Activity Report 2016

Section Popularization

Edition: 2017-08-25
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ABS Project-Team

8.3. Popularization

8.3.1. Dissemination of scientific culture

Participant: Dorian Mazauric, member of the group of Médiation et Animation des MATHématiques, des Sciences et Techniques Informatiques et des Communications (MASTIC), Inria Sophia Antipolis - Méditerranée.

8.3.1.1. Publications and resources.

- 2016. Graphes et Algorithmes – Jeux grandeur nature. Dorian Mazauric, in collaboration with Laurent Giauffret, Direction des Services Départementaux de l'Éducation Nationale (DSDEN) des Alpes-Maritimes. [https://hal.inria.fr/hal-01366804]
- 2016. Graphes et Algorithmes - Diffusion de l'information scientifique. Dorian Mazauric. [https://hal.inria.fr/hal-01383665]

8.3.1.2. Fête de la Science en PACA.


8.3.1.3. Stage MathC2+ à Inria Sophia Antipolis - Méditerranée.


8.3.1.4. Interventions à l’ÉSPÉ de l’Académie de Nice.


8.3.1.5. Formations pour les enseignants en collaboration avec la DSDEN des Alpes-Maritimes.

8.3.1.6. Conférences dans des lycées dans le cadre du dispositif régional "Science Culture".

- 21/01/2016. Conférence au lycée Amiral de Grasse (classes de terminale). a) Pas besoin de réfléchir, les ordinateurs calculent tellement vite ? Théorie des graphes et algorithmique pour les réseaux. b) La magie des graphes et du binaire.

8.3.1.7. Conférences dans des collèges des Alpes-Maritimes.


8.3.1.8. Conférences dans des écoles primaires des Alpes-Maritimes dans le cadre d’ASTEP.

- 22/03/2016. Conférence à l’école élémentaire de La Tournière, Antibes (classe de CE2). La magie des graphes et du binaire, algorithmes et jeux (algorithmes grandeur nature pour trier, jeux combinatoires...).
- 18/03/2016. Conférence à l’école élémentaire Langevin 2, Vallauris (classe de CP). La magie des graphes et du binaire, algorithmes et jeux (algorithmes grandeur nature pour trier, jeux combinatoires...).

8.3.1.9. Autres présentations.

- 05/01/2016. Présentation à des lycéens d’Australie et de Nouvelle-Zélande (classes de secondes) à Inria Sophia Antipolis - Méditerranée. La magie des graphes et du binaire.
ACUMES Project-Team (section vide)
AIRSEA Project-Team

10.3. Popularization

E. Blayo gave several outreach talks, in particular for middle school and high school students, and for more general audiences.


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 50 teachers of primary and 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.

M. Nodet and E. Arnaud co-organises a year-round weekly math club in two secondary schools, where pupils research open mathematical problems.

M. Nodet is a member of "les Emulateurs", a group of Grenoble Univ. professors meeting once a month around the subjects of innovative pedagogy and its applications to universities.

M. Nodet takes part in a maths club "Math en Jeans" involving two secondary schools around Grenoble.

M. Nodet takes part in training modelling in mathematics to secondary school maths teachers through the regional "Maison pour la Science" and is also in charge of an IREM group about building interdisciplinary projects for secondary school classes.

Podcast Interstices Clémentine Prieur’s interview https://interstices.info/jcms/p_86521/mieux-modeliser-le-climat-grace-aux-statistiques
ALICE Project-Team

9.3. Popularization

Sylvain Lefebvre participated in the 2016 science festival (stand and general public conference), and gave a presentation in front of an industrial public in an event organized by Fondation Charles Hermite.
ALPAGE Project-Team

9.3. Popularization

- Timothée Bernard has welcomed two high school students at Alpage during 4 days, in the framework of the “Science Académie” of the “Paris-Montagne” association.
10.3. Popularization

- 2 Conferences on being a mathematicien: Applied Mathematics, Research..., in the high school Viollet le Duc - Villiers-Saint-Frédéric, France for 200 high school students in 11th and 12th grade, april 2016.
- Part of the teaching duty of Xavier Claeys (around 70 hours total) has been dedicated to "orientation and insertion professionnelle". This has consisted in familiarizing young students (2nd year bachelor) with potential curricula, professionnel activities and networks related to mathematics.
AMIB Project-Team

7.3. Popularization

Afaf Saaidi participated to the Ma thèse en trois minute contest, and won the best poster award at the Journées de l’école doctoral Interfaces of Paris Saclay University.
ANGE Project-Team

10.3. Popularization

March E. Audusse intervened in a middle school on the occasion of the French week of Maths. J. Salomon went to a high school at Limay.

May N. Aïssiouene, E. Audusse, E. Godlewski (organiser), Y. Penel and F. Wahl ran a stand on the occasion of the “salon de la culture et des jeux mathématiques”.

July M. Parisot gave a vulgarisation talk at Inria (“demi-heure de la science”).

October E. Audusse intervened in a high school on the occasion of Savantes Banlieues.

November E. Nayir, Y. Penel and F. Wahl ran a stand during the ONISEP exhibition.

December E. Godlewski managed a group of middle school students at the Jacques-Louis Lions lab.

December F. Wahl helped the organisation at the “Math. Employment” show.


A. Mangeney is coaching high-school students from disadvantaged areas to manage scientific projects.
ANJA Team (section vide)
ANTIQUE Project-Team (section vide)
AOSTE Project-Team

9.3. Popularization

Liliana Cucu-Grosjean has supervised the video production of a popularization video regarding the outcomes of the PROXIMA project. The video has been made available on Inria channels and all PROXIMA partners.
APICS Project-Team

8.3. Popularization

- M. Olivi is responsible for Scientific Mediation and president of the Committee MASTIC (Commission d’Animation et de Médiation Scientifique) [https://project.inria.fr/mastic/](https://project.inria.fr/mastic/). She animated two half-day workshop sessions “activités débranchées” at “l’ESPE de Nice” for primary school students (March 08 & 15), 200 students each session. She participates to the event “la fête de la science” in Nice (October 13) for scholars and in Antibes (October 22 & 23, 6200 people). She gave a talk “180’” at the “Journées Scientifiques Inria” in Rennes.

- K. Mavreas and C. Papageorgakis actively participated to events organized by the Committee MASTIC (Fête de la Science, ...).
ARAMIS Project-Team

10.3. Popularization

With the precious help of the communication department of the Inria Paris Center, ARAMIS prepared and presented games on brain data analysis, presented at the "Salon Culture et Jeux Mathématiques" and at the "Fête de la Science".
9.3. Popularization

Claude-Pierre Jeannerod gave an invited talk at *Journées Nationales de l’APMEP* (Lyon, October 2016), on the theme of algorithms for computer arithmetic.

Paolo Montuschi (Politecnico di Torino) and Jean-Michel Muller wrote a short paper on Computer Arithmetic for Computer Magazine [51].

Nathalie Revol is a member of the steering committee of the MMI: Maison des Mathématiques et de l’Informatique, and in particular she was involved in the creation of the *Magimatique* exhibition. She presented some magic tricks during *Forum des Associations de Lyon 7e* and during the Science Fair, and she helped a class of high-school pupils (2nd) of Lycée Juliette Récamier (Lyon) to prepare a show for other pupils. She belonged to the selection committee for the MathInfoLy summer school for high-school pupils (around 90 french-speaking pupils). As an incentive for high-school pupils, and especially girls, to choose scientific careers, she gave talks at Lycée Lucie Aubrac (Ceyzériat), Lycée Xavier Bichat (Nantua) and Mondial des Métiers (in January and February 2016). She presented computer science for primary school pupils (CM2, École Guilloux, St-Genis-Laval: 12 lectures and hands-on of 1h30 in 2015-2016, for each of the 2 classes). She presented this work during the *Journées Passeurs de Science Informatique* of SIF in June 2016 and during the workshop *Robots pour l’éducation*. She also presented this work at a TEDxINSA talk and for IESF (Ingénieurs et Scientifiques de France). She took part in a training session for teachers, sponsored by Google, in September 2016. She co-organized two days on "Info Sans Ordinateur" gathering researchers interested in unplugged activities. With Jérôme Germoni and Natacha Portier, she co-organized a day *Filles & Maths* in May 2016 and a day *Filles & Info* in November 2016, each gathering about 100 high-school girls of 1e S. She is one of the editors of Interstices: [https://interstices.info](https://interstices.info). She taught how to disseminate (computer) science for PhD students in a 20h module of *Insertion Professionnelle*.

Damien Stehlé will give a talk at the CNRS ’Colloque Sociétal Sécurité Informatique’ (December 2016), on Fully Homomorphic Encryption.
AROMATH Project-Team (section vide)
ASAP Project-Team (section vide)
9.3. Popularization

- Nina Miolane participated to the following popularization events:
  - Speaker at Unesco France’s Ceremony for 70th Anniversary.
  - Speaker at the Women Forum Global Meeting 2016. How to bring more women in the sci-tech workforce?
  - Speaker at the L’Oreal-Unesco Prizes Ceremony 2016.
  - Journal regional de France 3 Azur (Oct. 31 2016)

- M. Sermesant gave general audience lectures in regional high schools, during the Science Festival in Juan-les-Pins Congress center (Oct 23), and during the Inria-Industry meeting (Dec 1).
10.3. Popularization

- A. Lebre has been invited to the CargoDays event (Nantes).
ASPI Project-Team (section vide)
During the “Semaine du Cerveau” (Brain Awareness week) in March 2016, Maureen Clerc organized a “Café Technologique” about Brain-Computer Interfaces, in which over 100 attendees could see a live demo of the P300 speller with both clinical-grade and consumer-grade devices.

Maureen Clerc participated in a “Gala for Amyotrophic Lateral Sclerosis” at the AXA Headquarters in Paris, a fundraising event, where she presented the P300 speller project.
9.3. Popularization

- Laurent Lefevre has been:
  - Interviewed in "Interception" Radio Magazine on "To click, is to pollute" ("Cliquer c’est polluer"), France Inter Radio, 6 November 2016
  - Interviewed with Françoise Berthoud. "Télévision : Changement de norme = grand gâchis écologique - Site Reporterre.net. - 5 April 2016

- Gilles Fedak has been interviewed in Bitcoin.fr, November 2016
9.3. Popularization

- Pierre Dragicevic and Yvonne Jansen: the Curated List of Physical Visualizations is continuously being updated.
- Petra Isenberg, Tobias Isenberg, and collaborators published an open dataset of IEEE VIS publications at http://vispubdata.org
- Petra Isenberg, Tobias Isenberg, and collaborators published an online tool to explore keywords of the IEEE Visualization conference at http://keyvis.org
- Mathieu Le Goc and Zooids co-authors: Material for Zooids.
8.3. Popularization

- Josiane Zerubia presented Inria and Inria-SAM to Masters, PhDs and Post-docs of the following foreign universities during 2016: University of Genoa, West University of Timisoara, Georgia Tech, Arizona State University, University of Illinois at Urbana Champaign, University of Cambridge, University of Bristol.

- Josiane Zerubia was interviewed in August with two other French women scientists working in remote sensing by a journalist for Earthzine (webzine supported by IEEE and NASA) see https://earthzine.org/2016/10/13/the-three-musketeers-making-an-impact-in-french-remote-sensing-and-breaking-down-gender-barriers/

- In September, Josiane Zerubia actively participated to a debate about Women in Signal Processing at the IEEE International Conference ICIP’16 (http://2016.ieeecip.org/) in Phoenix, USA

BEAGLE Project-Team

8.3. Popularization

- E Tannier gave a series of lectures for a large public at "Université Populaire de Lyon", on "anarchy in biology".
BIGS Project-Team

10.3. Popularization

- A. Gégout-Petit participates to the "Table ronde Bourse aux technologues, Big data et industrie du futur", Ecole des Mines de Nancy, November, 2016.
- Animation d’ateliers MATH.en.JEANS en collège dans la région de Nancy (Romain Azaïs, Clémence Karmann)
- S. Ferrigno: Advisor of a group of students, "La main à la Pâte" project, elementary schools, Nancy, January-June 2016
- S. Ferrigno: Advisor of a group of students, "La main à la Pâte" project, Institut médico-éducatif (IME), Commercy, September-December 2016
10.3. Popularization

The activities related to microalgae have generated many articles in national newspapers (Le Monde, Nice Matin, journal du CNRS,...) where ...), and broadcasts on national radio (Europe 1) and TV (France 2, France 3). Several articles were written by the team members explaining the hurdles and potential of microalgae.

M. Chaves was part of the jury for the PhD student contest "Ma thèse en 180 sec" (regional stage, April 2016, Nice).

Biocore, especially Stefano Casagranda and Lucie Chambon, was involved in the "Spring of Researchers" and in the "Fête de la Science".

P. Bernhard has given conferences in Lycée René Goscinny, in Drap on January 12th (Le nombre d’or: mythes et curiosités), in Lycée Alexandre Dumas, in Cavaillon on February 29th ("Game Theory") and in Lycée Costebelle, in Hyères on March 15th (Le nombre d’or: mythes et curiosités).
8.3. Popularization

- Rencontre avec le public à la suite de la projection du film “La nuit qu’on suppose” de Benjamin d’Aoust, Médiathèque d’Antibes, 16 Janvier 2016.
BIPOP Project-Team

9.3. Popularization

BONSAI Project-Team

10.3. Popularization

The team has always been very active in popularizing computational biology and computer science in general.

- M. Salson participated in an exchange with scientific journalists organized by the French association of scientific journalists (AJSPI). A journalist was hosted during one week in the team and M. Salson spent one week in the newsroom of La Recherche, a French science magazine.

- Within a project on skeptical thinking with a popularization association “Les Petits Débrouillards”, M. Salson is part of the monitoring committee and gave lectures to social workers.

- The team participates to dissemination actions for high school students and high school teachers on a regular basis: multiple presentations on bioinformatics and research in bioinformatics with our dedicated “genome puzzles”, booth about computer science unplugged for high school girls, booth at Xperium about development of biopesticides (including a demo on the use of Norine), plenary presentations at the “Day for Programming and Algorithmic Teaching”, presentations at “Salon de l’étudiant”, visit of high school students in the team (M. Giraud, M. Pupin, M. Salson, J.-S. Varré, R. Chikhi, V. Leclère)
CAGIRE Project-Team

10.3. Popularization

- Unithé ou café, "Modelling and approximation in fluid mechanics", 21 June 2016, Inria BSO Center. [JJ]
CAIRN Project-Team (section vide)
CAMIN Team

10.3. Popularization

- Large cover in general media (radio, TV, newspapers) of Cybathlon project http://freewheels.inria.fr/
- Christine Azevedo presented Cybathlon project at DIRCOM Inria, Rocquencourt, in the context of Handicap national week.
- Christine Azevedo presented Freewheels experience at Carrefour du Pôle EUROBIOMED (Marseille).
- Christine Azevedo presented the job of researcher in secondary school Collège Léon Cordas (Montpellier)
10.3. 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 first complete online version of his book Modern C, to appear in 2017, has been accessed more than 10000 times on a single day.
9.3. Popularization

An article on our KBDOCK resource for studying protein-protein interactions was published in ERCIM News (edition 104, January 2016) [22].

The team made a presentation at the public “Cité Forum” in Nancy (01-02 Apr 2016).
10.3. Popularization

- Laurent Grémy and Pierre-Jean Spaenlehauer have animated a stand in the “Village des Sciences du Loria” in March 2016.
- Laurent Grémy and Pierre-Jean Spaenlehauer have animated a stand during the celebration of the Loria’s 40 years anniversary in June 2016.
- Pierrick Gaudry organized and participated to a debate fed by excerpts from movies on the topic of cryptography and privacy in October 2016.
CARDAMOM Project-Team (section vide)
9.3. Popularization

The Carmen team has responded to a call of Cap’Maths in 2014 on dissemination and popularization of mathematics destined for young pupils, the general public, and (future) mathematical professionals. For this project, G. Ravon and Y. Coudière developed a serious game called Heart Attack. The game is destined for middle and high school students as an introduction to mathematical modeling. The principal goal of the game is to illustrate the notion of numerical modeling in medical research, and in particular in cardiac rhythmology. The player takes the role of a scientist having developed a numerical model for the electrical activity of the heart and tries to learn how to prevent an arrhythmia. A secondary goal is to teach about the electrical activation mechanism of the heart.

Integrating scientific simulations in an interactive website is challenging because of the constraints imposed by a web-based framework. As a result of this project we have learned a great deal about such development and about the collaboration with professional web developers.
CARTE Team

8.3. Popularization

Nazim Fatès contributed to the collective book *Lettres à Turing* (ed. Thierry Marchaisse, May 2016), which addresses the legacy of Turing in our Modern Times. He was invited to discuss this book and the question of artificial intelligence in three national radio programs:


Nazim Fatès participated to an open discussion (table ronde) on the theme of artificial intelligence (“Intelligence artificielle : quel monde prépare-t-elle ?”), invitation by the Cercle universitaire of Enghien-les-bains, on the 27th of Septembre in Enghien-les-bains. He was interviewed by Eric Chaverou, journalist at France Culture for his radio program of May 20, 2016, on the theme: “L’intelligence artificielle made in France”. This interview is available on the website of the radio program or directly via soundcloud. He participated to a public debate on the theme “Jusqu’où ira l’intelligence artificielle ?” the Café des sciences et techniques, organised by the CNAM, in Épinal, 21 January 2016.
CASCADE Project-Team (section vide)
CASTOR Project-Team

7.3. Popularization

J. Blum has been invited to a dinner-conference organized by the Rotary Club of Grenoble Sud. Title of the talk: "L’énergie de demain, ITER un soleil miniature?"
CEDAR Team

9.3. Popularization

- M. Thomazo has presented a game based on RDF graphs and social networks as part of Fête de la Science in Inria Saclay, in October.
- The ANR ContentCheck project on content management techniques for journalistic fact-checking has attracted news attention in a series of general-audience articles published by Ouest France, Le Devoir (Canada), Rue89, Le Monde, Inria and CNRS, among others:
  - http://www.inria.fr/centre/saclay/actualites/un-logiciel-de-fact-checking-pour-comprendre-le-monde-qui-nous-entoure
  - https://lejournal.cnrs.fr/articles/un-logiciel-qui-decrypte-la-politique

The project has also lead to an interview by Science Po students studying in the Communication Master of the school, around automated fact-checking topics: https://inciviveritas.wordpress.com/menu-page/lautomatisation-du-fact-checking/.
6.3. Popularization

Talk “Bug, Virus, Intrusion, Pirates... So many threats and no defense? Yes... maths.”, Thomas Genet, given three times in high schools close to Rennes.
CHROMA Team (section vide)
10.3. Popularization

Emmanuelle Anceaume was interviewed on the topic « Blockchain : comment le bitcoin révolutionne l’économie numérique ? » in a broadcast of "le labo des savoirs" (http://labodessavoirs.fr/emissions-du-labo/).

Guillaume Piolle has participated to the scientific popularization program à la découverte de la recherche aimed at secondary education pupils. 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). It took place in high schools in Redon, Cesson-Sévigné and Dol-de-Bretagne.

Valérie Viet Triem Tong participates to (the stand and demo of) the 8h International Forum of CyberSecurity (FIC 2016).

Valérie Viet Triem Tong has published in Interstices a paper entitled "Lutter contre les codes malveillants" (https://interstices.info/jcms/p_91111/lutter-contre-les-codes-malveillants).
10.3. Popularization

Vivien Mallet and Raphaël Ventura, together with Cong Kinh Nguyen (MiMove), Pierre-Guillaume Raverdy (SED), Fadwa Rebhi (MiMove), Fabienne Giboudeaux (Paris city), Awa Ndiaye (Paris city), Gilles Plattner (Particitae) and Laure Turcati (Particitae), took part to collaborative measuring of noise pollution with volunteers from the general public. Using the mobile application Ambiciti, the volunteers carried out a journey in a city district in order to measure noise pollution with their smartphones, and therefore help to map noise pollution in the area. At the end of the journeys, the observations were merged with an existing noise map so as to produce an improved map. Discussion about the strengths and limitations of mobile observation were engaged, and the activity helped to inform about noise pollution. This was carried out in Paris at the opening of the “Canopée des Halles”, at Futur en Seine festival and during the “journée sans voiture”.
COAST Project-Team

8.3. Popularization

- In March 2016 members of the team (François Charoy and Phillippe Kalitine) participated to the “Rencontres Université Entreprise” in Paris to demonstrate the collaborative editor MUTE (http://www.rue-aef.com)
- In January 2016 Claudia-Lavinia Ignat presented Coast research activities to the first year students at Ecole de Mines de Nancy
- In May 2016 Claudia-Lavinia Ignat gave a lecture on Replicated Data Consistency at SOAMED Graduate School in Berlin
- In May 2016 Claudia-Lavinia Ignat organised the meeting Research@Inria at Inria Nancy-Grand Est for presenting to internship students, PhD students and postdocs various Inria programs and the main research topics at Inria with a focus on activities of research teams at Inria Nancy-Grand Est. She also presented the main activities of a researcher and briefly described her research work.
- In November 2016 members of the team (François Charoy and Matthieu Nicolas) participated to the “Rencontre Inria-Industrie” (RII) on the topic - Interactions avec les objets et services numériques” in Lille to demonstrate MUTE collaborative editor
- In December 2016 members of the team (Claudia-Lavinia Ignat, Gérald Oster, Matthieu Nicolas and Phillippe Kalitine) participated to the “Rencontre Inria-Industrie” (RII) on the topic - Nouvelles technologies pour la protection des données et des systèmes numériques” in Nancy to demonstrate collaborative editor MUTE
- In December 2016 members of the team (Gérald Oster, Matthieu Nicolas and Phillippe Kalitine) demonstrated the collaborative editor MUTE during the visit of the Rectors of the Mexican Technological Universities at LORIA in the context of the bilateral MEXPOTEC program.
10.3. Popularization

Guillaume Ducoffe:


Frédéric Havet:

Fête de la Science: co-organised the Village des Sciences at Vinon-sur-Verdon, France (November 10-14, 2016). F. Havet gave many talks and animated several stands during the whole week.

Semaine des Mathématiques : presented the stand “Les formes de largeur constantes” at Vinon sur Verdon (March 17, 2016)

Culture Science au Lycée : gave the conference “Magie mathématique et binaire” at Lycée Caucadis Vitrolles (April 28, 2016) and the conferences “La magie du binaire” and “La Science du Ballon de Football” at Lycée Caucadis Vitrolles (December 9, 2016).


General audience conference : gave the conference “La Science du Ballon de Football” at Rians, Var, France (January 29, 2016).

Nicolas Nisse:

Fête de la Science: animated several stands during the Village des Sciences at Vinon-sur-Verdon, France (November 10-14, 2016).

Fête de la Science: animated several stands in Palais des Congrès de Juan-Les-Pins, October 22-23rd, 2016

Steven Roumajon:

COFFEE Project-Team (section vide)
COMETE Project-Team (section vide)
10.3. Popularization

10.3. Popularization

The interdisciplinary spring school organized in May 2016 (see Section 10.1) is a form of popularization of compiler technology (in particular polyhedral optimizations) towards HPC users from the numerical simulation community.
H. Garavel participates to the program committee and organization committee of FMF (Formal Methods Forum\textsuperscript{0}), a series of industrial conferences on formal methods set up by the competitiveness clusters Aerospace Valley and Minalogic, with the support of Inria and many other partners. The 6th FMF conference, devoted to safety engineering, was held on January 26, 2016. The 7th FMF conference, devoted to formal methods and cybersecurity, is scheduled on January 31, 2017.

H. Garavel and R. Mateescu co-operated with Gérard Berry to prepare his lecture on explicit-state enumerative verification given at Collège de France on April 22, 2016.

\textsuperscript{0}http://projects.laas.fr/IFSE/FMF
CORSE Project-Team (section vide)
CQFD Project-Team (section vide)
CTRL-A Team (section vide)
9.3. Popularization

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

Serge Abiteboul is Scientific curator of the exhibit "Terra Data" at Cité des Sciences de La Villette, 2017. He is member of the editorial board of Les big data à découvert, directed Mokrane Bouzeghoub and Rémy Mosseri. He gave invited talks at La Pépinière 4.1 in Nancy, Rencontres du Numérique of ANR, Parole Publique, Sciences à Coeur at Sorbonne Univ., Espace Mendes France at Poitiers,

Serge Abiteboul is Chairman of the Executive Council of the Foundation Blaise Pascal for the promotion of Maths and Computer Science.
DANTE Project-Team (section vide)
9.3. Popularization

In conjunction with the Polaris team, the team (Seniors and PhDs) participates to several "computer science with hands" events, notably the "Fête de la science", every year, but also some visits of classes from high school of the area along the year at Inria Rhône-Alpes.

Talk at the ISN conference organized by Inria, dedicated to present the computer science to teachers of High School
DATASHAPE Team (section vide)
DEDUCTEAM Team (section vide)
DEFI Project-Team (section vide)
10.3. Popularization

- Olivier Goury and Christian Duriez participated in "Fête de la science: Opération Chercheurs itinérants", which involves giving scientific lectures in middle and high schools.
- Christian Duriez and Mario Sanz Lopez participated in the "Bourse aux Technologies" at Bercy, Paris (22 March).
- Popularization session 13:45 on the topic of Arduino by Mario Sanz Lopez.
- Popularization session 13:45 on the topic of Software development good practices by Bruno Carrez.
- Damien Marchal participated in "Chti’Code". Chti’Code is an action of the University of Lille 1, which aims to promoting computer education in primary schools. Damien Marchal intervened with computer science student in 4 CM2 classes for a total of 20h.
- Jeremie Dequidt was jury member of the second robotic competition SI / @ Baggio.
9.3. Popularization

Chadi Barakat keeps participating to the organization of the Mediterranean Students Days @ Campus SophiaTech. The fourth edition took place on March 9-11, 2016, and the fifth edition will took place on February 28-March 2, 2017. All details on this event can be found at [http://univ-cotedazur.fr/events/meddays](http://univ-cotedazur.fr/events/meddays).

Walid Dabbous contributed to a large audience book on Big Data (“Les Big Data à Découvert”, CNRS Editions, 2017). His participation [29] is on ”Networks for Big Data”.

Arnaud Legout gave a presentation on Internet Privacy to high school students at Lycée Amiral in Grasse.

Damien Saucez was invited at AuvernIX to give a tutorial on the Locator/ID Separation Protocol (LISP) in December 2016.

Damien Saucez was invited in December 2016 to present Future Internet challenges to high school students at Lycée Aubrac de Bollène in the context of “Science culture au lycée”.

Damien Saucez was invited at the Amadeus Global Forum in June 2016 to present the future of Software Defined Networking.
DICE Team

9.3. Popularization

Aurélien Faravelon: 12/05/2016, Débats Citoyens, Musée Gallo Romain de Lyon

Robert Riemann: 28/12/2016, Chaos Communication Congress/We fix the Net assembly, Hambourg
10.3. Popularization

- 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
DISCO Project-Team (section vide)
9.3. Popularization

- IT industry forums. Our recent work on diversity against browser fingerprinting and the associated web site have been demonstrated in the major cybersecurity forum (FIC’15), the largest IT event organized by the European commission (ICT’15) and two open source forums (OWF’14 and FOSSA’14).

- General-audience press. Our work on browser fingerprinting has been featured Le Monde, and two full articles appeared in the MISC and the Clubic magazines.
DOLPHIN Project-Team

10.3. Popularization

- Clarisse Dhaenens, Fanny Dufossé, Laetitia Jourdan, Marie-Eléonore Marmion: Operational research - for 2nde during integration week (June 2016)
- Laetitia Jourdan, Marie-Eléonore: Computer Unplugged, Numériqu’elle Day (November 2016)
- Laetitia Jourdan: Computer Unplugged, Primary School (December 2016)
9.3. Popularization

DREAMPAL Project-Team (section vide)
9.3. Popularization

- **Organization of Sciences en Cour[ts].** Since 2007, Sciences en Cour[ts] is a project of Nicomaque organization, the association of PhD and PhD students of Brittany. It is a popularization Festival where PhD students explain their thesis via short films of 5min. The goal is to present their scientific researches to the general public. Every year, PhD students of Inria/IRISA join the organization or make movies. [J. Coquet (coordinator of the festival), V. Delannée (president of Nicomaque), A. Antoine-Lorquin (organizer of the festival)] [more info].

- **Production of Sciences en Cour[ts] film.** "Une petite histoire de symbiose(s)". [C. Frioux] [more info].

- **Bioinfo-fr.net** Bioinfo-fr.net is a french web site where researchers, engineers and students talks about bioinformatics. We have written or contributed to 3 articles for this web site on diverse subjects: "Remise des diplômes du master BIG (Rennes)", "Les dev’ jam c’est bon pour vous!", "Ecrire son parseur à la main: chroniques d’une mauvaise bonne idée". [L. Bourneuf, O. Dameron]. [more info].
10.3. Popularization

- Anne Bouillard: invited speaker at “Girls can code” 2016 session (Training session for female junior and senior highschool students).
9.3. Popularization

Laurent Hascoët wrote an article about AD for the blog “binaire”, hosted by ”Le Monde”. May 9.
ERABLE Project-Team (section vide)
10.3. Popularization

10.3.1. Demos

Inria-EVA is working with the Inria-Paris management team to install a permanent demo on the Inria-Paris premises in Q1 2017. Pieces of the same demo have been presented to all people and teams visiting the lab. For example, the high school students from the Lycee Louis-Le-Grand on 1 June 2016.

10.3.2. Videos

The following videos were prepared with the audio/video team of Inria.

1. Interview of Thomas Watteyne during the “Nouveaux Arrivants” workshop. To be published.

   - English version: https://www.youtube.com/watch?v=_qGSH8I0Vk
   - French version: https://www.youtube.com/watch?v=cZvGw7DyIzI

10.3.3. In the News

1. Thomas Watteyne featured in “Experto en IoT realiza webinar con Inria Chile”. Inria-Chile newsletter, December 2017.

2. Interview of Thomas Watteyne: “In Argentina alone, connected agriculture could have saved 10,000 jobs in one year”, Inria Homepage, November 2016.

3. Interview of Thomas Watteyne in “La Gazette”, the Inria-Paris newsletter, on Smart Agriculture, October 2016.


5. Keoma Brun-Laguna presented the PEACH project during the annual Math exhibition in Paris, on 28 May 2016.


10.3.4. Web Presence & Social Media

- The Inria-EVA team maintains the following websites:
  - https://team.inria.fr/eva/
  - http://www.savethepeaches.com/
  - http://www.snowhow.io/
  - http://www.solsystem.io/
  - http://www.headsup.tech/

- The Inria-EVA team maintains the Twitter accounts:
  - EVA (https://twitter.com/InriaEVA), 180 tweets
  - OpenWSN (https://twitter.com/openWSN), 88 tweets
  - savethepeaches (https://twitter.com/peachesthesave), 73 tweets
  - HeadsUp! (https://twitter.com/heads_up_save), 28 tweets
  - REALMS team (https://twitter.com/realms_team), 28 tweets
  - SOLsystem (https://twitter.com/SOLsystem), 16 tweets
  - snowhow (https://twitter.com/snowhow_io), 14 tweets
EX-SITU Team

10.3. Popularization

Organisation d’une Journée d’étude, 15 April 2016 @ ENSCI La fabrique des outils, concevoir et pratiquer les logiciels de design: Nolwenn Maudet

BeyondLab, 10 February 2016 Meet-up sur les nouvelles interfaces: Sarah Fdili Alaoui, Michel Beaudouin-Lafon, Wendy Mackay, and Theophanis Tsandilas


ACM UIST Demonstration, “Expressive Keyboards”, Jessalyn Alvina

ACM UIST Demonstration, “StickyLines”, Marianela Ciolfi

ACM UIST Demonstration, “Stretchis”, Michael Wessely

ACM UIST Demonstration, “UIT Video Playlist”, Carla Griggio

ACM “HCI Pioneers”, Michel Beaudouin-Lafon, Wendy Mackay
8.3. Popularization

- Jérôme Euzenat gave a training conference in computer science for high-school teachers on “Language and semantics”, Inria, Montbonnot (FR), 2016-02-10
10.3. Popularization

10.3.1. Poppy Education

10.3.1.1. Events participation

January 2016, Observation Sequence for students from middle-school (Inria Bordeaux Sud-Ouest): S. Noirpoudre, T. Desprez, M. Demangeat, T. Laine - We welcomed 5 students from middle-school (14 years old) during a week to discover the working environment and to introduce them to robotics.

January 2016, Robot makers’ day (Talence): S. Noirpoudre, D. Caselli, T. Desprez - Exhibition stand to show the project Poppy Education and Poppy robots.

January 2016, Training day at Espe de Bordeaux (Ecole supérieure du professorat et de l’éducation): D. Roy, S. Noirpoudre, T. Desprez, M. Demangeat - Train a group of teachers initiate in programming with the language visual Snap! and to robotics with Poppy Ergo Jr.


January 2016, Robots day (Multimedia library of Talence): P. Rouanet - A talk to present the platform robotics Poppy through science, art and education.

January 2016, Symposium Didastic-Didapro (Namur): D. Roy - Talk to present Poppy Education.

January 2016, Eidos 2016 event (Dax): S. Noirpoudre - A talk to present Poppy Education.


March 2016, Training day at Espe de Bordeaux (Ecole supérieure du professorat et de l’éducation): T. Desprez - Train a group of teachers in Snap!

March 2016, SNCEEL (organisation professionnelle de chefs d’établissement d’enseignement libre), Journées Collèges event (Paris), T. Desprez - Talk to present Poppy project and the pedagogical activities.

April 2016, Connect thouars event (Talence): T. Desprez, S. Noirpoudre, M. Demangeat - Exhibition stand to present the project Poppy Education and workshop animation for kids (programming of Ergo in Snap!)

April 2016, Rob’o d’Evian: D. Roy (Evian) - Talk to present Poppy Education.

May 2016, Robotics and Education days (ENS Lyon): D. Roy, S. Noirpoudre - Talk to present Poppy project and the pedagogical activities.

May 2016, Bordeaux Geek Festival (Bordeaux): M. Demangeat, T. Desprez - Exhibition stand to show/present the robotics platform Poppy.

May 2016, Forum des Nouvelles Initiatives de Médiation Scientifique (Bordeaux): D. Roy - Talk to present the project Poppy Education.

May 2016, Forum des Nouvelles Initiatives de Médiation Scientifique (Bordeaux): T. Desprez, S. Noirpoudre - Exhibition stand to present the project Poppy Education and show the robots (real demonstrations) and pedagogical activities.

May 2016, Visit of teachers of Espe Aquitaine (Inria - Bordeaux Sud-Ouest): S. Noirpoudre, D. Roy - Visit of the research center and presentation of Poppy Education project and to the robotic kits (25 teachers).

June 2016, Symposium Education and Robotics (Talence): D. Roy, T. Desprez - Talk to present Poppy Education project (purpose, pedagogical activities and the results).
June 2016, Symposium Education and Robotics (Talence): S. Noirpoudre - Exhibition stand to show Poppy Education project (demonstrations)

August 2016, Université d’été Ludovia (Ax-les-Thermes): P. Rouanet, M. Demangeat - Exhibition stand Poppy Education during 3 days in partnership with l’Académie de Bordeaux


October 2016, Coding Pi Science Day (CERN close to Geneva): S. Noirpoudre, T. Segonds - Conference to present the pedagogical robotic kit Poppy Ergo Jr

October 2016, Coding Pi Science Day (CERN close to Geneva): P. Rouanet, M. Demangeat - Workshop / presentation / demonstration of Poppy Education during 3 days in partnership with l’Académie de Bordeaux


October 2016, Coding Pi Science Day (CERN close to Geneva): S. Noirpoudre, T. Segonds - Conference to present the pedagogical robotic kit Poppy Ergo Jr

October 2016, Coding Pi Science Day (CERN close to Geneva): P. Rouanet, M. Demangeat - Workshop / presentation / demonstration of Poppy Education during 3 days in partnership with l’Académie de Bordeaux

October 2016, Fête de la science (Inria Bordeaux Sud-Ouest): S. Noirpoudre, T. Desprez - Presentation of the progress of the year and presentations of pedagogical activities

November 2016, Erasmus project "ICT WORLD : Imaging, Coding, Transforming and Modeling the World" (Inria Bordeaux Sud-Ouest): S. Noirpoudre, programming workshop using Snap! and the robot Poppy Ergo Jr (35 students and 14 teachers)

November 2016, Inria Learning Lab (Paris): D. Roy - Presentation of Poppy Education

December 2016, Observation Sequence for Grade 3 Students (Inria Bordeaux Sud-Ouest): S. Noirpoudre, T. Desprez - We welcomed 2 students from middle-school during a week to discover the working environment and to introduce them to robotics

10.3.1.2. Training and meeting

• January 2016, Meeting with teachers partners of the Poppy Education: Poppy Education project team - Talking about pedagogical activities and robots availabilities

• March 2016, Meeting with teachers partners of Poppy Education, Poppy Education project Team - Feedback and presentations on pedagogical activities and the use of robots in the classroom

• May 2016, Meeting with teachers partners of Poppy Education, Poppy Education project team - Feedback on pedagogical activities and the use of robots in the classroom

• May 2016, Train Inria workers (from scientific mediation), S. Noirpoudre - Learn how to present the Poppy project

• June 2016, Train Canope 33 workers, S. Noirpoudre - Programming the robot Ergo Jr using Snap!

• October 2016, Meeting with teachers partners of the Poppy Education project: Poppy Education project team - Presentation of the progress of the year and presentations of pedagogical activities

• November 2016, Train new teachers partners of Poppy Education: S. Noirpoudre - Building and programming the robot Poppy Ergo Jr

10.3.2. Inirobot

10.3.2.1. Events participation

January 2016, Training day at Espe de Bordeaux (Ecole supérieure du professorat et de l’éducation): D. Roy, S. Noirpoudre, T. Desprez, M. Demangeat - Train a group of teachers initiate in program-
mation with the Inirobot kit.


March 2016, Education exhibition Educatice-Educatec (Paris) : S. Noirpoudre, D. Roy - Exhibibition stand to present the robotics kit Inirobot.

March 2016, SNCEEL (organisation professionnelle de chefs d’établissement d’enseignement libre), Journées Collèges event (Paris), T. Desprez - Talk to present Inirobot kit.

April 2016, Rob’o d’Evian: D. Roy (Evian) - Talk to present Inirobot kit.

May 2016, Robotics and Education days (ENS Lyon): D. Roy, S. Noirpoudre - Talk to present Inirobot kit.
May 2016, Forum des Nouvelles Initiatives de Médiation Scientifique (Bordeaux): D. Roy - Talk to present Inirobot kit.


August 2016, Université d’été Ludovia (Ax-les-Thermes): P. Rouanet, M. Demangeat - Exhibition stand Inirobot during 3 days in partnership with l’Académie de Bordeaux


September 2016, Colloque sur les contenus périscolaires (Artigues-près-Bordeaux): D. Roy - Inirobot (organized by Senator Françoise Cartron)

October 2016, Journées APMEP (Lyon): J. Rivet, G. Lassus, members of Poppy Education teachers team - workshops on Inirobot and Poppy Education, organized by D. Roy


10.3.2.2. Training and meeting


- October 2016, Robotics for education Training week "Graines de sciences": D. Roy (Fondation "La Main à la Pâte", Marseille CIRM)

10.3.3. KidBreath

February 11th 2016, 2nd Meeting for Aquitaine and Euskadi companies in Biology and Health: A. Delmas - Poster presentation of KidBreath project.

September 16th to 18th 2016, Hackathon of innovation in pulmonary diseases Respirhacktion: A. Delmas - Oral presentation and project development in hackathon.

October 5th to 7th 2016, 5th Conference in Health Ergonomics and Patient Safety: A. Delmas - Poster presentation of KidBreath project [102],

November 16th 2016, Learning Lab day: A. Delmas, B. Clément, P-Y. Oudeyer, D. Roy - Oral presentation of Flowers projects linked to Education.

December 2nd to 3rd 2016, 5th edition of Serious Games in Medicine Conference: A. Delmas - Oral presentation of KidBreath project

10.3.4. Other

PY Oudeyer wrote popular science articles about computer science, artificial intelligence and robotics, and gave several interviews in the general press and at radio and TV programs: see http://www.pyoudeyer.com/popular-science/ and http://www.pyoudeyer.com/press/ and has been maintaining a youtube channel showing popular science videos https://www.youtube.com/channel/UC7QuDF8AaE6mqEM9W_S30RA/featured

D. Roy is co-organiser of R2T2 International Mission with EPFL and ESPE Martinique: Remote Robotics programming with children. https://www.thymio.org/en/thymio-r2t2
9.3. Popularization

Jocelyne Erhel
- talk at day "au coeur des maths, enfermement ou liberté ?", LVN, May 2016.
- scientific responsible of the scientific culture web journal "Interstice" (https://interstices.info/)

Dominique Heitz
- Interview dans L’Usine Nouvelle, No 3479, pp. 30-31, 2016
9.3. Popularization

Simone Martini has carried out extended work of scientific divulgation, including

- member of the technical committee of Olimpiadi del Problem Solving (at Italian Ministry of Education), http://www.olimpiadiproblemsolving.com;
- various talks at institutes and workshops on the teaching methods for Computer Science;

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

9.3.1. Other duties

S. Martini is a member of the Board of CINI (Italian National Interuniversity Consortium for Informatics), designated by the Ministry for Semplificazione e Pubblica Amministrazione, from 2015.

S. Martini has been elected Head of the Department of Computer Science and Engineering, University of Bologna, for the term 2015-2018.

D. Sangiorgi has been coordinator of undergraduate studies at the Department of Computer Science and Engineering, University of Bologna (Informatica per il Management), till October 2016, when G. Zavattaro has taken over from him.
10.3. Popularization

- Tahiry Razafindralambo and Simon Duquennoy gave a talk for 13-45 in April 2016
- Emilio Compagnone gave a talk for 13-45 in May 2016
- Cristina Cano gave a talk at "30 min de Sciences" in May 2016
- Emilio Compagnone and Valeria Loscri gave a talk and a demo at Robotic Day at Euratechnologies in July 2016
- Nathalie Mitton, Cristina Cano and Viktor Toldov gave talks at IoTWeek by CITC on June 2016
- Nathalie Mitton gave a talk at NormaFret by i-Trans competitiveness cluster in September 2016
- Aziz Mbacke, Jad Nassar and Julien Vandaele gave some talks in high schools for the "Fête de la Science" in October 2016
- Nathalie Mitton co-authored popularization articles in La main à la pâte (to be published in January 2017), white paper on e-accessibility for BrailleNet/G3ict and an article in Big Data à découvert by CNRS edition.
GALEN Project-Team (section vide)
10.3. Popularization

Xavier Leroy gave a popularization talk on formal methods at the plenary days of Inria’s DGD-T (may 2016) and another on critical avionics software for first-year students at Ecole Polytechnique (june 2016).
GAMMA3 Project-Team (section vide)
GANG Project-Team

9.3. Popularization

- Laurent Viennot is “commissaire d’exposition” for the permanent exposition on “Informatique et sciences du numérique” at Palais de la découverte in Paris (opening in October 2017).
- An article centered around the eLife 2016 paper “A locally-blazed ant trail achieves efficient collective navigation despite limited information” [14], whose co-authors include Amos Korman (co-corresponding author), Lucas Boczkowski, and Adrian Kosowski, appeared on the Israeli daily newspaper “Haaretz”, Dec 2016.
- The team has made contributions to the Encyclopedia of Algorithms [44], [41].
9.3. Popularization

Ugo Boscain gave a concert-seminar at the event “Musique & Mathématiques 2016”, Besançon, November 2016.
10.3. Popularization

- Operation "A la découverte de la recherche" [P. Peterlongo]
9.3. Popularization

N. Brodu has given a presentation at Inria’s Unithé ou café : (April 1st): Title: « Des images satellites aux messages sur les sites »
10.3. Popularization

- At the occasion of Nokia Bell Labs Future X-Days, September 2016, D. Augot, N. Coxon and F. Levy-dit-Vehel demoed N. Coxon’s implementation of a code based private information retrieval scheme.
- D. Augot made a two hours lecture on bitcoin to the French institut des actuaires.
9.3. Popularization

George Koulieris described his research in an interview for the Inria@SiliconValley Newsletter 0. Adrien Bousseau described his research in two interviews for the Inria website 00. Adrien Bousseau gave demos of his tool to help people practice drawing-by-observation techniques during the “Rencontres du numérique” organized by ANR (Nov. 16th) and during the “Rencontres Inria-Industrie” on e-learning (Dec. 1st).

0https://project.inria.fr/siliconvalley/2016/06/21/post-doc-george-koulieris/
00https://www.inria.fr/centre/sophia/actualites/adrien-bousseau-laureat-du-prix-jeune-chercheur
GRAPHIK Project-Team (section vide)
10.3. Popularization

- J-P. Merlet has participated to a meeting “Future of robotics” organized by the Académie of Sciences. As a member of Executive Council of IFToMM he has contributed to the organization of the third Students International Olympiad on Mechanism and Machine Science held in Madrid. He is also a regular reviewer for Interstices and a contributor [18]

- Y. Papegay is actively participating to the Math.en.Jeans initiative for Mathematics teaching for undergraduate students. He has organized and animated summer schools in experimental mathematics and computer sciences. A three weeks session has been held at the University of Western Australia in Perth in July and three other one week sessions have been held in Oxford in June and August gathering around 50 high-school students - most of them were awardees in Mathematics Olympiads.
HIEPACS Project-Team (section vide)
HYBRID Project-Team

10.3. Popularization

The team has organized, together with MimeTIC team, a press conference and a press release on the "6-Finger Illusion" in May 2016. This event has been followed by lots of articles (internet, press) and radio coverages, including: France Inter, RFI, Europe 1, Le Monde, Libération, Les Echos, etc.

In addition, the results of the team have been disseminated in several other media coverages in 2016:

- "Journal télévisé 20h" (National prime time news), France2 channel (02/16) : presentation of the BCI activity.
- "Journal télévisé du soir", TVRennes channel (04/16) : presentation of the Forum Eurocities visit in Immersia.
- "La tête au carré", France Inter radio (10/16) : participation of Anatole Lécuyer.

The team has also participated to numerous dissemination events in 2016 (chronological order):

- "Open House ISTIC 2016" (Rennes, 01/16) : booth and demos of the team.
- "Forum EuroCities" (Rennes, 04/16) : presentation from Ronan Gaugne and demos in Immersia.
- "Les 10 ans du Quai Branly" (Paris, "Quai Branly” Museum, 06/16) : talk from Valérie Gouranton and Ronan Gaugne on virtual archaeology.
- "French-American Doctorat Exchange program 2016” (Rennes, 07/16): presentation from Ferran Argelaguet on Hybrid activities.
- "Journées du Patrimoine 2016" (Rennes, "Champs Libres” Museum, 09/16) : demos related to virtual archaeology.
- "Journées Science et Musique 2016" (Rennes, 10/16) : co-organization of this event, and presentation of several demos.
- "Nuit Art et Science 2016" (Brest, 10/16) : demo on musical composition history in virtual reality and Immersia.
- "NEUROPLANETE 2016" (Nice, 10/16) : talk from Anatole Lécuyer and dissemination in “Le Point” journal.
- "Rencontres Inria Industrie: Interactions avec les objets et services numériques” (Lille, 11/16): demonstration from Ferran Argelaguet.
HYCOMES Project-Team (section vide)
10.3. Popularization

J. Dumoulin was in charge of hybrid/solar road that was demonstrated at COP21 and COP22.
IBIS Project-Team (section vide)
ILDA Project-Team

10.3. Popularization

IMAGINE Project-Team

8.3. Popularization

Marie-Paule Cani

- Participation to a Round Table within the conference: “Mathématiques Oxygène du Numérique”, Paris, November 2016.

Damien Rohmer gave a presentation on

- Researches and applications in Computer Graphics to ENS Lyon students.
- Scientific image production to mathematiciens scientists at the MMI (Maison des Mathématiques et de l’Informatique) in Lyon.
- Garment and developable surface modeling at the R3iLab (Réseau innovation immatériel pour l’industrie).

Rémi Ronfard

- Eye tracking and the arts. Invited talk at Experimenta, Grenoble, October 2016.
- Artificial Intelligence and the arts. Invited talk at Atelier Arts et Science, CEA/Hexagone, Grenoble, October 2016.
7.3. Popularization

- Web users are continuously tracked as they browse the Web. One of the techniques for tracking is device fingerprinting that distinguishes users based on their Web browser and operating system properties. Together with Inria Celtique team, we have proposed solutions to detect and prevent device fingerprinting via runtime monitoring of JavaScript programs. We have published an article in a general public ERCIM News magazine about prevention of device fingerprinting via program monitoring [10].

- We have implemented the WebStats website. This website collects, on a monthly basis, a number of JavaScript and security statistics about top 10,000 webpages: the usage of popular JavaScript libraries; the usage of different language constructs in these libraries; use of Content Security Policies and secure cookies, etc. The WebStats website can be used by programmers (to understand which JavaScript libraries are more popular), researchers in programming languages (when designing a subset of JavaScript, to safely exclude the language constructs that are rarely used according to WebStats), and researchers in privacy (to analyse which tracking libraries are the most prevalent).
INFINE Project-Team

9.3. Popularization

- Francisco Padilla and Loïc Dauphin participated to the "Fête de la Science 2016".
9.3. Popularization

- PICOM workshop on Logistics, May 2016.
IPSO Project-Team (section vide)
10.3. Popularization

Luc Bougé:
Master Program, Rennes. Invited presentation to the M2 students about *Informatics as a scientific activity: Toward a responsible research* (December 2016).

Alexandru Costan:
Master Program, Rennes. Invited presentation to the M2 students about *Big Data Analytics* (November 2016).
10.3. Popularization

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

10.3. Popularization

- Due to the visibility of our experimental platforms, the team is often requested 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, grasping and dual arm manipulation by Romeo, vision-based shared control using our haptic device for object manipulation, the control of a fleet of quadrotors, vision-based detection and tracking for space navigation in a rendezvous context, the semi-autonomous navigation of a wheelchair, and augmented reality applications. Some of these demonstrations are available as videos on VispTeam YouTube channel (https://www.youtube.com/user/VispTeam/videos). This year there were among others, demonstrations organized for the HCERES expert committee that evaluated IRISA, about twenty people affiliated to the CNRS electronics network, students of the “Innovation et entreprenariat” Master, those of the L3 R&I at ENS Rennes, about twenty students from the “Ecole des Mines de Nancy”, several classes of high school students around Rennes, without forgetting the members of the Ph.D. thesis juries.

- Fabien Spindler and Giovanni Claudio were interviewed by TV Rennes about Pepper robot (https://www.facebook.com/166100743494694/videos/vb.166100743494694/959489554155805/?type=2&theater).

- Marie Babel participated to “15e Journée nationale des pôles de compétitivité” in March 2016 (Paris): HandiViz project was selected by the French Ministry of Finance

- Marie Babel participated to the Science Festival in October 2016 with an interview at “Village des Sciences” and a workshop for general public organized in Acigné near Rennes.

- Marie Babel participated to the “Convention Nationale des SATT” (October 2016, Paris).

- Marie Babel gave a talk on “HandiViz: a new driving experience” in October 2016, during the “Semaine des Technologies - Robotique et santé” organized at Insa Rennes.

- Vincent Drevelle participated to the “Journée science et musique” in Rennes, with an interactive demonstration of sound-based tracking of a micro aerial vehicle with a beam projector (in cooperation with the Panama team).


- Paolo Robuffo Giordano has given press releases on the activities involving formation control for multiple quadrotor UAVs to Émergences Inria, Sciences Ouest, and “Industrie & Technologies”.
LARSEN Team

9.3. Popularization

- Amine Boumaza is a member of the editorial board of “Interstices”.
- Vincent Thomas gave proposed tutorials on “physics simulation” and “reinforcement learning” during “journées ISN-EPI” (24th of Mars 2016).
- Vincent Thomas participated in the preparation of “Computer Science Exporoute” (conducted by Inria Nancy Grand-Est) planned for 2017.
- Jean-Baptiste Mouret wrote an article for “Interstices” (“Des robots qui s’adaptent aux dommages en seulement quelques minutes”).
- Jean-Baptiste Mouret helped Pierre Vandeginste (journalist) to write an article about his work in “La Recherche” (Dec. 2016); he also appeared in Science et Avenir, Arte Future Mag, Socialter, Telerama.
- Serena Ivaldi appeared in the following articles / gave the following interviews:
  03/2016: Pour la science, Quels obstacles à l’insertion des robots en société ? https://pbs.twimg.com/media/CceuEH3W4AEoNx-.jpg:large
LEMON Team

10.3. Popularization

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

- *Café Científico*, Aug. 2016, Instituto Francés, Santiago, Chile

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

Antoine ROUSSEAU is member of the editorial board of *Interstices*

Antoine ROUSSEAU co-authored the *Calendrier Mathématique 2017*
LFANT Project-Team

8.3. Popularization

D. Robert wrote with Sorina Ionica the chapter “Pairings” of the book Guide to Pairing-Based Cryptography [16] which will be published by CHAPMAN and HALL/CRC. This book aims to help Engineers understand and implement pairing based cryptography. In the Chapter Pairings D. Robert give a self contained definition and proof of the Weil and Tate pairing; including how to handle divisors with non disjoint support (this is often skipped in scientific papers but is important for practical implementations).

H. Cohen wrote a vulgarisation article [17] on Fermat’s last theorem. This article explain (through the example of congruent numbers) the role of elliptic curves and algebraic number theory in the solution of Fermat’s last theorem.

During the last PARI atelier four talks [19], [18], [20], [21] have been filmed and are available under a creative common licence. This will allow people from all the world to get started faster with PARI. The first two talks focus on setting up personal computers for the atelier and the new features of PARI. The next two are more technical and explain the new L-functions and modular forms features.
LIFEWARE Project-Team

9.3. Popularization

François Fages

- wrote a book chapter “AI and Biological Modeling” [17], for an encyclopedic book entitled “A guided tour to Artificial Intelligence Research” to appear next year,
- participated in the Colloque de Cérisy “Sciences du vivant, sciences de l’information”, 20 Septembre 2016, with a conference and an article [18] to appear in a book next year,
- wrote an article for ERCIM news [16],
- and received a schoolgirl for one afternoon in our research team.
10.3. Popularization

Vincent Claveau

An article entitled 'Vélos, bicyclettes et moteur de recherche', was published by ACFAS on its website.

An article entitled 'Déetecter l’intox sur Twitter’ was published in a special issue of the Dossiers de l’Université de Rennes 1.
9.3. Popularization

I. Boneva has supervised second year students from DUT while they conducted activities on introduction to programming to 9-10 years old students in Villeneuve d’Ascq.
M3DISIM Project-Team

9.3. Popularization

D. Chapelle, Debate on “Data sciences and personalized medicine” at Cité des Sciences (also on web-TV), Oct 9th
D. Chapelle, Roundtable in workshop “Mathématiques Oxygène du Numérique” (UPMC, Oct 21st)
MADYNES Project-Team (section vide)
10.3. Popularization

Activities are presented in chronological order:

- S. Alouf delivered a conference titled “Comment marche le Web ?” at Lycée Pierre et Marie Curie, Menton, for one classe of high school students (25 November 2016).
- D. Politaki participated to the “Fête de la science” at the Campus Valrose, Nice (13 October 2016) and at the Congress Center, Antibes Juan-les-Pins (22 October 2016). She animated the game “Datagramme” and the programming of Thymio.
- D. Politaki managed two sessions MEDITES in two middle schools (22 November 2016).
- D. Politaki participated to the Thymio competition (26 November 2016) which was organized by Hackathon Women Creativity 2016 in Nice.

D. Politaki is a member of MASTIC, a commission in charge of popularization and regional and internal scientific animation (since July 2016).
9.3. Popularization

- Juliette Chabassier took part in a round table around science professions in the high school of Valence d’Agen in March 2016.
- Juliette Chabassier shared her experience as a scientist during “Printemps de la Mixité” in May 2016.
- Juliette Chabassier participated in scientific “speed datings” during the “Filles et Maths” day in May 2016.
- Juliette Chabassier was co-responsible for a workshop around “Women in science” during Inria “Fête de la science” in October 2016.
10.3. Popularization


AURÉLIEN BELLET presented some of his work at the popularization seminar “30 minutes de sciences” and at an Assemblée Générale of Inria Lille - Nord Europe.


RÉMI GILLERON has participated at the forum “F O O R :: Forum Ouvert Oeuvres et Recherches” where he presented the research work done with PASCAL DENIS for the artwork “This is Major Tom to Ground Control”
MAGRIT Project-Team

9.3. Popularization

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

- Marie-Odile Berger and Gilles Simon wrote an article about augmented reality in Interstices [27].
- Erwan Kerrien is Chargé de Mission for scientific mediation at Inria Nancy-Grand Est. As such, he is a member of the steering committee of "la Maison pour la Science de Lorraine" 0, and member of the IREM 0 steering council. He also serves as the academic referent of an IREM working group aiming at introducing computer science in middle and high school curricula. Among other activities, he was also an associate researcher to a MATH.en.JEANS workshop, and he participated in the creation of a MOOC for teachers of the new ICN option (Informatique et Création Numérique - Computer Science and Digital Creation) at the beginning of high school curriculum.
- Gilles Simon participated to the “Fête de la science” (unplugged activities in computer science).
- Pierre-Frédéric Villard participated to open days and science festival in the IUT of Saint-Dié des Vosges. He presented augmented and virtual reality demos and their link to the high school mathematics program.
- Pierre-Frédéric Villard has been involved in the conception of the virtual visit for the Homo Numericus Exhibition (http://homonumericus.inria.fr).

0"Houses for Science” project, see http://maisons-pour-la-science.org/en
0Institut de Recherche sur l’Enseignement des Mathématiques - Research Institute for Teaching Mathematics
MAMBA Project-Team (section vide)
MANAO Project-Team (section vide)
MARELLE Project-Team

7.3. Popularization

Laurent Théry gave talks in the context of “Fête de la science”.

9.4. Popularization

- É. Cancès has delivered a conference in Nancy in November 2016, in the framework of the series of lectures “Sciences et société”.
- A. Levitt participated in the “Young doctors” session of the Salon Culture & Jeux Mathématiques in May 2016.
MATHNEURO Team (section vide)
MATHRISK Project-Team (section vide)
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.
MCTAO Project-Team

9.3. Popularization

Conference for high school students, "Ne votez pas, jugez !" (J.-B. Caillau), semaine des maths 2016, Lycée Charles de Gaulle (Dijon) and MASTIC initiative (Inria Sophia Antipolis).
10.3. Popularization

Lisl Weynans has co-organized the Journée "Filles et Maths, une équation lumineuse": may 11t 2016
Lisl Weynans has co-organized Journée Emploi Maths de l’Unité de Formation "Mathématiques et Interaction"
9.3. Popularization

M. Simon gave a talk at ESPE (Ecole Supérieure du Professorat et de l’Education) during the week "Semaine des mathématiques", about the mathematical properties of the official soccer ball. Marielle Simon is part of the program "MathenJeans".
9.3. Popularization

- Stefan Haar gave a talk entitled 'Post hoc sed non propter hoc, or: why you should care about causality', in the Seminar@SystemX series of IRT SystemX on September 14, 2016.
8.3. Popularization

Stéphane cotin gave invited talks at:
- the First European workshop on Nanomedicine, Modeling, Virtual Reality and Robotics applied to surgery (Strasbourg, 2016)
- the Business Engineering and Surgical Technologies symposium (Strasbourg, 2016)
- the OpenYourMind seminar (Paris, 2016)
- IHU Scientific meeting on registration and augmented reality (Strasbourg)

Members of the MIMESIS team contributed to the following events:
- presentation of our research activities during several IHU fellow meetings
- demonstration of our prototype of retina surgery training system during the national congress of ophthalmology (May 2016, Paris)
- demonstration of our prototype of retina surgery training system during the DMLA meeting (September 2016, Paris)
- demonstration of our prototype of retina surgery training system during the regional ophthalmology meeting (November 2016, Strasbourg)
MIMETIC Project-Team

10.3. Popularization

Franck Multon managed a 4 days Booth to present ergonomic work in MIDEST in Paris, with a plenary session conference about penibility at work, MIDEST December 2016.

Franck Multon and Richard Kulpa managed a 2 days Inria Booth to present VR and Sports in Futur en Seine in Paris, June 2016.

Ludovic Hoyet, Journées Scientifiques Inria 2016, exposé court en 180s, “Perceptual Effect of Shoulder Motions on Crowd Animations”.

MIMOVE Team (section vide)
MINT Project-Team

9.3. Popularization

- Rencontres Inria Entreprises (25 November 2016), Imaginarium.
- BOEUF project workshops, Introduction to PureData and digital orchestras @ La condition publique (Roubaix) and l’Imaginarium (Tourcoing) http://www.cristal.univ-lille.fr/oeuvres-et-recherches/2016/11/28/workshop-les-orchestres-numeriques-espace-recherche-scv/
10.3. Popularization

- S. Girard presented his research on extreme-value analysis at the “Conférence ISN et enseignement”, March 2016, video. He also gave a talk at the Institut de Maîtrise des Risques (IMdR) [38] on a similar topic.
- Julyan Arbel led the Math en Jeans teams at Lycée français Jean Giono, Turin, working on various subjects spanning from statistics, machine learning, to combinatorics and games.
Mjolnir Team

10.3. Popularization

- “Vers une meilleure appréciation des algorithmes qui nous entourent”, talk for Rencontres Inria Industrie, Plaine Image, Tourcoing, November: Fanny Chevalier
- Prospective talk on HCI as part of BeyondLab’s “Aux portes du futur” evening, November: Nicolas Roussel
- “Chorégraphie des Transitions animées”, talk for CRISTAL journée Recherche Innovation Création, Lille, October: Amira Chalbi-Neffati
- “Les objets deviennent intelligents, et nous ?”, talk at Lycée Diderot (Carvin) as part of Inria Lille’s “Chercheurs Itinérants” program, October: Nicolas Roussel
- “Efficacité et performance des transitions animées”, talk at EuraTechnologies (plateau Inria), March: Fanny Chevalier
- Presentation of the Mjolnir team, talk at EuraTechnologies (plateau Inria), January: Nicolas Roussel
10.3. Popularization

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

- Thierry Viéville is for 80% of his time involved in popularization actions.
- For all the team: participation to the “Fête de la Science” in an exhibition in the Scientific Museum Cap Sciences: http://www.bordeaux-neurocampus.fr/fr/divers/toutes-les-communications/com-2016/fete-de-la-science.html
MODAL Project-Team

10.3. Popularization

Christophe Biernacki has given about 10 talks during 2016 for institutions (Inria, universities, Ecole des Mines), companies and other related events. He gave also presentations towards students and industrials to the Xperium platform of the University of Lille about “Intelligence des données” (https://modal.lille.inria.fr/xperium/, http://learningcenters.nordpasdecalais.fr/innovation/fr/xperium). About 1,500 people came to this event during two years. He organized also a first short meeting in April 2016 in Lille for obtaining a feedback from company and academic users about the MASSICCC platform developped by the Modal and Select teams (https://massiccc.lille.inria.fr/#/). Here is the link towards this event: https://modal.lille.inria.fr/wikimodal/lib/exe/fetch.php?media=meeting_massiccc_7avril2016.pdf.

Sophie Dabo-Niang participates in the promotion of research among young children around a day of “Girls and Science, a light equation” organized in Lille (October 2016) and Senegal (Dakar, march 2016).

Benjamin Guedj has given a talk to high school students (“Terminale ISN”) at Euratechnologies. The talk consisted in an overview of of machine learning impacts our everyday lives and how mathematicians contribute to learning in the big data era.

Vincent Vandewalle has given one presentation towards students to the Xperium platform of the University of Lille about “Intelligence des données” (https://modal.lille.inria.fr/xperium/, http://learningcenters.nordpasdecalais.fr/innovation/fr/xperium). He also has animated a formation on probabilities and statistics for middle School mathematics teachers through the Maison Pour la Science (http://www.maisons-pour-la-science.org/node/10641).
10.3. Popularization


MONC Project-Team

9.3. Popularization

- Popularization article in a special edition of the journal "Tangente" devoted to mathematics in medicine. (S. Benzekry).
- S. Benzekry was interviewed by the journal "Sciences et Avenir".
- A. Collin is an active member of 'Femmes et Sciences' and gave several talks in this context (Printemps de la Mixité, talks in high schools...).
- O. Saut is a regular speaker at Entretien de l’Excellence (http://www.lesentretiens.org).
- O. Saut was a speaker at the "Forum des Métiers" in Collège Montaigne, Lormont.
8.3. Popularization

Xavier Descombes was invited to give a talk at "La fête de la science" in Juan Les Pins. The Morpheme team has animated a stand during the "fête de la science" in Juan Les Pins.
10.3. Popularization

Morpheo members have demonstrated the Kinovis platform to the general public on numerous occasions, and most notably for the "Fête de la Science".
10.3. Popularization

Demonstration at EHESP-University of Sorbonne- Paris Cité, March 2016 (A. Piquard-Kipffer).
Demonstration at LORIA’s 40th Anniversary, June 2016 (K. Deguernel, E. Vincent).
"Démixer la musique", Interstices, January 2016 (A. Liutkus and E. Vincent).
Intervention lors d’une action pour la Maison pour la Science en Lorraine au service des professeurs (A. Bonneau)
Démonstration lors de la journée Rencontre Inria Industrie sur le thème « Ed-Techs au service de e-Education », December 2016 (D. Jouvet)
MUSE Team (section vide)
MUTANT Project-Team (section vide)
9.3. Popularization

Jonathan Touboul has given a presentation in the framework of the “demi-heure de science” : Mathematical exploration of the brain activity (January 7th).

Frédérique Clément has given a 3h lecture on “Multiscale modeling of folliculogenesis in mammals” in the M2 master “Predictive & integrative animal biology” (PRIAM) of Université Paris-Saclay.
10.3. Popularization

- Martin Quinson is a scientific expert in a teaching manual of Computer Science for primary schools, authored within the "La main à la pâte" popularization network. This manual was released this summer.

- Martin Quinson co-founded a working group of the Société Informatique de France toward the creation of new unplugged activities to teach the informatics to pupils. This group met twice in Lyon this year, in April and November.

- Martin Quinson participated and co-organized to several workshops and open events where high-school students were invited to discover Computer Science (March at ENS Rennes, November on the Beaulieu campus). He was a scientific expert to the MathC2+ event at ENS-Rennes in June.

- Martin Quinson participated to the full day meeting “Splash Education” targeting at determining the fundamental programming concepts that should be taught to every pupils, co-located with the SPLASH conference http://2016.splashcon.org/track/splash-2016-splash-e. He organized the 3-days event on instrumented teaching of computer science, co-located with the Orphee-RDV event https://apprentissageinstrumentdelinformatique.wordpress.com/.

- Martin Quinson continued the development of the PLM web platform, which is an exerciser to teach programming to beginners. He also submitted several project applications to pursue this work in the future. Unfortunately, none of these applications have been accepted so far. Prof Peter Hubwieser (Technical University of Munchen, chair of didactics of Computer Science) visited us for two weeks in November. Developing the PLM and exploiting the data already gathered were central elements of this work meeting. A joint publication is currently prepared, targeting the ItiCSE’17 conference.
NACHOS Project-Team (section vide)
NANO-D Project-Team (section vide)
10.3. Popularization

The GTL webpage (http://gtl.inrialpes.fr/status) went public in November: more generally the traffic activities have been popularized via the following public talks.

10.3. Popularization

NEUROSYS Project-Team

https://www.youtube.com/watch?v=cOtGuvRW5A

Interview Huffington Post, Oct. 26, 2016 (L. Buhry)
(http://www.huffingtonpost.fr/2016/10/26/la-fille-du-train-creativite-imagination/)

Interview for Inria to introduce Neurosys’ research on Brain-Computer Interfaces, Oct. 2016 (L. Bougrain)
https://www.youtube.com/watch?v=DBajwAI9VEw at 5:38:10

Interview for the Regional TV news (JT 19/20 France 3 Lorraine): Brain-Computer Interfaces, Sept. 29, 2016 (L. Bougrain, S. Rimbert)

Talk during the National Brain Awareness Week: Brain, consciousness and waves, Mar. 18, 2016, Bibliothèque Multimédia Intercommunale, Epinal (L. Buhry, L. Koessler)

Interview for Radio CaraibNancy: Neuroscience in Lorraine, Mar. 16, 2016 (L. Bougrain, S. Caharel and L. Koessler)

Exhibit at Loria’s open day for master students and engineers: controlling a robotic arm using EEG, Apr. 9, 2015 (L. Bougrain, J. Nex)

10.3. Popularization


- Mediation: BeyondLab community. A co-working night event within BeyondLab on using “Living sensor” for water quality monitoring, featuring our PhD student Hafiz Ahmed (Lille, 16/03/2016).


- The book “Mathématiques pour l’ingénieur” (2009, ISBN : 978-9973-0-0852-7 (ATAN, 385 pages)) has been downloaded more than 65000 times.
NUMED Project-Team (section vide)
ORPAILLEUR Project-Team (section vide)
10.3. Popularization

Erven Rohou discussed the research axes of the team in the “émergences” newsletter [http://emergences.inria.fr/2016/newsletter_n43/L42-PACAP](http://emergences.inria.fr/2016/newsletter_n43/L42-PACAP).

Nicolas Kiss, Damien Hardy and Erven Rohou presented a poster at the “Rencontres inter-UMRs-DGA”, of the “Pôle d’excellence Cyber”.

Erven Rohou and Isabelle Puaut presented a poster (with ANR W-SEPT colleagues) at “Les rencontres du numérique de l’ANR”.
10.3. Popularization

10.3.1. Journée Science et Musique

**Participants:** Antoine Deleforge, Rémi Gribonval, Frédéric Bimbot, Romain Lebarbenchon, Adrien Leman, Nicolas Bellot, Clément Gaultier, Nancy Bertin, Nicolas Keriven, Ewen Camberlein, Luc Le Magoarou, Armelle Mozziconacci, Stéphanie Lemaile, Corentin Louboutin, Nicolas Tremblay, Corentin Guichaoua, Srdan Kitic.

*with contributions and support from:* Valérie Gouranton, Laurent Perraudeau, Nathalie Denis, Evelyne Orain, Agnès Cottais, and *many more.*

PANAMA coordinated the organization of a public event called “Journée Science et Musique” (“Music and Science Day”). 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 2016 hosted more than 500 visitors and was the official opening event of the “Festival des Sciences” week in Rennes.
9.3. Popularization

9.3.1. Gaël Varoquaux
- Unité ou Café, Inria Saclay Île de France
- Atelier IHEST Les mots du numérique - 17 novembre

9.3.2. Loïc Estève
Software Carpentry workshops:
- git course at UNIC in Gif-sur-Yvette March 29-30
- helper at "Scientific Programming with Python and Software Engineering Best Practices” workshop,
  April 28-29 at Télécom Paris
- git course at Proto 204, May 24-25

Mentor at Startup Weekend Artificial Intelligence, November 4-6.

9.3.3. Olivier Grisel
"La tête au carré" radio show on France Inter in January 2016 to share his expertise and opinion on the use
and impacts of Big Data and predictive algorithms ⁰.

PARKAS Project-Team (section vide)
PARSIFAL Project-Team (section vide)
PERCEPTION Project-Team (section vide)
PERVASIVE INTERACTION Team (section vide)
10.3. Popularization

10.3. Popularization

Hélène Sauzéon gave talks to the following events for professional or general audiences:

- “Handicaps et technologies d’assistance pour les personnes avec déficiences cognitives” at “Les outils numériques au service des personnes avec autisme”, on October 7th, at Hôpital de Niort, France.
- “Présentation de la solution DomAssist et ses effets sur le fonctionnement quotidien de la personne et ses aidant professionnel” at “Territoire et solidarité entre les âges : accompagnement du bien vieillir”, organised by Union Régionale des Fédérations des Centres Sociaux d’Aquitaine, on November 14th, in Lormont, France.
- “Collège + : un nouvel outil d’apprentissage”, at Semaine de la mémoire, organised by Observatoire B2V, on September 21st, at Musée CapScience, Bordeaux, France.

Nic Volanschi participated on October 13th to the “Science fest” at Inria Bordeaux, where he gave 4 workshop sessions on “Manual digital sciences” for children aged 11 to 15. These workshop sessions are aimed to communicate basic notions of computer science to young students by using manual games.
7.3. Popularization

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, and Étienne Miquey took part in the animation of the (computer science part of the) “Fête de la Science” event at the University Paris 7. Yann Régis-Gianas gave several presentations about “What is programming?” in primary and high schools of Paris and its region.
9.3. Popularization

David Sherman participated in popularization activities based on Thymio-II mobile robots for education, coordinated by the Mobsya association and EPFL (Switzerland). He helped organize a team in the R2T2 event (http://r2t2.org) on November 2, 2016. He contributed code to the Aseba project for piloting Thymio-IIs from the Scratch programming language, and with Thibault Lainé of Inria Bordeaux Sud-Ouest helped improve a photo-realistic simulator for multiple robots.
POEMS Project-Team (section vide)
POLARIS Team

9.3. Popularization

The POLARIS team is actively involved in various scientific popularization activities. In addition to participating in the Fête de la Science (Guillaume Huard, Florence Perronnin, Jean-Marc Vincent), the POLARIS team also participates in the organization of the “Conférence Inria”. Jean-Marc Vincent has also organized (and/or participated in) several training courses for computer science teachers (at a high school level) and has supervised several MathC2+ trainees.

Jean-Marc Vincent also organized the 2-day-long atelier “Computer Science without Computers” for elementary school students; the atelier was nominated for the Shannon trophy (awarded by the Institut Henri Poincaré).
9.3. Popularization

J.-C. Faugère and L. Perret wrote a paper “Le grand défi du post-quantique” for MISC (HS 13, April 2016).
POSET Team

10.3. Popularization

The development of the T-calculus has eventually led us to a piano & computer performance that is going to be performed on stage in February 2017 with the pianist Edwin Bugger, associate member of the PoSET project.
POTIOC Project-Team

10.3. Popularization

Figure 19. Teegi was demonstrated during several public events over the year, including “Fête de la Science” in La Cité des Sciences in Paris.

10.3.1. Science Festivals

Science Agora, Miraikan, Tokyo, Japan, November 2016 (Fabien Lotte)
Cartopartie, Fête de la Science, Bordeaux, October 2016 (Anke Brock)
Démonstration de Teegi, Cité des Sciences, Paris, retransmission en direct sur l’Esprit Sorcier, October 2016 (Jérémy Frey, Jelena Mladenovic, Thibault Lainé)
"Contrôler par la pensée: Apprenez comment fonctionne une interface cerveau-ordinateur en jouant à Tux Race et découvrez Teegi", Cap science, October 2016 (Jelena Mladenovic, Jérémy Frey, Thibault Lainé)

10.3.2. Popularization Talks

“Les Interfaces Cerveau-Ordinateur”, CogTalk, Bordeaux, October 2016 (Fabien Lotte)
TEDx UTC (Compiègne, France, 01/2016): "Touchez et entendre les cartes géographiques" https://www.youtube.com/watch?v=sr2l8PQg_2E&feature=youtu.be, (Anke Brock)
"Comment le numérique nous aide à changer", Séminaire Science et développement durable, Bordeaux, June 2016 (Pascal Guittion)
"Réalité virtuelle et réalité augmentée : quelles réalités et quels futurs ?", Séminaire Photonique et réalité virtuelle, Bordeaux, November 2016 (Pascal Guittion)
"Le numérique et ses sciences dans le réel", Séminaire national « Enseigner l’option Informatique et création numérique au cycle terminal », ISENESR (Futuroscope), November 2016 (Pascal Guittion)
Pint of Science, "Interfacer cerveau-ordinateur : Entre mythes et réalité", Bordeaux, May 2016 (Camille Jeunet)
10.3.3. Popularization Articles

"Mythes et réalités sur l’interaction cerveau-ordinateur", Livre "5 jeunes chercheurs d’avenir" (Prix de Thèse le Monde), Editions Le Pommier (Fabien Lotte)

10.3.4. Demonstrations

Inner Garden, Bordeaux Geek Festival (BGF), May 2016 (Joan Sol Roo, Julia Chatain).
Augmented Michelson Interferometer, Bordeaux Geek Festival (BGF), May 2016 (Benoit Coulais, David Furio)
Augmented Michelson Interferometer, Hall of ALPC region, June 2016 (David Furio)
Demonstration of Teegi, Colloque Robotique et Education, Bordeaux, June 2016 (Jérémy Frey, Thibault Lainé).
Demonstration of Teegi., Bordeaux Geek Festival (BGF), May 2016 (Thibault Lainé)

10.3.5. Women In Science

Femmes et Sciences Deputy Board Member (« suppléante au conseil d’administration »), since 2016 (Anke Brock)
Intervention in a high school in Valence d’Agen to present our research projects and career paths , March 2016 (Anke Brock with fellow members of Femmes et Sciences Aquitaine).
"Digit’elles -témoignages de femmes scientifiques” , Fête de la Science, Bordeaux, October 2016 (Anke Brock with fellow members of Femmes et Sciences Aquitaine)
Django girls, Django workshops for young participants, April and June 2016 (Julia Chatain)
Filles et Maths, Speed meeting with female highschool students ti speak about careers in mathematics, May 2016 (Julia Chatain)
Member of Inria Comité Parité et Egalité (Pascal Guitton)

10.3.6. Other

Conference on Brain-Computer Interfaces and how to become a research scientist, in a High School in Tulles, December 2016 (Fabien Lotte)
Radio interview on BCI for "L’œuf ou la poule", on CHOQ, a Montréal Radio from UQAM (Université du Québec à Montréal), Montreal, Canada, June 2016 (Fabien Lotte, Camille Jeunet)
Radio interview on BCI and VR on Radio Canada, in Vancouver, Canada, June 2016 (Fabien Lotte)
Radio interview about BCI and the Brain and Computers Digital Media Conference on the Vancouver-based Round House Radio, June 2016 (Fabien Lotte)
Nuit des Chercheurs, Cap Sciences, Bordeaux, September 2016 (Camille Jeunet)
9.3. Popularization

9.3.1. Interview

Privatics team has participated to an episode of X:enius entitled: "Données personnelles : à quel point sommes-nous prévisibles ?". It features an interview of Claude Castelluccia, Daniel Le Métayer and Mathieu Cunche. The episode was broadcasted the 12th december 2016 on Arte.

9.3.2. Articles

- D. Le Métayer in *France Stratégie, Algorithmes, libertés et responsabilités*, 10/03/2016.
- C. Castelluccia in *Le Monde*, *Que reproche-t-on au TES, le « megafichier » des 60 millions de Français*, 08/11/2016.

9.3.3. Conferences

- C. Castelluccia, *An Introduction to DataVeillance (Data + Surveillance)*, LIG UGA Keynote, 07/04/2016
- C. Lauradoux, *Email et vie privée: pourquoi utiliser GPG ?*, Cours Master 2, 01/12/2016
- C. Lauradoux, *Cryptographie et grands nombres*, Olympiades académiques de Mathématiques, 04/07/2016
- C. Lauradoux, *Cryptographie visuelle*, Collège/Lycée Jean PréVost, 01/06/2016
- C. Lauradoux, *Cryptanalyse*, stage MathC2+, 06/2016
- C. Lauradoux, *Protéger la confidentialité de ces messages*, Collège Paul Fort Is sur Tille, 04/10/2016
- C. Lauradoux, *Internet et vie privée*, Collège Poncet Cluses, 15/12/2016
9.3. Popularization

9.3.1. Seminars

- Karthikeyan Bhargavan: invited talks at SSTIC, EUROCRYPT, OAuth Workshop
- Bruno Blanchet: invited talks at John Mitchell’s 60th birthday workshop, Stanford University, CA (May 2016), Facebook, Menlo Park, CA (May 2016), and at University of Oslo (Dec 2016).
- Catalin Hritcu: invited talks at CEA List, MSR Redmond, Inria Gallium, Secure Compilation Meeting, ERC, Inria Prosecco, MPI-SWS
8.3. Popularization

Mazyar Mirrahimi gave interviews for radios, newspapers, magazines and websites (France Culture, Le Monde, La Recherche, Silicon, Industrie and Technologies).

Pierre Rouchon was invited by the "Département de Mathématiques Appliquées de l'Ecole Polytechnique" to give a talk entitled "Dynamique et contrôle des systèmes: du classique au quantique" for the students of Ecole Polytechnique (April 21, 2016).

Alain Sarlette is answering questions about quantum control and quantum computing on the website "ik-heb-een-vraag.be" where Flemish layman can ask questions to scientific experts.
RAP Project-Team (section vide)
10.3. Popularization

C. Calgaro is in charge of the communication of "Laboratoire Paul Painlevé" and she is in charge of the relation between the University of Lille 1 and high schools. Accordingly, she organizes various events which promote mathematics among young peoples like

- Les Mathématiques itinérantes [http://mathematiques.univ-lille1.fr/Ouvertures/Mathematiques-iterantes/]
- La semaine des Mathématiques [http://mathematiques.univ-lille1.fr/Ouvertures/Mathematiques-iterantes/]
- Stage en sciences pour les élèves de seconde [http://www.univ-lille1.fr/etudes/stagesdeconde]

Members of the team participate regularly in these actions.

Thomas Rey animates a Mathematics workshop (Math en Jeans) in the Adolphe Delégorgue middle school at Courcelles-lès-Lens.
10.3. Popularization

François Clautiaux is a member of the board of AMIES, the French Agency for Interaction in Mathematics with Business and Society. AMIES is a national organization that aims to develop relations between academic research teams in mathematics and business, especially SMEs.
REGAL Project-Team

9.3. Popularization

Julien Sopena animated an activity during the Science Festival 2016 at UPMC
10.3. Popularization

- Céline Grandmont
  - Conference: "Filles et Maths : une équation lumineuse", 60 students secondary school level, Feb 2016
  - Conference "Métier": Master 1 Maths students, UPMC, Nov 2016
- Irene Vignon-Clementel
  - Telerama, Interview (Richard Senejoux), Mar 10, 2016
  - Presentation, Inauguration of Inria Paris research center in presence of the Minister of Research and presidents of Universities, ANR, EPST, media, etc. Mar 10, 2016, Paris
  - High school conference, Mar 14, 2016, Lycée St François d’Assise, Montigny le Bretonneux
9.3. Popularization

An article about YoGoKo (spinoff RITS) was published by bpf france. “YoGoKo joue la connectivité routière”. Date: 09/02/2016.


Fawzi Nashashibi was interviewed in the “Usine Nouvelle” journal. Title: “À la recherche du véhicule vraiment autonome”. Date: 14/04/2016. Also: “Le véhicule autonome fait avancer la simulation”, pp. 48-49. Journalist: Frédéric Parisot.

Fawzi Nashashibi was interviewed in the “webcar center” (http://www.webcarcenter.com ). Title: “Conduite autonome : les premières voitures sont là”. Date: 10/02/2016. Journalist: Brice Perrin.

Fawzi Nashashibi was interviewed by “L’Automobile & L’Entreprise” (http://www.automobile-entreprise.com ). Journalist: Séverine Fontaine.


Fawzi Nashashibi was interviewed by "Innovation Review". Title: “Voitures autonomes : quel est le rôle du « deep learning » ?”. Journalist: Thibault Lescuyer.

Fawzi Nashashibi was interviewed by “Les Echos” newspaper. Title: “Google Car, le robot qui a remis la voiture autonome dans la course”. Date: 02-03 Sept. 2016, pp.10-11. Journalist: Jacques Henno.


Fawzi Nashashibi participated to a radio program on France Culture, La méthode scientifique, "Jusqu’où ira l’autonomie des voitures ?", September 28, 2016.

Fawzi Nashashibi participated to a round table on "Transports et énergies du futur" for the event Science en direct, organized at the Cité des sciences et de l’industrie, Paris, October 8, 2016.

10.3. Popularization

- Stéphane Ducasse and Damien Cassou were important contributors of the “Enterprise Pharo” book (http://files.pharo.org/books/enterprise-pharo/).
- Brice Govin and Vincent Blondeau participated in the contest “My thesis in 180 seconds”
10.3. Popularization

Frédéric Vivien gave two lectures about “Approximation algorithms” at the CIRM “Algorithmique et programmation” workshop for Maths teachers in Classes préparatoires aux grandes écoles. The two lectures were recorded and are available online (http://library.cirm-math.fr/Record.htm?Record=19278406157910966889).
10.3. Popularization

- André Chailloux gave a talk entitled *L’ordinateur quantique*, at Journées Art, Cerveau, Futur; Mouans-Sartoux, France, September 2016;
- Sébastien Duval gave a talk on cryptography at lycée des 7 Mares, Maurepas, December 2, 2016.
- Anne Canteaut has been involved in the AlKindi competition, which is a national competition on cryptanalysis for students in “Seconde” [http://www.concours-alkindi.fr/](http://www.concours-alkindi.fr/).
  
  The best teams from Paris have been visiting the SECRET project-team in June 2016 [https://www.youtube.com/watch?v=EVLHEOWAORc](https://www.youtube.com/watch?v=EVLHEOWAORc).
- Yann Rotella hold a stand to explain cryptography at Futur en Seine, Carreau du Temple, Paris, June 12, 2016.
SELECT Project-Team (section vide)
8.3. Popularization

- Maxime Amblard is scientific vice head of the editorial board of interstice jié, a french magazine popularizing computer sciences. He is the head of the rubric informatique —ou presque— dans les films.
- Maxime Amblard was scientific expert for the exhibition Homo Numericus.
- Bruno Guillaume was invited twice to present and lead an open discussion about Citizen Science: Séminaire ESPÉ DANE : la pépinière 4.0, in January, and Séminaire ESPÉ DANE : la pépinière 4.1, in October.
- Bruno Guillaume was invited in July to a panel discussion about Citizen Science, Les rendez-vous de Science&You.
10.3. Popularization

- A. Lazaric was interviewed for Inria-Lille magazine (December issue).
- J. Mary gave a 55 min talk in front of students of Lycée Sainte-Famille at Amiens.
- Ph. Preux gave 2 talks on “Artificial Intelligence” in a high-school in Villeneuve d’Ascq within the “Fête de la science”.
- O. Pietquin was interviewed by France Culture (Supersonic) on March 23rd, 2016
9.3. Popularization

F. Clément was member of the Organizing Committee of the 17e Salon Culture & Jeux Mathématiques, held in Paris, 26–29 May, 2016. He was member of the Editorial Board of the Maths Société Express booklet distributed during the exhibition. He was also coordinator of the Maths-Enterprises booth for AMIES.

F. Clément realized, with the Communication Department of the Inria Research Center of Paris, an exhibition illustrating the results of the Etude de l’impact socio-économique des mathématiques en France sponsored by AMIES, FSMP, and FMJH.

F. Clément coordinated an article about AMIES in the magazine PLOT published by the Association des Professeurs de Mathématiques de l’Enseignement Public.
SERPICO Project-Team (section vide)
SIERRA Project-Team (section vide)
SIROCCO Project-Team (section vide)
SISTM Project-Team

10.3. Popularization

Marta Avalos, Marius Kwémou and Perrine Soret animated "Mais qui est le coupable ? (Ou comment les maths contribuent à conduire une enquête épidémiologique)" for high school students through the "Fête de la Science" organized at Inria, Oct 2016.

Laura Richert participated to "Nuit Européenne des Chercheurs" with speed dating and a radio interview, Cap Sciences, Bordeaux, September 2016.
9.3. Popularization

General public (large audience magazines, television, videos):

- "Sur Internet, vos données personnelles valent de l’or", interview of P.Pucheral, Ca m’intéresse, November 2016.
- "Santé connectée, santé partagée", interview of P.Pucheral, Le Point, April 7th 2016.
SOCRATE Project-Team (section vide)
9.3. Popularization

Alain Girault gave a lecture to high school math professors, titled “Multi-core architectures, reliability, and optimization” (ISN conference cycle, Grenoble, February 2016). http://www.canal-u.tv/video/inria/architectures_multi_coeurs_fiabilite_et_optimisation.20829
9.3. Popularization

- Assia Mahboubi has written a paper [8] for the quarterly journal of the Royal Dutch Mathematical Society.
- Alin Bostan has given a talk at the *Mathematic Park* seminar at IHP, Paris, on January 23rd 2016.
SPHINX Project-Team

10.3. Popularization

Karim Ramdani has given several talks at Université de Lorraine to raise researchers awareness on the risks of author-pays publication model (for more information on economic models of scientific publishing, see http://iecl.univ-lorraine.fr/~Karim.Ramdani/KR_BIB/AUTEURS.html).

Thomas Chambrion gave a presentation of applied mathematics at Lycée Poincaré (Nancy) in April 2016.
10.3. Popularization

Romain Rouvoy is in charge of a demonstrator of APISENSE® as part of the Xperium initiative of the LILLIAD Learning center Innovation at the University of Lille 1.

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 classrooms (3ème) have been visited. The theme of the visit was crowd-sensing and data gathering from mobile devices.
9.3. Popularization

François Brémond was invited to give a talk at Conférence des métiers at International Lycée (CIV) in Sophia, January 2016.
François Brémond was interviewed by the agence Citizen Press February 2016.
François Brémond was invited to give a talk at the Artificial Intelligence Workshop Meeting Amadeus - Inria, June 2016.
François Brémond was invited to give a talk at la rencontre Inria Industrie Ed-Tech, 1 December 2016.
François Brémond has published an article in ERCIM news, December 2016.
10.3. Popularization

STEEP team has organized a series of conferences entitled “Understanding and Acting” (six conferences in 2016). The conferences have been filmed, edited and posted on the video-sharing website, YouTube. A total of more than 500 people have attended to the conferences. The conferences received more than 2000 YouTube views (December 2016).

https://www.youtube.com/channel/UCJbcXCcOA63M8VMysAbmt_A
https://team.inria.fr/steep/les-conferences-debats-comprendre-et-agir/

Emmanuel Prados gave a “conférence-débat” at “Marie Reynoard” High school on “Sustainable development, territorial governance and democracy” (Villard-Bonnnot, France, 16th of December, 2016).

Emmanuel Prados gave a conference at the “Café In” of Inria Sophia-Antipolis entitled “Comprendre les phénomènes d’effondrement de sociétés. Quel avenir pour la nôtre ?” (Sophia-Antipolis, France, 10th of November, 2016).

Emmanuel Prados has organized a workshop in collaboration with the EP SCOT Grenoble on the land-use and transport modelling and on its potential application to the follow up of the Grenoble’ SCOT project (Grenoble, France, 14th of October, 2016). Representatives of all the main political and administrative authorities of Grenoble area attended to this workshop (Région Rhône-Alpes, Département of Isère, Grenoble-Alpes Métropole, AURG, municipalities communities of Grenoble employment catchment areas).
9.3. Popularization

- Samuel Thibault made an Inria talk about « Building Debian/Ubuntu packages to make it easy for users to install your software »
10.3. Popularization

Nathalie Bertrand gave an introductory talk on graph theory and its use to solve practical problems, to grad school students following the ISN (Introduction aux Sciences du Numérique) courses.
9.3. Popularization

- Invited talk at the Telecom ParisTalks on "De la voiture connectée à la voiture autonome", "Le véhicule autonome, un véhicule ultra-communicant", March 2016, Paris, France, JM. Bonnin
- Invited talk at the A3C7 public event: "L'automobile intelligente et communicante: Carminat, GPS et demain?", "L'automobile communicante dans la ville", June 2016, Cesson-Sévigné, France, JM. Bonnin
- Invited talk at the workshop "Atelier Cybercriminalité dans les transports - Véhicule autonome et transport connecté : quelles stratégies de fiabilité et de sécurité ?", "Sécurité des Communications pour les ITS", June 2016, Angers, France, JM. Bonnin
- "Les véhicules autonomes seront communicants?, Revue TELECOM 182, Oct 2016, JM. Bonnin
- Special issue TPC for Revue TEC mobilité intelligente : "Routes & Véhicules : Quelles Connexions ?", Nov 2016, JM. Bonnin
- "Standards et ITS : vers un écosystème ouvert ?", Revue TEC Mobilité intelligente, Nov 2016, JM. Bonnin
- Invited talk "Le logement évolutif, Michele Dominici", Matin de l’aura angevine, Jan 2016, Angers
- Invited talk "Ville et Habitat intelligent : des innovations au service du vivre-ensemble ?", Michele Dominici, Feb 2016, La Friche la Belle de Mai, Marseille
- Invited talk "L'habitat d’hier, d’aujourd’hui et de demain, intervention de Michele Dominici", Apr 2016 dans le cadre du Printemps du Développement Durable, Languieux
- Ecole d’été "Ecologie et biens communs", Université de Bretagne Occidentale, Sept 2016, Michele Dominici
TADAAM Team

10.3. Popularization

Brice Goglin is in charge of the diffusion of the scientific culture for the Inria Research Center of Bordeaux. He organized several popularization activities in the center. He also gave several talks about computer architecture, high performance computing, and research careers to general public audience, school students, teachers, or even to non-expert Inria colleagues.

Brice Goglin was involved in the design of the section about fundamentals of computer science in the 2017 massive open online course that will help teachers of the new ICN section in schools (Informatique et Création Numérique). It was filmed for 10 video sequences (about an hour in total).

François Pellegrini was filmed during a 3-hour conference on author’s rights, in the context of the MAPI’Days, to serve as an on-line training for personnel and students of Université de Bordeaux (https://fad.u-bordeaux.fr/course/view.php?id=740).


François Pellegrini is the co-author of a booklet on free/libre software licenses edited by Pôle Systematic Paris Région & Pôle Aquinetic, which is now in its second edition (http://systematic-paris-region.org/sites/default/files/content/page/attachments/LivretBleu_Juridique_GT-LogicielLibre_Systematic_Mai2016_web.pdf).

In the context of the decree authorizing the TES (Titres Électroniques Sécurisés) file, François Pellegrini published a set of three blog posts (starting with http://www.pellegrini.cc/2016/11/la-biometrie-des-honnêtes-gens/), which have been cited and linked by several French newspapers (Libération, Mediapart, NextInpact). He also participated in a debate on the same subject, organised by the Ligue des droits de l’Homme de Gironde (http://ldh-gironde.org/jeudi-15-decembre-2016-a-18h30-rencontre-debat-autour-du-mega-fichier-tes/).

François Pellegrini delivered a talk on Freedom and the ethics of informatics during a seminar on Technologies, ethics and cognition organized by the bouddhist group Dhagpo Bordeaux, in partnership with Cap Sciences and Université de Bordeaux (http://www.dhagpo-bordeaux.org/seminaire-technologies-ethique-cognition/).

François Pellegrini was filmed, during an interview on Innovation and free/libre licenses, for the ULab Innov+ MOOC.
10.3. Popularization

- Skyfall : Tombé du ciel, J.-L. Lanet, Interstices, 2016 In this publication we revisit the movie Skyfall and explain on which scientific background rely some elements of the movie.
- FIC 2016 Internet des objets : la nouvelle fragilité ? We have been invited to participate at a panel with layers, IoT designer to discuss the security of the IoT.
- Atlantico, Et si les objets connectés étaient la plus grande faille qu’entreprises et particuliers pouvaient offrir aux hackers ? January 2016. In this interview we explain that the security is not the main concern of low end IoT, which is not the case with high end IoT.
10.3. Popularization

- **Yann Ollivier** coordinated, with IHP, numerous activities for the centenary of Claude Shannon, including a public exhibition at the Musée des Arts et Métiers, a cycle of public conferences, a contest for teachers on the best IT class project, and a workshop on the current state of information theory.

- **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).

- **Aurélien Decelle**, participation to "la fête de la science" animating a presentation of arduino to high school students and families at Inria Turing.

- **Paola Tubaro**, invited talk on "Online social networks and eating disorders", ACT eating disorders association, Nîmes, 5 Feb.; invited talk on "Are we all digital laborers?", Autonomy salon of urban mobility, Paris, 8 Oct.; public interview, "L’économie peut-elle être collaborative? Rencontre avec la sociologue et chercheure Paola Tubaro". Montréal, 2 Nov.; panelist at the round table "Big data, que fait-on de nos données?", organized at Museum of civilization, Québec, 3 Nov.; co-animator, workshop on big data in the "International science and society forum" for high school students, Québec, 4-6 Nov.; panelist at the round table "L’économie peut-elle être vraiment collaborative ET sociale et solidaire?", Ministry of the Economy, Paris, 13 Dec.

- **Paola Tubaro**, training on the digital society and its effects on labor and the economy, for union leaders (CGT, 27 Apr., CFDT, 23 Jun).


- **io.datascience** notable presentations at: CNRS-Inria day data4ist : exploration et analyse des sources de données pour la recherche et ses environnements (May 2016) ; Futur en Seine 2016 (Juin 2016) ; DGESIP/MiPNES seminar Normes et échanges de données : où en est-on ? (September 2016).
TAPDANCE Team (section vide)
10.3. Popularization

- Maintenance of the global constraint catalogue.
TEA Project-Team (section vide)
THOTH Project-Team (section vide)
TITANE Project-Team

10.3. Popularization

Pierre Alliez participated to the "Fête de la science" in Juan-les-Pins, October 22 and 23. He also gave two talks in high schools: April 28 in Celony, and February 25th in Aix Valabre, and organized a workshop for MathC2+ in June.
TOCCATA Project-Team

10.3. Popularization

- A. Charguéraud is one of the three organizers of the Concours Castor informatique [http://castor-informatique.fr/]. The purpose of the Concours Castor is to introduce pupils (from CM1 to Terminale) to computer sciences. 475,000 teenagers played with the interactive exercises in November 2016.

- S. Boldo is a speaker for a MOOC for computer science teachers. She was also invited to Poitiers in November 2016 to discuss with teachers and present this MOOC.

- S. Boldo was invited to a panel about teaching computer science before university in Besançon in June 2016 during the GDR GPL days.

- During the “Fête de la science” on October 14th to 16th, S. Boldo gave several talks about computer arithmetic to teenagers and F. Faissole run a stand about an introduction to programming with robots.

- S. Boldo and F. Voisin did an introduction to computer science with an activity on computer hardware as a 1-hour extracurricular activity in schools for pupils in CM1-CM2 on October 4th.

- S. Boldo gave a talk during a girls & maths weekend on November 22nd. See [http://www.animath.fr/spip.php?article2897&lang=fr].
TONUS Team (section vide)
9.3. Popularization

- D. Talay participated in a scientific France Culture radio program in December.
TROPICAL Team

10.3. Popularization

- J.P. Quadrat:
  - Webmaster of the site http://www.maxplus.org, dedicated to max-plus algebra.
TYREX Project-Team (section vide)
10.3. Popularization

- Hervé Rivano has been involved in several popularization actions, in particular with the Grand Lyon metropolis (on air quality monitoring, smart cities infrastructure), SPL Lyon Part Dieu (on sensors networks), the TUBA (on sensors, mobility, networking), and Cité du Design et de l’Industrie.

- Hervé Rivano was a panelist at a public debate on “revolutions in education, culture, thinking and public space”.
VEGAS Project-Team (section vide)
VERIDIS Project-Team (section vide)
9.3. Popularization

- Olivier Ali is a member of the writing committee of the newsletter of the Sophia-Antipolis Méditerranée Inria Centre.
- High School: Christophe Godin gives regular 2h classes at Lycée Pompidou (Montpellier) and in other Lycées.
- Christophe Godin gave two invited seminars in the context of the Maths Week (March), at the Lycée International de Valbonne, France.
10.3. Popularization

- Inria demonstration stand, Journées Françaises de Radiologie.
WHISPER Project-Team

10.3. Popularization

10.3.1. Talks

- Julia Lawall: Prequel, 2016 OSADL networking day.
10.3. Popularization

- Participation to the round table on "L’IA est-elle réservée aux GAFA", NUMA, June 2016 (J. Ponce).
- Participation to the round table on "Fictions, magie numérique et réalités", Post-digital program, ENS/PSL Research University, October 2016 (J. Ponce).
- Debate with Jacques Attali, "Intelligence Artificielle, science avec conscience?", "Intelligence Artificielle : de la technique au business" Conference, December 2016 (J. Ponce).
- Participation to the round table on AI, Liberté Living Lab, December 2016 (J. Ponce).
- Participation to the round table on ethics at the Senate’s public hearing on Artificial Intelligence, January 2017 (J. Ponce).
- Interview on Nolife 56Kast (https://www.youtube.com/watch?v=8UgH8_J2ugU) (J. Ponce).

WILLLOW Project-Team
10.3. Popularization

Catherine Faron-Zucker: Article on the Web of Data in the Interstices online journal of scientific culture ⁰.

Fabien Gandon:
- Les Révolutions de la Planète Web, Lycée Calmette, – Nice – April 26th.
- Retour d’expérience sur le Mooc Web Sémantique, Journée Pédagogie innovante June 6th.
- SPARKS Day: How to supervise your supervisor?
- Meeting ”Alumni” with students from Insa Rouen.

Alexandre Monnin: Café-in (June 2): *Transition numérique et effondrement écologique : quel monde d’après ?*
Stage Maths C2+ (June 16): same presentation as above. Invitation by the FING to address the issues of “Small Science”.

⁰https://interstices.info/jcms/d_80071/le-web-de-donnees
XPOP Team (section vide)
10.3. Popularization

F. Masseglia is now “Chargé de mission pour la médiation scientifique Inria” and heads Inria’s national network of colleagues involved in science popularization.

Zenith has major contributions to science popularization, as follows.

10.3.1. Code Teaching for Kids

Teaching code is now officially in the school programs in France. Class’Code is a PIA project that aims at training the needed 300,000 teachers and professionals of education France. The project is a hybrid MOOC (both online courses and physical meetings).

Along with Class’Code, the association “La main à la pâte” has coordinated the writing of a school book on the teaching of computer science teaching, with Inria (Gilles Dowek, Pierre-Yves Oudeyer, Florent Masseglia and Didier Roy), France-IOI and the University of Lorraine. The book has been requested by and distributed to 15,000 readers in less than one month.

F. Masseglia is giving a doctoral training at different doctoral schools in Montpellier, in order to train facilitators for helping teachers and people of the education world to better understand the "computational thinking". So far, 12 people have been trained. He is also a member of the management board of “Les Petits Débrouillards” in Languedoc-Roussillon and the scientific responsible for school visits in the LIRMM laboratory.

10.3.2. Science Outreach

In the context of the Floris’tic project, A. Joly participates regularly to the set up of popularization, educational and citizen science actions in France (with schools, cities, parks, etc.). The softwares developed within the project (Pl@ntNet, Smart’Flore and ThePlantGame) are used in a growing number of formal educational programs and informal educational actions of individual teachers. For instance, Smart’Flore is used by the French National Education in a program for reducing early school leaving. Pl@ntNet app is used in the Reunion island in an educational action called Vegetal riddle organized by the Center for cooperation at school. It is also planned to be used in a large-scale program in the Czech republic that is being finalized (in 40 classrooms). An impact study of the Pl@ntNet application did show that 6% of the respondents use it for educational purposes in the context of their professional activity. The Inria movie “Pl@ntNet, the application that helps people identify plants” enjoyed about 350 thousand views on Youtube.

10.3.3. Events

Zenith participated to the following events:

- F. Masseglia co-organized and co-animated the Inria’s stand at “La fête de la science”, Montpellier, held by Genopolys (a science village).
- F. Masseglia is member of the project selection committee for “La fête de la science” in Montpellier.
- M. Servajean and A. Joly animated a stand at “La fête de la science”, Montpellier, held by the LIRMM laboratory.
- A. Joly and J. Champ participated to the set-up of a Pl@ntNet demo within the French pavillon at the Universal Exposition hold in Milan (about 2M visitors on the French pavillon).
- As a member of the organizing committee of the Floris’tic project, A. Joly participated to several popularization and educational actions in collaboration with Tela Botanica NGO (cities, parks, schools, etc.).
- P. Valduriez published an article in Interstices on “the data in question” [58].