12 March 2014, central hospital, Nancy (L. Bougrain)
- Exhibit on *controlling a robotic arm using EEG* at Researchers' Film Festival, June 10-15, 2014, Parc de la Pépinière, Nancy (L. Bougrain)
- Computational neuroscience, Inria Scientific Days, June 2014 (Laure Buhry)
- OpenViBE, Inria Scientific Day, June 2014, Lille (L. Bougrain)
- Is it really statistically significant? « Dynamics of neural circuits » NETT workshop, March 2014, Florence (L. Bougrain)
- Multiclass approaches to identify motor imageries, LAGIS sem., Jun. 2014, Lille (L. Bougrain)
- *Additive noise in neural populations on multiple scales*, Bernstein Center for Computational Neuroscience, Berlin, July 2014 (A. Hutt)
- *Modelling neural population activity under anaesthesia*, Humboldt University Berlin, July 2014 (A. Hutt)
- *Pattern storage and transient dynamics in heterogeneous neural fields in the context of cognition*, 3rd International Conference on Neural Field Theory (ICNFT), Reading, June 2014 (A. Hutt)
- *Additive noise tunes the stability in nonlinear delayed systems*, Conference on Random Dynamics and Stochastic Numerics, Mannheim, June 2014 (A. Hutt)
- *Additive noise tunes the stability in nonlinear systems*, Inhomogeneous random systems, Paris, January 2014 (A. Hutt)
- *Additive noise in neural populations on multiple scales*, Fluctuations in Population Biology, Epidemiology and Evolution, Leiden, August 2014 (A. Hutt)

NUMED Project-Team

8.3. Popularization

V. Calvez is responsible of "Math à Lyon", a serie of conferences in high school.

E. Grenier gave a public conference in Nancy in november 2014 on "mathematics and drugs".

P. Vigneaux took part of a general book "Brèves de Maths - Mathématiques pour la planète Terre. Nouveau Monde" éditions. ISBN 9782365838962. Octobre 2014. 255p. Patronage de l'INSMI-CNRS, Inria, SMAI, SMF, SFdS

P. Vigneaux is a member of the board of "Images des Maths", a pedagogic website.

PARIETAL Project-Team

9.3. Popularization

- Bertrand Thirion has taken part to the *Autour de la question* broadcast program on Feb. 24th.
- Bertrand Thirion co-authored the popularization paper : "Le décodage cérébral : exemple de la vision" in Clefs CEA, issue 62.
- Gaël Varoquaux gave a tutorial on scikit learn at the Microsoft Tech Days (February).

POMDAPI Project-Team

8.3. Popularization

J. Ch. Gilbert has written the following page on Wikipedia.fr in 2014: [Optimisation quadratique](#).

M. Kern participated in a meeting with high school students during the “Fête de la Science” (CNAM, Paris, October 3rd, 2014), and gave presentations on the theme “Mathematics and Simulation for Underground Water” to middle school and high school students.

POPIX Team

9.3. Popularization

- Marc Lavielle was invited to give a talk for the "Olympiades des Mathématiques" in Cachan
- Marc Lavielle was invited to participate to the "Nuit des Sciences" at ENS and give a talk about statistics and GMO.

REO Project-Team

9.4. Popularization

- Matteo Aletti
 - presentation at "Incontro Neo-Laureati" (Conférence jeunes diplômés) at Politecnico di Milano
 - presentation about REVAMMAD project at ArtVerona
- Céline Grandmont
 - Popularization paper "Inspiration mathématique: la modélisation du poumon", in *Mathématique l'explosion continue*, edited by SFdS, SMAI, SMF.
 - Conference «Nuit des Sciences, ébullition», ENS Paris, June 2014
 - Conference «Mathematic Park a Bobigny», 300 students (high school level), Oct. 2014
 - Conference «Filles et Maths: une equation lumineuse», 60 students, (high school level), Oct. 2014.
- Irene Vignon-Clementel
 - Conference in High School Blanche de Castille, March 25th, Le Chesnay

SAGE Project-Team

8.3. Popularization

- J-R. de Dreuzy, J. Erhel and G. Pichot presented a poster entitled "Une eau souterraine très sollicitée", at Rencontres de la Transition Ecologique en Bretagne, January 2014 [39].
- J. Erhel gave a talk entitled "la terre se met aux maths", at lycée Descartes, Rennes, in March 2014 [38].
- J. Erhel participated in the panel on "Parle-t-on d'informatique comme on parle des autres sciences?", congrès SIF, Poitiers, France, Feb 2014
- The text "Henry Darcy et sa loi" from J. Erhel was published in the book brèves de maths [37]
- É. Canot, J. Erhel and L. Lenôtre, with M-O. Cordier, N. Lacaux, C. Lafon and J. Stainer, were in charge of the two stands Inria and Interstices at Village des sciences, Chartres de Bretagne, Sep 2014.
- J. Erhel and M-O. Cordier, with Espace des Sciences de Rennes, invited J.-P. Delahaye to celebrate the ten years of Interstices and to give a conference about the bitcoin, Rennes, October 2014.
- L. Lenôtre gave a talk at Conf'Lunch, Inria Rennes, December 2014.

SERPICO Project-Team (section vide)

SHACRA Project-Team

8.3. Popularization

8.3.1. *Talk at College de France*

Our project leader Stéphane Cotin made a talk at the College de France entitled "*Simulation en médecine : présent et futur*". This was done the 17th June 2014 in the scope of the Informatic chair, led by Nicholas Ayache.

8.3.2. *Journée Francaise de Radiologie, JFR*

The SHACRA team was par of the JFR 2014 event in Paris from the 18th to the 20th October. Hugo Talbot and Rosalie Plantefève presented their work and the project developed by the team.

8.3.3. *Interaction Healthcare*

The company Interaction Healthcare organized an event on the 3rd of April 2014 taking place in Paris. With this conference, the company aimed at promoting the field of serious games and virtual simulation training. At this occasion, Hugo Talbot presented the latest version of the training simulator for electrocardiology: "Electrophysiology simulation for RF-ablation of ventricular arrhythmia".

8.3.4. *IHU Scientific Days*

At the occasion of the IHU Scientific days, we visited the IHU Strasbourg and a talk was done by Stéphane Cotin.

8.3.5. *Visit to the Mentice company*

In december 2014, the training simulator for electrocardiology interventions was presented to the Mentice company in Göteborg (Sweden). This was the opportunity to discuss our mutual technologies and compare our simulators.

8.3.6. *Euratechnologie*

The team presented simulations in the Inria showroom at Euratechnologie in Lille all year long. This was the opportunity to get very positive and interesting feedback from visitors.

SISTM Team (section vide)

SISYPHE Project-Team (section vide)

STEPP Team (section vide)

TONUS Team

9.3. Popularization

Philippe Helluy has given a conference at the "Maison des sciences" in Strasbourg. This event is proposed for the formation of middle and high school teachers. The title of the conference was "Modèles mathématiques pour la météo".

VIRTUAL PLANTS Project-Team

8.3. Popularization

- Christophe Godin and Frédéric Boudon presented the Secret Code of Flowers in the context of an Inria initiative at the Science Festival in October.
- Christophe Godin gave two classes on Fractals in science at Lycée Pompidou (Castelnau-Le-Lez).
- Yann Guédon gave a class about the analysis of plant architecture for high-school students "Math C2+" organized by Montpellier 2 University.

VISAGES Project-Team

9.3. Popularization

- Conférence/débat public "Le partage de données d'imagerie en santé: Noeud FLI-IAM", Journées Françaises de Radiologie
- Conférence/débat public "Les biomarqueurs d'imagerie" Collège de France
- Conférence/débat public Technoférence "E-santé", Pôle Image et Réseaux
- Exposition Stand démonstration Inria, Journées Françaises de Radiologie
- Presse écrite "Équipe de recherche Visages et ses projets innovants", Revue CAPITAL
- Site web de vulgarisation "Projet Hemisfer", lettre d'information Emergences Inria
- Site web de vulgarisation : reportage photo Serimedis/inserm
- Site web de vulgarisation Emergence Inria: <http://emergences.inria.fr/emergences-2014/newsletter-n30/L30-SHANOIR>

ALGORILLE Project-Team

8.3. Popularization

Jens Gustedt is regularly blogging about efficient programming, in particular about the **C programming language**. He also is an active member of the **stackoverflow community** a technical Q&A site for programming and related subjects. A book about **modern C** is in preparation.

In collaboration with G. Oster, Coast team of Inria Nancy Grand-Est, M. Quinson develops a **pedagogic platform**. This tool aims at providing an environment that is both appealing for the student, easy to use for the teacher, and efficient for the learning process. Since 2014, an Inria ADT project aims at changing this practical tool into an experimental platform to study the didactic of programming.

M. Quinson is co-leading a working group on the teaching of computer science in the LORIA laboratory. He served both as a program chair and a local chair for a nation-wide two-days workshop gathering about hundred people involved in the introduction of computer science in the French secondary education: university lecturers in charge of teaching to the prospective CS teachers, regional heads of the Education minister accompanying this reform and producer of teaching resources. He also served both as a program chair and local chair for a regional gathering of CS teachers of the secondary wanting to exchange their good practices. This initiative, initiated in Nancy, will spread in several other French cities in 2015.

Either as a speaker or as a co-organizer, M. Quinson participated in several events that aim the popularization of computer science. These targeted a large variety of public, kids and pupils (Telecom Nancy in November), university students (Inria in March), mathematics teachers (APMEP Lorraine in March), CS teachers (SIF-ISN day in June), or the general public (Fête de la science in November).

S. Contassot-Vivier has participated to Loria animation days towards high-school visitors. In this context he has used the material and games co-designed by M. Quinson and others in the context of unplugged computer science teaching.

ALPINES Project-Team (section vide)

ASAP Project-Team (section vide)

ASCOLA Project-Team (section vide)

ATLANMOD Project-Team

8.3. Popularization

In January 2014 the team participated to the Rencontres Inria - Industrie on the theme Répondre aux Défis de L'Ingénierie Logicielle, in which we notably presented our MoDisco project and collaboration ⁰. The seminar had many participants from both industry and academia. Moreover, since several years, the AtlandMod team is already very involved in the open source community, notably via its constant activity within the context of the Eclipse Foundation. This activity actually takes different forms: creation and leading/development of Eclipse projects (under *Eclipse.org* or *Eclipse Labs*), participation to the major worldwide community events (i.e.; EclipseCon North America, EclipseCon Europe and EclipseCon France), organization of events targeting the local community (i.e. Eclipse DemoCamps), etc. This year again, the team has been active and visible in terms of concrete contributions to the community. The main remarkable items are the following ones:

- Leading of the MDT MoDisco project (Hugo Bruneliere), the Eclipse reference project concerning model-driven reverse engineering;
- Commitment to other projects directly under *Eclipse.org*: MMT ATL and EMFT EMF Facet (Hugo Bruneliere);
- Commitment to other projects under *EclipseLabs*: EMFToCSP (Jordi Cabot, Carlos Gonzalez) and EMF Views (Juan David Villa Calle, Jokin Garcia Perez, Hugo Bruneliere);
- Creation and development of a new incubation project under *Eclipse Labs*: Collaboro (Javier Canovas);
- Publication of a paper about our experience and feedback on developing and promoting open source projects in Eclipse [23], presented during the Open Source Software for MDE workshop at MODELS 2014 Conference (Hugo Bruneliere and Jordi Cabot);
- Presentation of talks during two main Eclipse events (Hugo Bruneliere): at EclipseCon North America 2014 about EMF Views [36], at EclipseCon France 2014 about Neo4EMF [35].
- In the context of the ARTIST EU collaborative project, we are strongly involved in the official ARTIST Open Source Release ⁰, notably by developing and making available several (MoDisco-based) model discovery components from Java and SQL.

Generally, the team visible presence under Eclipse is also an efficient way to continue active collaborations with industrial partners, such as Mia-Software (Sodifrance) on MoDisco - EMF Facet, and Obeo on ATL.

⁰<http://videos.rennes.inria.fr/InriaMeito/index-HugoBruneliere.html>

⁰<http://www.artist-project.eu/open-source-package>

AVALON Project-Team

9.3. Popularization

Eddy Caron has been interview by New Screens Magazine (N°9) edited by Imaginove. "Pipeline de production pour l'animation: Optimisation des temps de calcul et parallélisme", June 2014.

Gilles Fedak is a member of the Maison des Mathématiques et de l'Informatique steering committee.

Laurent Lefevre has been interviewed by Atlantico Web News Magazine on "Gadget ou véritable promesse ? Comment Amazon compte se chauffer grâce à l'énergie dégagée par les datas centers", September 21, 2014

CIDRE Project-Team

9.3. Popularization

Guillaume Piolle has participated to two scientific popularization activities, both oriented towards secondary education pupils. In both cases, his participation consisted in presentations about the objectives, methods and results of research activities in computer security and privacy (including, but not limited to our activities in CIDRE):

- *Les cordées de la réussite* : national program aimed at facilitating access to higher education for pupils from various social backgrounds ;
- *A la découverte de la recherche* : local program aimed at providing high school pupils with insights of research issues and activities.

Nicolas Prigent made a Tutorial Presentation at OSSIR Bretagne dealing with Visualization for Security.

Sébastien Gambis has participated to the event “A la découverte de la recherche”, in which he did five presentations in high school in order to raise the awareness of teenagers on privacy issues related to information technologies and to explain them the research on this topic.

COAST Team (section vide)

COATI Project-Team

9.3. Popularization

- Fête de la Science

Frédéric Giroire presented the stand "Mathémagie" (Magie et Mathématiques) at Rians, France, October 13-18, 2014;

Frédéric Havet organized the "Village des Sciences de Rians", October 13-18 (900 attendants) and created several stands and trained some people to conduct them;

Frédéric Havet presented the stand "Pavages: art, preuves et jeux" at Rians, France, October 13-18, 2014.

- Institut Esope - Maison des Sciences de Rians

Frédéric Havet is vice-president of the association Esope 21 whose aim is scientific and literary popularization. He organized many local events and conducted various discovery workshops in elementary and secondary schools. In total, he spoke in front of about 30 classes on various topics (Mathematics, Computer Science, Astronomy, Ornithology, Job in research, etc.).

CTRL-A Exploratory Action (section vide)

DANTE Team

9.3. Popularization

- Interview of E. Fleury for X:ENIUS on arte TV: *Big data : opportunity or curse ?* (<http://www.arte.tv/guide/fr/051094-020/x-enius>)
- Interview of M. Karsai for Campus Channel TV: *Master 2 program of Complex Networks* (<https://www.youtube.com/watch?v=k7I1m1NCbTU>)

DIANA Team

8.3. Popularization

Walid Dabbous presented Future Internet challenges to high school students at Lycée de Valabre Gardanne in April 2014 and at CIV in October at CIV for the Science Week (Fête de la science).

Walid Dabbous made a presentation on Software Defined Networking and Network Functions Virtualization at the Inria Industry Day in Paris on the theme “Télécoms du futur”.

Chadi Barakat presented ACQUA at the Inria Industry Day in Paris on the theme “Télécoms du futur”. See <http://www.inria.fr/en/centre/paris-rocquencourt/innovation/rii-telecoms-du-futur/program>.

DIONYSOS Project-Team

8.3. Popularization

- In their position paper [79], Bruno Tuffin and his co-author Patrick Maillé discuss for a large audience the issues and challenges of network neutrality in response to the European parliament text voted in April 2014.
- G. Rubino makes regular presentations to high school students about the research work in general, and specific technical topics in particular. Current talks:
 - Randomness as a tool
 - Internet as a research problem
 - Great challenges in maths: the Riemann Hypothesis
 - Great challenges in math/computer science: the “P versus NP” problem

DIVERSE Project-Team

9.3. Popularization

Our recent work on diversity against browser fingerprinting and the associated web site ⁰ have been demonstrated in two open source forums (OWF'14 ⁰ and FOSSA'14 ⁰). Following this, our work has been mentioned in general-audience press. In particular the Clubic magazine published a complete article about our work ⁰, which was followed by 6000 unique visits on our web site in the following 24 hours. The work was also mentioned in Le Monde ⁰.

⁰<https://amiunique.org/>

⁰<http://www.openworldforum.paris/>

⁰<https://fossa.inria.fr/>

⁰<http://pro.clubic.com/webmarketing/publicite-en-ligne/actualite-742853-fingerprinting-cookies.html>

⁰http://abonnes.lemonde.fr/sciences/article/2014/11/24/le-fossa-bazar-techno-participatif_4528568_1650684.html

DYOGENE Project-Team (section vide)

FOCUS Project-Team

8.3. Popularization

Simone Martini has carried out extended work of scientific divulgation:

- member of the technical committee of Olimpiadi del Problem Solving (at Italian Ministry of Education), <http://www.olimpiadiproblemsolving.com>;
- member of the technical committee of two national projects of Italian Ministry of Education, founded by ESF - European Social Fund: “Robotica educativa”, and “Informatica nei licei”;
- various talks at institutes and workshops on the teaching methods for Computer Science.
- coordinator of some initiatives for the ‘Hour of Code’, see italia.code.org and programmailfuturo.it.

D. Hirschhoff takes part in several popularization activities in schools, in Lyon (association "Maths en Jeans").

FUN Project-Team

8.3. Popularization

- Nathalie Mitton gave a talk on "Introduction to RFID" to Terminales S a in the framework of "Fête de la Science".
- Nathalie Mitton gave a talk on "The new challenges of the next generation of wireless ubiquitous networks" to Rencontres Inria Industries in Nov. 2014 on Telecom.
- Nathalie Mitton gave a talk at the ProjectCity Forum in October 2014 in Lille.
- Nathalie Mitton gave a talk at the CAFEET 2014 conference on IoT in Smart Factories in San Francisco in November 2014.
- Nathalie Mitton gave a talk at the EDF-Institut Telecom joint lab workshop on IoT in Smart Cities in Paris in December 2014.
- Nathalie Mitton was invited speaker at "La RFID - innovation responsable" event, march 2014, Paris.
- Nathalie Mitton was invited speaker at International Transportation System Forum in Lille in September 2014.
- Roudy Dagher gave a talk on "Introduction to Wireless Sensor Networks" in the framework of "Fête de la Science".
- Viktor Toldov gave a talk on "Introduction to Wireless Sensor Networks" in the framework of "Fête de la Science".
- Valeria Loscri gave a talk in the context of "30 minutes de sciences" at the Inria Lille - Nord Europe, May 2014.

GANG Project-Team

8.3. Popularization

Laurent Viennot has written an article on the history of telecommunication networks with a special focus on the phone network and on Internet [13].

Laurent Viennot has animated a weekly workshop on computer science unplugged in the Pouchet primary school in Paris at CM1 level (15h during 2014). The topics covered included Nim game, Euler paths in graphs, and error correcting codes.

HIEPACS Project-Team

9.3. Popularization

In the context of HPC-PME initiative, we started a collaboration with ALGO'TECH INFORMATIQUE and we have organised one of the first PhD-consultant action implemented by Xavier Lacoste led by Pierre Ramet. ALGO'TECH is one of the most innovative SMEs (small and medium sized enterprises) in the field of cabling embedded systems, and more broadly, automatic devices. The main target of the project is to validate the possibility to use the sparse linear solvers of our team in the area of electromagnetic simulation tools developed by ALGO'TECH.

The **HIEPACS** members have organized the PATC training session on Parallel Linear algebra at "Maison de la simulation" in Saclay from March 26th to March 28th.

HIPERCOM2 Team

9.3. Popularization

- **the Inria-Industry meeting focusing on Telecommunications**, in Rocquencourt, November 2014. The HIPERCOM2 team was very active and presented demonstrations of Wireless Sensor Networks. The demonstration prepared by Erwan Livolant, Cédric Adjih, Ichrak Amdouni, Pascale Minet concerned the principles of wireless sensor networks, the energy-efficient routing protocol, the node coloring algorithm running in the OCARI network to maximize network lifetime. Tuan Dang from EDF presented the new OCARI platform. Maurice Sellin from DCNS explained the deployment of an OCARI network in a DCNS ship, the application supported is fire detection and OCARI sensor nodes are provided by ADWAVE.
- Nadjib Achir, Cédric Adjih, Hana Baccouch, Ichrak Amdouni, Erwan Livolant and Ridha Soua explained the principles of communication and routing in wireless sensor networks and organized several demonstrations for undergraduates and students who visited Inria in February 2014.

INDES Project-Team (section vide)

INFINE Team

9.3. Popularization

Aline Carneiro Viana:

- **Presentation at the "Futur en Seine" festival:** Title: *"Understanding human behavior for context- and content- networking"*, June 12, 2014.
- **Presentation at the ESSOURIAU High School at Ulis in the context of the Math week:** Title: *"Le smartphone, votre 6e sens ?"*, Mars 21, 2014.
- **Interview for the Interstices scientific magazine.**

Cédric Adjih, Emmanuel Baccelli, Oliver Hahm:

- **Demonstration of RIOT at CeBIT 2014**, the world's leading IT trade show.
- **Description of IoT-LAB, and test of IoT-LAB nodes at the IETF 6TiSCH plugfest** during IETF-89 in London.
- **Demonstration of RIOT on heterogeneous IoT hardware** At the IETF 6TiSCH plugfest during IETF-89 in London (https://bitbucket.org/6tisch/meetings/wiki/140306a_ietf89_london_plugfest).
- **Demonstration of IoT-LAB (Contiki RPL experiments)** at the **Bits-n-Bytes event of IETF-90** in Toronto.
- **Demonstration of RIOT (CCN - 6LoWPAN interoperating)** at the **Bits-n-Bytes event of IETF-90** in Toronto.
- **Demonstration of IoT-LAB** also at the **LLN plugfest** of the same IETF-90 in Toronto.
- **Demonstration of RIOT tsch functionalities with OpenWSN integration** at the **LLN plugfest** of the same IETF-90 in Toronto.

Oliver Hahm co-authored an article on RIOT and IoT device programming in the iX Developer magazine's 2014 special issue on Embedded Software. O. Hahm, C. Mehlis, M. Lenders, T. Eichinger, L. Ortmann, "Betriebssysteme für eingebettete Systeme im Internet der Dinge: Freie Fahrt für Experimentierfreudige," iX Developer Magazine, Special issue on Embedded Software, February 2014.

KerData Project-Team

9.3. Popularization

- Gabriel Antoniu
Microsoft Research, Redmond. Invited presentation at the Workshop on *E-Science in the Cloud*. Subject: Big Data management in the Cloud (A-Brain and Z-CloudFlow projects). Audience: engineers, students and researchers, from academia and industry (April 2014).
ORAP Forum. Invited Speaker. *Big Data: Concepts-clés et enjeux* (April 2014).
Radio France. Invited interview about Big Data at the *Labo des savoirs*. Available on line at <http://labodessavoirs.fr/chroniques-et-reportages/un-nouveau-paradigme/>.
Institut Français de Bio-informatique, Grand-Ouest, Rennes. Invited presentation at the *12e Rencontres des plates-formes de Bioinformatique du Grand Ouest* about the team's experience with the Microsoft Azure cloud platform (November 2014).
- Shadi Ibrahim
Parallel and Distributed Computing Centre (PDCC), Nanyang Technological University (NTU), Singapore. Invited seminar. Subject: *Consistency Management for Big Data Applications in the Clouds* (January 2014).
- Alexandru Costan
EIT ICT Labs, Rennes. Invited presentation at the Workshop on *Trusted Clouds* about *KerData Team: Scalable Data Management on Clouds and Beyond* (March 2014).
- Matthieu Dorier
Inria, Grenoble. Invited seminar about *Damaris: data management for scientific simulations on post-Petascale supercomputers* (June 2014).

MADYNES Project-Team (section vide)

MAESTRO Project-Team

9.3. Popularization

S. Alouf is a member of MASTIC, a commission in charge of popularization and regional and internal scientific animation (since November 2011).

MESCAL Project-Team

9.3. Popularization

- fête de la science: atelier sciences manuelles du numérique.
- MathC2+: sciences manuelles du numérique.
- Interventions dans des classes de seconde sur la simulation simcity.
- participation à l'IREM de Grenoble, groupe algorithmique.

MIMOVE Team

8.3. Popularization

- Benjamin Billet was invited to speak at a one-day Android tutorial event organized by the ARAMIS business network at Lyon.

MOAIS Project-Team (section vide)

MUSE Team (section vide)

MYRIADS Project-Team

7.3. Popularization

- Roberto-Gioacchino Cascella presented a demonstration of the VEP-S system at the EIT ICT Labs result day, Helsinki, Finland, December 2014.
- Christine Morin gave a talk entitled "Contrail Project Overview" at the Contrail Business Days, Roma, Italy, January 2014.
- Christine Morin was invited to give a talk on Myriads activities on cloud computing at the EIT ICT Labs meeting on future clouds, Rennes, France, March 2014.
- Christine Morin gave a talk entitled "Contrail: Interoperability and Dependability in a Cloud Federation" at the first workshop of the Joint Laboratory for Extreme Scale Computing, Sophia-Antipolis, France, June 2014.
- Christine Morin was invited to give a talk entitled "Contrail: Toward a Trusted Cloud Market Place" at the EIT ICT Labs Symposium on Future Cloud Computing, Rennes, France, June 2014.
- Christine Morin was invited to give a talk entitled "Contrail: Toward a Trusted Cloud Market Place" at the Inria Scientific Days, Lille, France, June 2014.
- Christine Morin gave an invited talk entitled "Snooze: A Scalable Energy-Efficient IaaS Cloud Management System" at the Next-GWiN 2014 Workshop, Rennes, France, October 2014.
- Christine Morin gave a talk entitled "Checkpointing as a Service in Heterogeneous Clouds" at the second workshop of the Joint Laboratory for Extreme Scale Computing, Chicago, USA, November 2014.
- Guillaume Pierre organized the 2nd ConPaaS workshop (Rennes, May 26th 2014) and gave the opening presentation
- Guillaume Pierre organized the EIT ICT Labs Future Cloud Symposium (Rennes, June 23-24th 2014).
- Anne-Cécile Orgerie gave a talk entitled "Green IT : maîtrise de la consommation énergétiques des équipements informatiques", at Rencontres de la recherche, Fondation Rennes 1, Rennes, September 19, 2014.
- Anne-Cécile Orgerie gave a talk entitled "Toward Energy-Efficient Cloud Computing" at the Inria-Technicolor Workshop, Rennes, December 4, 2014.
- Anne-Cécile Orgerie gave a tutorial entitled "Green Big Data Processing using Hadoop: An Introductory" with Shadi Ibrahim from KerData team, at the ACM/IFIP/USENIX Middleware conference, Bordeaux, December 2014.
- Arnab Sinha presented a demonstration of the VEP-S system at the EIT ICT Labs result day, Helsinki, Finland, December 2014.
- Cédric Tedeschi gave a talk about workflow activities within the DALHIS associate team at the Berkeley Inria Stanford workshop, Paris, June 2014.

PHOENIX Project-Team

8.3. Popularization

Various members of the Phoenix Inria project team participated in the following events:

- Charles Consel. "Presentation of the DomAssist project". Journée du Numérique organisé par Inria à l'Assemblée Nationale, Paris, France, January 21, 2014.
- Charles Consel. "Presentation of the DomAssist project". Journée de lancement de la Silver Economie Aquitaine, Bordeaux, France, February 17 2014.
- Loïc Caroux. "Des besoins de la personne âgée pour son maintien à domicile à la solution DomAssist". Semaine Nationale des Retraités et des Personnes Agées, Carbon-Blanc, France. October 2014.
- Loïc Caroux, Alexandre Spriet. "DomAssist : Plate-forme d'assistance domiciliaire pour la personne âgée et son aidant formel". Journée de la Santé Connectée en Aquitaine, Bordeaux, France. October 2014.
- Charles Consel, Hélène Sauzéon. "Assistance numérique pour compenser les déficiences cognitives à tous les âges de la vie". 2e Assises nationales de la médiation numérique : le numérique dans votre quotidien. October 16-17, 2014, Bordeaux.
- Lucile Dupuy. "Presentation of the DomAssist project". Fêtes de la science, Bordeaux, France, September-October 2014.
- Charles Fage. Production of a video-presentation of the School+ assistive platform with the Inria Communication Service. <http://vimeo.com/93262450>.

In addition to the following popularization actions, the DomAssist project has been presented during 2014 in two french newspapers (Sud Ouest, La Croix), and in one television report on France 3 TV.

RAP Project-Team (section vide)

REGAL Project-Team

8.3. Popularization

The team animated a stand on distributed algorithms at the 2014 edition of "Fête de la Science"

RMOD Project-Team

9.3. Popularization

- Marcus Denker gave two presentations about Pharo at the open source conference FOSDEM 2014.
- Damien Cassou gave a Pharo tutorial at PLDI'14.
- RIC Day was held 23 September 2014 @ University of Lille 1, Lille, Anne Etien and Damien Pollet gave a presentation about Pharo, Moose and software maintenance.
- A Programming Dojo was organized by Christophe Demarey on Dec 1st.
- A hands-on course about Pharo for the students at Lille in November organized by Léo Perard and Stéphane Ducasse.
- Demo for industry at the Rencontres Inria-Industrie *Technologies du Web*, 26 Nov 2014 at EuraTechnologies - Lille.
- RMOD co-organized and participated at ESUG 2014.
- Multiple public Pharo Sprints in Lille.
- Stefan Marr gave a half-day tutorial on “Building Self-Optimizing Interpreters with Truffle or RPython” at the Software Composition Group, Universität Bern, Switzerland, December 2nd, 2014
- Stefan Marr gave an invited talk on “Building High-Performance Language Implementations with Low Effort” at Software Composition Group, Universität Bern, Switzerland, December 1st, 2014
- Stefan Marr gave an invited talk on “Zero-Overhead Metaprogramming: Using Self-Optimizing Interpreters to Remove the Runtime Cost of Reflective Programming” at the Software Languages Lab, Vrije Universiteit Brussel, Belgium, November 2014
- Stefan Marr gave an invited talk “On the Way to Concurrency without Accidental Complexity” at the Institut für Systemsoftware, JKU University Linz, Austria, July 2014
- Stefan Marr gave an invited talk on “Building VMs for Language Designers” at the Software Development Team of Laurence Tratt, King’s College London, May 2014
- Stefan Marr gave a talk on “How to get a JIT Compiler for Free?” in the Smalltalk Developer Room of the FOSDEM Open Source Conference, Brussels, Belgium, February 2014

ROMA Team (section vide)

RUNTIME Team

9.3. Popularization

Brice GOGLIN is in charge of the diffusion of the scientific culture for the Inria Research Center of Bordeaux. He is also a member of the national Inria committee on Scientific Mediation. He gave numerous talks about high performance computing and research careers to general public audience and school student, as well as several radio and paper interviews about Inria's activities. He is also involved in the popularization of computer programming and robotics programming and gave several wide audience seminar on these topics.

Brice GOGLIN gave talks about Software releases and Source version control with GIT in internal Inria seminars.

Samuel THIBAUT gave a talk about the structure of Internet and questions of security at "Unithé ou Café"

Olivier AUMAGE gave a talk at Seminar Modeling, at the Maison de la Simulation on the StarPU Runtime System.

Runtime organized a 2-days PRACE Advanced Training Center session where several member of the team gave talks about programming heterogeneous parallel architectures with tools such as StarPU and hwloc.

SCALE Team

9.3. Popularization

- Françoise Baude is in charge since September 2011 of the set up and animation of an educational program *Cordées de la Réussite*. She leads as Polytech'Nice Sophia member, and in connection with MASTIC activities at Sophia-Antipolis, two *Cordées pour la Science à Sophia* groups (one with Lycée Vinci Antibes, the other with Lycée Tocqueville Grasse). Since 2013, she is in charge of the AVOSTII-STI2D program implementation for Polytech'Nice Sophia, requiring advertising high-school pupils for engineering studies, in particular in ICT.
As ICT Labs Master School University of Nice Sophia-Antipolis coordinator, she is in charge of publicizing, orchestrating, and reporting about all the ICT Labs master programmes involvement of UNS (Internet and Technology Architecture, and Data Science programmes); and as part of the *Paris Node comité de pilotage*, to follow French activities within ICT Labs, and report about UNS activities within this KIC. Overall this mission required about two full-time months of work in 2014.
- Fabrice Huet is in charge, since 2011, of the *Informatiques et Sciences du Numérique* courses for the academia of Nice. These courses are offered to high school teachers who volunteer to offer a Computer Science option to their students. He has also given seminars in high school during the *Fête de la Science*.

SOCRATE Project-Team (section vide)

SPIRALS Team

9.3. Popularization

Lionel Seinturier has participated in October to the event Chercheur itinérant organized by the Inria Lille Nord Europe research center in the context of La Fête de la science. Two classes (3ème and 1ère) have been visited. The theme of the visit was crowdsensing and data gathering from mobile devices.

Walter Rudametkin has given some demonstrations at two major open source events: the Open World Forum in October in Paris, and Fossa in November in Rennes.

Loïc Huertas and **Maxime Colmant** have presented in November the PowerAPI software library (see Section 5.3) at the [GreenCodeLab](#) that is a challenge for the design of sustainable software

Loïc Huertas has given a demonstration of the PowerAPI software library (see Section 5.3) at the RIC day in September. The event targets students from computer science master programs and engineering schools.

The team has participated to three Inria organized events in relation with the industry: in January in Rennes for the Imatch event with the software industry (Clément Quinton, Loïc Huertas, Philippe Merle, Romain Rouvoy, Christophe Ribeiro, Daniel Romero Acero, Lionel Seinturier), in November in Rocquencourt for the RII Telecom du futur (Christophe Ribeiro), in November in Lille for the RII Web technologies (Philippe Merle, Christophe Ribeiro, Romain Rouvoy).

TACOMA Team (section vide)

TYREX Project-Team

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 cultural heritage tour of Grenoble City with content produced by 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).

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

8.3.1. Institutional commitment:

C. Roisin 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 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.

URBANET Team

9.3. Popularization

- Hervé Rivano gave a popularization talk for ISN teachers on smart cities and wireless networking issues in June 2014.
- Razvan Stanica gave an invited talk, titled *Data Collection and Analysis using Mobile Phone Sensors*, in the wireless sensor network training organized for industrial partners at the Ecole Polytechnique de Yaoundé in June 2014.
- Fabrice Valois gave an invited talk, titled *Introduction to Wireless Sensor Networks*, in the wireless sensor network training organized for industrial partners at the Ecole Polytechnique de Yaoundé in June 2014.

WHISPER Team

9.3. Popularization

Julia Lawall presented a tutorial on Coccinelle at ENS (Masters students), the IT University of Copenhagen (PhD students), at the Suse Labs conference (developers), at LinuxCon Europe (developers), and at Middleware (PhD students and researchers).

ALICE Project-Team

8.3. Popularization

- Bruno Lévy animates “initiation to computer programming”, 1h each Friday evening (10 kids, 7 to 12 years old).
- Members of the team participate each year to “science fair” events, scientific demos, conferences for the general audience.
- Sylvain Lefebvre is a member of the scientific mediation committee of the centre Inria Nancy Grand-Est.

ALPAGE Project-Team

9.3. Popularization

- Éric Villemonte de La Clergerie has presented some simple NLP tasks at the ISN day (for Math teachers, computer science option, April 8th, http://euler.ac-versailles.fr/webMathematica/reflexionpro/2013_2014/Seminaire/eric_de_la_clergerie.pdf)
- Éric Villemonte de La Clergerie has presented a survey on the use on NLP tools for MOOCs at the Moolab day on “Moocs : de la correction automatique à la personnalisation des cursus” (Paris, January 14th)

AVIZ Project-Team

9.3. Popularization

- Pierre Dragicevic and Yvonne Jansen are curating an online [List of Physical Visualizations and Related Artefacts](#) with now 180+ entries.
- Benjamin Bach is curating an online [List of Temporal Visualizations based on Space-Time cube visualizations](#).
- Benjamin Bach is maintaining a [Webpage](#) describing the efforts of the Microsoft Research-Inria Joint Research Center on visualizing functional brain connectivity.
- Jeremy Boy and Jean-Daniel Fekete developed a [Series of Visualizations for the People](#).
- Jeremy Boy: [CO2: La carte de la pollution mondiale](#), Mediapart data-journalism article.
- Jeremy Boy: [Les diplômés, est-ce que ça paye?](#), Mediapart data-journalism article.
- Jeremy Boy: [Le poids du nucléaire dans le monde](#), Mediapart data-journalism article.
- Jeremy Boy, Samuel Huron, and Jean-Daniel Fekete organized a workshop on Data Visualization at Futur En Seine 2104, Paris, France.

AYIN Team

8.3. Popularization

- Aurélie Boisbunon is the representative of PhD students and postdocs at the Mediation and Animation commission (MASTIC) of Inria Sophia Antipolis.
- Aurélie Boisbunon gave talks about machine learning and image processing to high school students and junior high school students for the MathsC2+ training course and for the Fête de la Science 2014.
- Aurélie Boisbunon is participating in a project with junior high school students from Collège Nucéra, in Nice, aiming at giving an introduction to programming and robotics.
- Josiane Zerubia gave a talk on aerial and satellite image processing to high school students in Physics at Valbonne International Center during the “Fête de la Science 2014.”
- Josiane Zerubia presented Inria and Inria-SAM to interested PhD and post-doc students at Inria booth during ICIP’14 in Paris as well as Mc Master University in Canada, University of Szeged and MTA SZTAKI in Hungary.
- Josiane Zerubia is organizing a monthly scientific seminar at Inria-SAM with national and international speakers (see <https://team.inria.fr/ayin/ayinseminars/>).

DAHU Project-Team

9.3. Popularization

Serge Abiteboul participated in 2014 to the following reports of the Conseil national du numérique: Digital education (Jules Ferry 3.0, Bâtir une école créative et juste dans un monde numérique) and Platform neutrality (Neutralité des plateformes)

Serge Abiteboul started in 2014 a Blog invited by Le monde newspaper: <http://binaire.blog.lemonde.fr>

Serge Abiteboul coordinated the production of a report on Education to Big data [23].

Serge Abiteboul was audited on the Digital Risk by Office Parlementaire d'Évaluation des Choix Scientifiques et Technologiques.

Serge Abiteboul was interviewed on radio notably by: La Matinale d'Europe 1, BFM Business, Radio Campus, Autour de la question, RFI. He had articles notably in: Le monde, Fenêtres sur Cours, Sciences et Avenir, Le Parisien Magazine. He gave talks to Cap digital, Assises Médias Entreprises, Conférence Idées, Université d'été de l'Institut des Actuaire, 10 ans de la Fondation Steri, Orange Labs, Google.

DREAM Project-Team

9.3. Popularization

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

E-MOTION Project-Team (section vide)

EXMO Project-Team

8.3. Popularization

- Jérôme Euzenat gave a talk to the Canopé network conference cycle on “Communication et adaptation: la fabrique de la communication flexible (communication and adaptation: the making of flexible communication), CROP, Grenoble (FR), 2/04/2014.
- Jérôme Euzenat gave a talk to the 7es journées de l’interopérabilité des applications d’entreprise (JIAE) on “Aligner les ontologies pour communiquer (matching ontologies to communicate)”, Saint-Étienne (FR), 16/05/2014.
- Jérôme David participates to the working group “Créer et maintenir une interconnexion sémantique des grands référentiels culturels: le "Graphe Culture"” of the ministry of Culture. <http://cblog.culture.fr/projet/2013/11/07/groupe-de-travail-metadonnees-culturelles/>

FLOWERS Project-Team

9.3. 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. 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>

PY Oudeyer gave a TedX talk in Cannes, explaining open-source developmental robotics, <https://www.youtube.com/watch?v=x-yt-ts=1421828030&x-yt-cl=84411374&v=AP8i435ztwE>

PY Oudeyer gave several interviews in the general press (e.g. Le Monde, Les Echos, Sciences et Avenir) to explain societal issues of robotics, <http://www.pyoudeyer.com/press/>

PY Oudeyer wrote three popular science articles to explain societal issues of robotics:

- "What can we learn about development from baby robot" <http://www.pyoudeyer.com/WhatDoWeLearnFromBabyRobotsOudeyer2015.pdf>
- Oudeyer, P-Y. (2014) Robotique: les grands défis à venir, Futuribles, Mars 2014 <http://www.pyoudeyer.com/PYOudeyerRobotFuturibles14.pdf>.
- Oudeyer, P-Y. (2014) Des abeilles aux sources de la parole, in Breve de Maths, Mathématiques pour la planète terre, Nouveau monde editions, <http://www.breves-de-maths.fr/des-abeilles-aux-sources-de-la-parole/>.

06/02/2014 : "Developmental Robotics - Learning objects by interaction", David Filliat, Invited conference, Institut Bull, Réunion du groupe de réflexion CEM "Cerveaux et machines"

6-8/02/2014 : Aquitec, Yoan Mollard presented the Poppy platform to students and visitors

18-20/03/2014 : Innorobo 2014, Yoan Mollard and Steve N'guyen presentend the projects Poppy and 3rd hand

11/04/2014 : "Semantic Mapping", David Filliat, Invited Conference, Laboratoire Imagine, Ecole Nationale Supérieure des Ponts et Chaussées

20-22/06/2014: Poppy has been presented in the Paris Makerfair and obtained a "maker of merit" award.

2-8/07/2014: Demonstrations of Poppy took place at the FAB10 conference in Barcelona, the biggest conference about the maker revolution. Poppy was among the ten finalists for the Fablab award.

4-5/09/2014: Clement Moulin-Frier, Steve N'Guyen and Pierre Rouanet participated to a Hackathon in "cité des sciences" about programming the Poppy humanoid platform.

11/10/2014: Robotics animations for the "Fete de la science" at ENSTA ParisTech,

17/10/2014 : "Robots and Social Interaction Decisions - Developmental robotics", David Filliat, Invited presentation for the ITechLaw 2014 conference.

25-28/10/2014: Clement Moulin-Frier and Pierre Rouanet presented the Poppy platform and the associated libraries - pypot and explauto - to the PyConFR2014 conference and organised of a Hackathon.

19-21/11/2014: Clement Moulin-Frier, Nicolas Rabault, and Pierre Rouanet presented the Poppy platform to the fossa 2014 conference.

10/12/2014: Robotics demonstration for "Science Break" organised by Diagonale Paris Saclay : <http://sciencebreak.ladiagonale-paris-saclay.fr>

Clément Moulin-Frier contributed to a scientific diffusion paper in the French journal *Biofutur* about the use of robotics in the study of language evolution and acquisition: <http://www.biofutur.com/anciens-numeros>. <https://hal.archives-ouvertes.fr/hal-01100048>

Fabien Benureau supervised two students in 3rd year of the Cognitive Science major at the University of Bordeaux on their TER project. The project used Poppy, exploring how the attitude towards robots influences how humans recognise the emotion they try to express. Poppy having no facial expression — or face — yet, the students expressed the five expressions they selected (anger, surprise, joy, sadness, disgust) with body movements alone. They videotaped the sequences of movements (videos are available here http://python.sm.u-bordeaux2.fr/ter/2014/sc/desprez-zerdoumi/?page_id=289) and created an experiment asking volunteers to guess which emotion was displayed. The form also included the Negative Attitude towards Robots Scale (NARS), to investigate the possible correlation between fear of robot and the ability to identify their emotional attitude. The results showed no correlation between the two, although it was admitted that the experiment would have to be improved and ran again before any conclusion could be made.

GRAPHIK Project-Team (section vide)

HEPHAISTOS Team

8.3. Popularization

- M. Gautier has participated to the Fête de la science CIV, to the Carrefour des métiers Nice and has proposed a programming initiation to a 6ème class in view of the participation to the Junior Robotics Pobot Cup.
- Y.Papegay is actively participating to the Math.en.Jeans initiative for Mathematics teaching for undergraduate students.
- we extensively us the MARIONET-SCHOOL robots for pedagogy and teaching at all level.
- J-P. Merlet has given several national newspapers and TV interviews

HYBRID Project-Team

9.3. Popularization

- Massive media coverage of the “Mind-Mirror” system : following a press conference and press release organized in May 2014. This ended up with numerous appearances in the media (TV, Press, Radio).
- Other regular and numerous appearances of the team results and activity at: French TV (e.g., France5, France 3, France 2) or newspapers and journals (e.g., articles in "Archeologia" (Feb 2014) and "Science et Avenir" (Aug 2014) on "Virtual Reality and Archaeology").
- "Journées Science et Musique" 2014 (Rennes, Oct 2014) : organization of this event, and presentation of several demos of the team in Immersia room, Rennes.
- "Journée Nationales d'Archéologie" 2014 (Rennes, June 2014) : organization of this event, and presentation of several demos, Rennes.
- Participation at "Forum Libération" (Rennes, April 2014) : presentation of Anatole Lécuyer.
- Participation at "LE WEB 2014" Conference (Paris, Dec 2014) : demos of the FLYVIZ system.

IMAGINE Project-Team

9.3. Popularization

Damien Rohmer published an article on volume preserving deformation in Quadrature Journal [41]. This journal is accessible for University students and teachers.

IN-SITU Project-Team

8.3. Popularization

- “*L’homme doit contrôler l’ordinateur, pas l’inverse*”, Interview on Arte Television Future Mag, February 2014: Wendy Mackay <http://www.futuremag.fr/interview-integrale/lunettes-connectees-interview-avec-wendy-mackay>
- “*Quid sit musicus*”, World premiere at IRCAM on June 18, 2014 of the piece composed and directed by Philippe Leroux: Jérémie Garcia designed and developed technology and tools used in the composition and performance of the piece.
- “*PaperTonnetz*” and “*Dessines moi un paysage*”, Public Exhibition at Futur-en-Seine festival, June 2014: Jérémie Garcia. The demonstration was covered by the online news site 01net.com.
- “*L’être humain au coeur de la recherche en IHM*”, SIF Blog, Le Monde, July 2014: Interview of Wendy Mackay by Serge Abiteboul and Claire Mathieu.
- “*Interfaces de demain, la fin du tactile ?*”, conference at Université du Temps Libre Essonne, December 2014: Michel Beaudouin-Lafon.
- Scientific committee of the S-Cube association (Scientipole-Savoirs-Société) on the Saclay campus for an exhibit on the brain: Michel Beaudouin-Lafon (2013-2014).

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, 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 and François Pasteau gave a press conference in December 2014, organized at Pôle Saint Hélier (Rennes)
- Marie Babel gave a talk on "A driving assistance solution" in October 2014, during the "Semaine des Télécoms - Robotique et objets connectés" organised at Insa Rennes
- Fabien Spindler is a member of the editorial board of "Ouest Inria", the internal journal at Inria Rennes-Bretagne Atlantique.

LEAR Project-Team

9.5. Popularization

- Zaid Harchaoui and Martin Jaggi published in the Mathematical Optimization Society newsletter “Optima” an interview of Marguerite Frank, co-inventor of the Frank-Wolfe algorithm for constrained optimization, with a companion historical survey.
- Julien Mairal, Francis Bach, and Jean Ponce have published a monograph [24] “Sparse Modeling for Image and Vision Processing”, to appear in Foundations and Trends in Computer Graphics and Vision.
- Together with other students in LJK, Mattis Paulin did an interview of Emmanuel Candes for his award of the Prix Jean Kuntzmann in June 2014. The interview will soon be published in Journal du CNRS.

LINKMEDIA Project-Team

9.4. Popularization

Laurent Amsaleg. Lettre d'information Émergence, issue 32, 11/07/2014, "Un outil pour fouiller plus vite les disques durs saisis".

Laurent Amsaleg. Sciences Ouest, issue 324, October 2014, "Ils repèrent les contenus illicites".

Vincent Claveau co-organized and co-animated a round table held during the TALN conference about the evolution of NLP, from the points of view of education, research and industry.

Hervé Jégou was invited panelist at Intl. Conf. on Multimedia Retrieval, April 2014.

Hervé Jégou gave an invited tutorial on large-scale image search at Intl. Conf. on Multimedia Retrieval, April 2014.

Hervé Jégou gave a tutorial on efficient matching at Conf. on Computer Vision and Pattern Recognition, June 2014.

Hervé Jégou was invited speaker at Conf. on Computer Vision and Pattern Recognition, June 2014.

Pascale Sébillot: Invited speaker (3h) NLP tackling large volumes of potentially damaged textual data: what is different?, IST Inria seminar on "Big data: new information partitions", October 2014.

LINKS Team

8.3. Popularization

The team has participated at “Journée RIC “ of University Lille 1. In particular, Angela Bonifati, Radu Ciucianu and Tom Sebastian presented two demonstrations related to and X-Fun.

MAGNET Team

9.3. Popularization

MARC TOMMASI was invited to give seminars at (i) Inria Rennes and (ii) LiX Colloquium on data science.

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

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. He also serves as the academic referent of an IREM⁰ 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.

⁰Institut de Recherche sur l'Enseignement des Mathématiques - *Research Institute for Teaching Mathematics*

MAIA Project-Team

9.3. Popularization

- Nazim Fatès was the president of the Jury of the *Festival du film de chercheur*, see: an article in the [Eureka magazine](#)
- Vincent Thomas participated in “Journée ISN-EPI” (Apr. 17 2014) whose audience is computer science teachers of secondary school by organizing a workshop on “artificial intelligence and games”. Vincent Thomas is participating in the LORIA IDEES group dedicated to teaching activities.
- Vincent Thomas previously organized an exposition about game design and cognitive sciences. The materiel of the exposition was presented this year in several BU (Biliotheques universitaires) including IUT Charlemagne BU, Campus Medecine BU and Campus Brabois BU. This exposition is planned to be presented in other libraries in 2015 (Epinal, St Die).
- Vincent Thomas is participating in “Exporoute” meetings organized by Inria. The aim of these mettings is to create the content of a mobile scientific exposition about computer science in general. This exposition is planned to be held in 2017.
- Vincent Thomas participated in “[la nuit des chercheurs](#)” (Sep. 26 2014, Metz) and “[ARTEM fête la science](#)” during “Fête de la Science” (Oct. 18 2014, Nancy) by organizing discussions on video games, artificial intelligence and the links between those two domains.

MANAO Project-Team (section vide)

MAVERICK Project-Team

7.3. Popularization

Every year, “MobiNet” (see section 4.5) 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 (section vide)

MINT Project-Team

9.3. Popularization

- Fête de la science (October), “chercheurs itinérants”: Jonathan Aceituno, Fanny Chevalier, Alix Goguey, Damien Marchal, Hanaë Rateau, Nicolas Roussel, Laurent Grisoni
- “30 minutes de science” (September): Fanny Chevalier
- Guest of the *Place de la toile* France Cultures radio program (March): Nicolas Roussel
- technical advising of “zoomachines” week-end (imaginarium, Tourcoing, nov. 2014): Laurent Grisoni

MORPHEO Project-Team

9.3. Popularization

- Franck Hétroy-Wheeler gave a talk to high school math teachers entitled: “Digital geometry: from real to virtual worlds”. This talk has then been adapted and given to a 11th grade class.

MULTISPEECH Team

9.3. Popularization

Panelist at a public meeting of the SAILOR consortium on the topic of “Imagining new places to live”, University of Lorraine, April 2014 (E. Vincent).

Demonstration at Journée Sciences et Musique, IRISA Rennes, October 2014 (N. Souviraà-Labastie, E. Vincent).

Vulgarization of music signal processing at Inria to students of the Lycée Loritz, June 2014 (Y. Laprie, A. Liutkus)

OAK Project-Team

8.3. Popularization

At the International Conference on Database Systems for Advanced Applications (DASFAA 2014), B. Cautis gave a lecture for the local Indonesian students, on “Searching the Social Web”.

ORPAILLEUR Project-Team (section vide)

PANAMA Project-Team

9.3. Popularization

9.3.1. *Journée science et musique*

Participants: Anaik Olivero, Jules Espiau de Lamaestre, Pierre Machart, Gilles Puy, Nancy Bertin, Frédéric Bimbot, Rémi Gribonval, Corentin Guichaoua, Srdan Kitic, Stéphanie Lemaile, Nicolas Keriven, Ewen Camberlein, Romain Lebarbenchon, Luc Le Magoarou, Nathan Souviraà -Labastie.

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 2014 hosted 260 visitors.

9.3.2. *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 accepted by the journal "Pour la Science" for publication in 2015.

Nancy Bertin, Jules Espiau and Rémi Gribonval (with L. Daudet, A. Bordenave and Inria audiovisual department) participated in the realization of a pedagogical video presenting the ANR ECHANGE project results on acoustic holography <http://videotheque.inria.fr/videotheque/embed/25816>.

Jules Espiau and Pierre Machart were interviewed in a one-hour scientific radio show on Radio Prune (radio of the Nantes region) at the occasion of the "Journée Science et Musique".

PERCEPTION Project-Team (section vide)

POTIOC Project-Team

9.3. Popularization

Popularization talks

- Presentation about Inria to High School Students during Aquitec, January (C. Jeunet)
- Presentation about Cognitive Sciences and Inria to High School Students at a local high school, March (C. Jeunet)
- Tangible and Gestural Interaction Forum (<http://fitg.lille.inria.fr/>), presentation (20mins) in Tourcoing, France, May 14th (J. Laviolle)
- Talk about Brain Computer Interfaces at "Café de la Connaissance", May (A. Cellard and C. Jeunet)
- New European Media Summit, Brussels, Belgium , September 30th (J. Laviolle, F. Lotte)
- Presentation on "How to design the computers of the future" and speedmeeting during "Filles et mathématiques: une équation lumineuse" (event to raise interest in mathematics in female high school students), University Toulouse, December 10th (A. Brock)

PRIMA Project-Team

8.3. Popularization

- James Crowley participated in the Radio emission Science Publique presented by Michel Alberganti on Radio France Culture on Friday 21 February from 14h00 to 15h00. Theme of the program: "Should we fear intelligent robots?"
- Patrick Reignier was interviewed by a journalist of Science et Vie for a paper on Artificial Intelligence

REVES Project-Team

9.3. Popularization

9.3.1. Popularization, Invited Talks

- We participated in the VERVE workshop on virtual reality technologies for ageing, which took place at the Institut Claude Pompidou on Nov. 6th. Over 200 participants (patients, families and caregivers) visited during this day. George Drettakis gave a short interview on our research for local television.
- Adrien Bousseau presented his work on sketch-based modeling at Lycée de Vence during the Fête de la science 2014. He also participated to a “cafe science” during the Semaine du Cerveau event in Marseille.
- Adrien Bousseau gave an invited talk at the Amadeus Global Technical Forum, December 2014.
- Adrien Bousseau and George Drettalis gave invited talks at UC Berkeley in the context of the associate team CRISP.

9.3.2. Demos

We gave demos to companies visiting the site, often including presentations in the immersive space: Visteon, Optis. We also gave demos and presentations at the Mediterranean Days event, to university and high school students (“stages 3eme”), as well as representatives from the Sustainable Design School in Nice.

RITS Team

9.3. Popularization

Several members of the team have participated in:

- The exhibition Futur-en-Seine (June 12-22 2014).
- The final Demonstration of Link & Go Project: Automated driving functionalities and SLAM, September 2014 at Magny les Hameaux, France.
- Showcase of CityMobil2: Autonomous maneuver in urban scenarios. September 2014, at Leon, Spain.
- Showcase of CATS project: Autonomous functionalities. October 2014, at Ploiesti, Rumania.
- Large-scale demonstration of automated transport of CityMobil2, December 2014, at La Rochelle.

SEMAGRAMME Project-Team

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*.
- Maxime Amblard gave an interview for the *journal du CNRS* about Real Humans (a television drama series), may 2014.
- Maxime Amblard has participate to a television report about the SLAM project for *France 3 Lorraine*, may 2014.
- Maxime Amblard wrote an article about the SLAM project for the *Journal du CNRS*, january 2014.
- In November, Bruno Guillaume has demonstrated the prototype ZombiLingo and Jiří Maršík the ACGTK graphical output during the “Forum Sciences Cognitive” in Nancy.
- Jiří Maršík has participated to the regional final of the competition *Ma thèse en 180 secondes*.
- Jiří Maršík gave a talk to high school students at the Summer Camp of Mathematics and Physics (Letní matematicko-fyzikální soustředění) about treating words as fractions and algebraic expression where syntacticality is verified by cancelling out, Faculty of Mathematics and Physics of the Charles University (Matematicko-fyzikální fakulta Univerzity Karlovy).

SIROCCO Project-Team

9.4. Popularization

- A. Roumy participated in the in-service training for teacher in Computer Science (Informatique et Science du Numérique (ISN), level bac -1 to bac+2) and gave a 3h course on video and image compression.
- As part of a seminar dedicated to teachers of secondary and preparatory schools, Laurent Guillo presented a possible use of Agility methods for pupils' projects and he animated the related workshop, ENS Rennes, October 2014.

SMIS Project-Team

9.3. Popularization

- "Les enjeux du Big Data", TV interview of P. Pucheral, Future-Mag, Arte, September 20th, 2014.
- Tutorial on experimental methodology at the BDA summer school 2014 "Masses de données distribuées". L. Bouganim
- Tutorial on managing personal data with strong privacy guarantees at EDBT 2014 [18].
- Présentation invitée au Lycée Albert Einstein sur 'Minimum Exposure', Sainte-Geneviève-des-Bois, Apr. 2014, B. Nguyen.
- Séminaire en deux parties à Luminy, pour les enseignants de CPGE sur 'les bases de données en CPGE, programme officiel et aspects transactionnels', Marseille, 2014-04-22, B. Nguyen.
- Présentation invitée aux journées "La Science Informatique pour tous les lycéens", à Rocquencourt, Apr. 2014, B. Nguyen.
- Le droit à l'oubli numérique, table ronde, Colloque 'La protection des données personnelles : approche pluridisciplinaire', Paris, Dec. 2014, B. Nguyen.
- 'Représenter et interroger efficacement de grands volumes de données : une introduction aux bases de données relationnelles', olympiades de mathématiques, Paris, May 2014, B. Nguyen
- 'Comment garantir la confidentialité des données médicales ?', Envirorisk, Atelier risques numériques, Nov. 2014. Chairman: B. Nguyen (Inria). Speakers : N. Anciaux (Inria), C. F. Viala (YesProfile).
- 'Garantir la confidentialité des données personnelles', Futur en Seine, Rencontres Inria-Industries, June 2014, N. Anciaux.
- 'Vers un modèle de gestion des données respectueux de la vie privée : application à la collecte limitée d'informations personnelles', IREP "BIG DATA" Seminar, May 2014, N. Anciaux.
- 'Les patients dans l'écosystème de santé - Enjeux d'information et questions de communication', International Seminar organized by the "Institut des sciences de la communication CNRS" with the participation of the "Groupe de réflexion avec les associations de malades (GRAM Inserm)", Dec. 2014, N. Anciaux et P. Pucheral.
- 'La protection des données personnelles - approche pluridisciplinaire', Seminar organized by the Digital Society Institute (ISN), Dec. 2014, N. Anciaux and P. Pucheral
- 'Démonstration du Dossier Médico-Social Portable et sécurisé', Rencontres Inria Industrie, Télécoms du futur, Nov. 2014, Q. Lefebvre and N. Anciaux.
- 'Table ronde : Sécurité des Réseaux et Contenus', Rencontres Inria Industrie, Télécoms du futur, Nov. 2014, L. Bouganim

STARS Project-Team

9.3. Popularization

François Brémond was invited to give a talk at Conférence des métiers at International Lycée (CIV) in Sophia 27 January 2014.

François Brémond was interviewed by Nice Matin on CoBTeK and Alzheimer issues, Opening of ICP, 10 March 2014.

François Brémond was interviewed by Monaco TV on MONAA and Autism issues, 12 March 2014.

François Brémond has participated to the ERCIM News 98 -Special theme: Smart Cities, July, 2014.

Guillaume Charpiat was part of the popularization MASTIC committee.

TITANE Project-Team (section vide)

WILLOW Project-Team (section vide)

WIMMICS Project-Team

9.3. Popularization

Fabien Gandon

Meeting Inria-Industry *Technologies du Web : ce réseau de ressources numériques mondial*⁰, Lille.

Amadeus QLM Staff Briefing keynote, *Semantic Web*, February 14th.

Invited speaker on *Quel avenir pour le Web ?* in the cycle of conferences *Les enjeux du Web 3.0 dans le secteur culturel* - Ministry of Culture and Inria.

Scientific days at Inria : *Relations between Inria and W3C* and *Presentation of LabCom SMILK*.

⁰<http://www.inria.fr/centre/lille/innovation/rii/rii-technologies-du-web/presentation>

ZENITH Project-Team

9.3. 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.

F. Masegla has coordinated a national network of colleagues for promoting code learning. This action has given the "KidEtCode" studios of Inria, and the involved colleagues have benefited from two training sessions on the subject. After some successful organizations of studios by colleagues in the network, F. Masegla has written a series of interviews where they give a feedback on "howto" set up a KidEtCode studio, find partners and provide relevant content.

F. Masegla 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. In <http://binaire.blog.lemonde.fr/2014/11/14/comment-semer-quelques-graines-de-sciences>, we give our point of view on how helping teachers to bring computer sciences in their classroom is more than feasible.

Following this autumn school for teachers, "La main à la pâte" is now working with Inria (Gilles Dowek, Pierre-Yves Oudeyer, Florent Masegla and Didier Roy), "France-IOI" and the University of Lorraine in order to write a school book on computer science teaching.

Zenith participated to the following events in Montpellier, and therefore participated in the effort of relaunching science popularization activities in Montpellier:

- F. Masegla co-organized and co-animated the Inria's stand at "La fête de la science" (Montpellier), held by Genopolys (a science village).
- F. Masegla 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 media libraries activity leaders. The goal is to accompany media libraries in the region of Montpellier and help them until they are autonomous in this activity.

F. Masegla is a member of the steering 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 participated to the two days training sessions on "science popularization" given by Claude Vadel in Paris, on Dec. 4 and 5, 2014.

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 Lirmm Laboratory.

A. Joly presented the PI@ntNet project and the associated iPhone app in several events including "Futur en Seine 2014" where it received the price of collaborative research, "les rencontres Inria/industries" , "LeWeb 2014", etc. Many news media articles, blogs, TV news and twitts also reported on PI@ntNet (typing "PI@ntNet" on Google is the best way to get most of them).

P. Valduriez gave a talk on "Cloud Big Data" at Université du Tiers Temps, Montpellier.