



RESEARCH CENTER

FIELD

Activity Report 2015

Section Popularization

Edition: 2016-03-21

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ABS Project-Team

8.3. Popularization

Dorian Mazauric. Dorian is a member of the group of Médiation et Animation des MATHématiques, des Sciences et Techniques Informatiques et des Communications (MASTIC), Inria Sophia Antipolis - Méditerranée. He participated to the following events:

- 12-16/10/2015: Fête de la Science at collège Yves Montand, Vinon-sur-Verdon. *Graphes et algorithmes pour tous*. Organized by Institut Esope 21.
- 13/10/2015: Conference at collège Yves Montand, Vinon-sur-Verdon (avec Frédéric Havet, COATI project-team). *Présentation du métier de chercheur*. Organized by Institut Esope 21.
- 10-11/10/2015: Village des sciences et de l'innovation au Palais des Congrès d'Antibes Juan-les-Pins. Fête de la Science 2015. *Graphes et algorithmes pour tous*.
- 17/06/2015: Stage MathC2+ à Inria Sophia Antipolis - Méditerranée. *Théorie des graphes et algorithmique*.
- 18/03/2015: Conference at lycée Henri Matisse de Vence. *La théorie des graphes et ses applications dans les réseaux*. Dans le cadre du dispositif régional "Science Culture".
- 17/12/2015: Presentation at école élémentaire Sartoux, Sophia Antipolis (classe de CM2). *La magie des graphes et du binaire, algorithmes et jeux*. This presentation is part of the cycle ASTEP (Accompagnement en Sciences et Technologies à l'École Primaire).
- 14/12/2015: Presentation at école élémentaire de Montaleigne, Saint-Laurent-du-Var (five classes). *La magie des graphes et du binaire, algorithmes et jeux*. This presentation is part of the cycle ASTEP (Accompagnement en Sciences et Technologies à l'École Primaire).

ACUMES Team (section vide)

AIRSEA Team

10.3. Popularization

- A. Vidard has Animated the stand Inria at the exposition “Solutions - COP 21”, December,9, 2015
- A. Vidard has given a Conference «Le numérique au service de l’observation et de l’anticipation des changements climatiques» at the Exposition “Solutions - COP 21”, December,9, 2015
- C. Prieur has given an interview to Interstices.info https://interstices.info/jcms/p_86521/mieux-modeliser-le-climat-grace-aux-statistiques
- E. Blayo participated to a Journée numérique, at the French Senate (Paris), on Feb. 11th, 2015. http://www.senat.fr/evenement/journee_numerique_inria.html
- E. Blayo gave several outreach talks, in particular for high school students and for groups of teachers.
- M. Nodet co-organises a year-round weekly math club in two secondary schools, where pupils research open mathematical problems.
- M. Nodet organised a two-month weekly meeting at a secondary school to explain mathematical research, in particular modelling for ocean and climate.
- M. Nodet gave an outreach talk about maths and oceanic currents in a secondary school during the mathematical week 2015.
- M. Nodet wrote, with J. Ehrel, two outreach papers for Interstices about glaciology and inverse problems [32], [31].
- M. Nodet gave an outreach talk about mathematical modelling for the environment at the IREM Lille 2015 conference [33].
- Several members of the AIRSEA team have contributed to the 2015 Science Festival through an information stand entitled "Understanding oceanic and atmospheric circulations".
- 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.
- Ch. Kazantsev and E. Blayo participate in the creation of "La Grange des maths" in Varcès
- Ch. Kazantsev has organized two stages of one or two days for children 14 or 15 years old during the holidays in the framework of "MathC2+", participation in these stages for one or two animations (in calculus and in modelisation), 2x2h for each animation
- A. Vidard gave an outreach talk at the Summer school “Traitement du signal et des images”, Peyresq, juin 2015
- M. Nodet and Ch. Kazantsev are involved in an IREM group which aims to bring interdisciplinarity into secondary school curriculum and proposes activities for teachers.
- M. Nodet co-organised a two day training session for secondary and high school teachers, about modelling and mathematics for the newly created Maison Pour la Science Alpes Dauphiné.
- M. Nodet is involved in various events and groups related to pedagogy at university levels.

ALF Project-Team (section vide)

ALICE Project-Team

9.3. Popularization

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

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

ALPAGE Project-Team (section vide)

ALPINES Project-Team (section vide)

AMIB Project-Team

8.3. Popularization

AMIB animated the *Construisons les ARN* booth at *Fête de la Science*, October 2015, <http://www.inria.fr/centre/saclay/agenda/fete-de-la-science-2015> with the participation of Y. Ponty, M. Régnier, A. Héliou, A. Héliou and A. Saaidi.

ANGE Project-Team

10.3. Popularization

11/06/15 - Futur en Seine (Cap Digital): B. di Martino, M. Parisot and J. Sainte-Marie were present during the numerical festival

24/09/15 - 6th Plenary Research Data Alliance (Cap Digital): N. Aïssiouene, B. di Martino, Y. Penel and J. Sainte-Marie contributed to the Inria stand

9-11/10/15 - Fête de la Science: all the members of the team run the ANGE stand to present scientific works related to water

07-10/12/15 - Solutions COP21: N. Aïssiouene, E. Nayir, M. Parisot, Y. Penel and J. Sainte-Marie participated to the exhibition at the Grand Palais to show the application of applied mathematics to climate issues

ANTIQUE Project-Team (section vide)

AOSTE Project-Team (section vide)

APICS Project-Team

9.3. Popularization

- M. Olivi is president of the Committee MASTIC (Commission d'Animation et de Médiation Scientifique) <https://project.inria.fr/mastic/>. She is responsible for Scientific Mediation.

ARAMIS Project-Team

10.3. Popularization

Fabrizio De Vico Fallani was interviewed for the French TV program “Zone Interdite” (M6) about the project on Brain Computer Interfaces. The video of the interview is available at <https://www.youtube.com/watch?v=BmGiaPG9cnA>

ARIC Project-Team

10.3. Popularization

Nicolas Brisebarre co-organizes scientific conferences, called «Éclats de sciences», at Maison du Livre, de l'Image et du Son in Villeurbanne. Around three conferences take place per year.

Nathalie Revol is a member of the steering committee of the MMI: Maison des Mathématiques et de l'Informatique. She led a "Coding morning" for Inria assistants at Montbonnot (February 2015). She gave two conferences for high-school teachers (Montbonnot, February and Grenoble, May 2015). As an incentive for high-school pupils, and especially girls, to choose scientific careers, she gave talks at Lycée Simone Veil (Châtillon d'Azergues) and Mondial des Métiers (both in March 2015). She gave conferences for Rallye des Maths (May 2015) and during the Science Fair (2 high-school classes, October 2015). During the Science Fair, she was also present one afternoon at Médiathèque du Bachut - Lyon 8e. She presented computer science unplugged for primary school pupils (CM1, École Guilloux, St-Genis-Laval: 8 lectures of 45mn each) and computer science plugged (CM2, École Guilloux, St-Genis-Laval: 10 lectures of 1h in 2015-2016, 2 classes). She presented this work during Forum Maths Vivantes (October 2015). She also met people from Ébulliscience and FERS (Fondation Entreprise Réussite Scolaire) to give advice on their projects of popularization of computer science towards primary schools and high school pupils.

ASAP Project-Team

9.3. Popularization

Anne-Marie Kermarrec wrote three articles on women in computer science: on the blog of the SIF Binaire in March 2015.

ASCLEPIOS Project-Team

9.3. Popularization

Maxime Sermesant gave a presentations about research and medical imaging at Lycée Bristol in Cannes.

ASCOLA Project-Team (section vide)

ASPI Project-Team (section vide)

ATEAMS Project-Team

9.3. Popularization

- Ali Afroozeh and Anastasia Izmaylova: “Meerkat parsers: a general parser combinator library for real programming languages”, Scala Days 2015, Amsterdam, The Netherlands.
- Paul Klint: “Paul Klint in RTL Nieuws over het nieuwe betalingssysteem van het pgb” (radio interview).
- Paul Klint: “De evolutie van codetaal”, media appearance, NRC Handelsblad
- Paul Klint: “Première internetfilm over Nederlands informatica erfgoed”, media appearance, Automatisering Gids.
- Paul Klint: “Remembering Arra: a pioneer in Dutch computing”, media appearance, <http://www.engineersonline.nl/>.
- Davy Landman: “Let’s talk about complexity”, Devnology software development community talk, Amsterdam, The Netherlands.
- Tijs van der Storm: “Opportunities and Risks of MDSE: experience with Derric, a DSL for Digital Forensics”, Bits&Chips industry conference.
- Jouke Stoel and Tijs van der Storm: “Hack Your Language with Rascal”, workshop at Joy of Coding conference, Rotterdam, The Netherlands.
- Tijs van der Storm, “Live Little Languages”, JBI Colloquium, Groningen, The Netherlands.
- Jurgen Vinju: “Public/Private Collaboration {in,for,with} Software Engineering”, 21st Annual Conference of the European Association of Research Managers and Administrators, Leiden, The Netherlands
- Jurgen Vinju: OSSMETER Pitch EU Concertation Meeting - Turning cloud research into innovative software & services, March 25th 2015, Brussels, Belgium.
- Jurgen Vinju: Challenges and Opportunities of Big Software-based Innovation NWO Big Software Match Making Day, July 1st, 2015, Utrecht, The Netherlands.

ATHENA Project-Team

9.3. Popularization

Maureen Clerc gave a conference at the TedX Cannes event in March 2015 (Youtube video link: <https://youtu.be/z5AO-603AmE>).

ATLANMODELS Team (section vide)

AVALON Project-Team

10.3. Popularization

Eddy Caron has participated to the following interview:

- Interview for NSmag N°9, Editeur: Imaginove. «Pipeline de production: Optimisation des temps de calcul et parallélisme». January 2015.

Laurent Lefevre has participated to the following interviews and publications :

- Interview for Sciences pour tous, "Le numérique écologique, c'est possible ?", "A digital ecological world, is it possible ?", September 2015.
- Interview : "Internet au bord de la saturation ?", Le MAG de la Science, Science et Vie TV, 26 Septembre 2015
- Interview : "Comment Internet pollue (vraiment) la planète", BFM Business, May 29, 2015
- Interview Industrie et Technologies : Un blackout d'Internet en 2023 ? 5 raisons de ne pas y croire", May 13, 2015
- Interview in "Le Monde" NewsPaper : "Internet congestionné d'ici à 2023 ? Pas si vite !", May 12, 2015
- Interview in "#2020 program", "Internet Crunch" : La mort du web est pour 2023", Mouv' Radio, May 12, 2015
- Combined Short papers in "Liberation NewsPaper" and "CNRS Le Journal" : "Le Big Data est il polluant ?", Laurent Lefevre, Jean-Marc Pierson, April 3, 2015
- Interview in Sciences et Avenir Journal : "Coup de chaud sur les data centers", Number 816, February 2015

Olivier Glück has participated to the following interview:

- Interview for Radio France Mouv in LE 20#20 radio broadcasting on "La mort du web & Naruto", 12 mai 2015 20h30. Podcast <http://www.mouv.fr/player/reecouter?play=198336>

AVIZ Project-Team

9.3. Popularization

Aviz members have been involved in several popularization activities:

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

AYIN Team

10.3. Popularization

- Paula Craciun and Josiane Zerubia wrote a brief scientific popularization article entitled "high resolution satellite imaging" for the book "Mathematics of Planet Earth" published by SIAM in 2015.
- Ihsen Hedhli and Josiane Zerubia hosted in AYIN team during one full day, a schoolboy from "Collège l'Archet", Nice, and a schoolgirl from "collège l'Eganaude", Biot, France. Furthermore, Josiane Zerubia was in charge of the schoolboy internship at Inria-SAM during one week in December 2015.
- Josiane Zerubia provided Hachette publisher with a land cover classification image obtained by an energy minimization based method to make the front cover of a text book of Physics in Ivory Coast.
- Josiane Zerubia participated in the Women in Computer Vision workshop at CVPR' 15 in Boston, in June [<https://sites.google.com/site/wicv2015/home>]. She was the mentor of 4 female PhD students from USA, Taiwan, PR China and Sri Lanka, during the dinner organized afterwards.
- Josiane Zerubia presented Inria and Inria-SAM to interested PhD and post-doc students at both SUPCOM Tunis in Tunisia and Trinity College Dublin, Ireland.
- Josiane Zerubia is organizing a monthly scientific seminar at Inria-SAM with national and international speakers (see [<https://team.inria.fr/ayin/ayinseminars/>]).

BEAGLE Project-Team

9.3. Popularization

- Eric Tannier gave a series of three lectures to the “Université populaire de Lyon”, entitled “Biocritique”

BIGS Project-Team

10.3. Popularization

- A. Gégout-Petit: manager of the project "ZOOM des métiers des mathématiques et de l'informatique" brochure and videos about 22 professionals in mathematics and computer science in order to promote these two domains with young people. <http://metiers-mathsinfo.fr/>
- S. Ferrigno: Advisor of a group of students, "La main à la Pâte" project, elementary schools, Nancy, January-June 2015
- S. Ferrigno: Advisor of a group of students, "La main à la Pâte" project, Institut médico-éducatif (IME), Commercy, September-December 2015
- R. Azaïs: Animation of a workshop "MATH.en.JEANS", Collège George Chepfer, Villers-lès-Nancy
- P. Vallois: popularizing talk at MJC de Toul

BIOCORE Project-Team

10.3. Popularization

The activities related to microalgae have generated many articles in national newspapers (Le Monde, Nice Matin, La Principauté, ...), and broadcasts on national TV (France 3, France 2, Arte). Several articles were written by the team members to explain the hurdles and potential of microalgae [77].

Biocore received an award from the Alpes-Maritimes department for its activities in sustainable development. Moreover, Biocore took part to the COP21 Inria stand, where the challenges for the use of mathematics dedicated to microalgae were presented. Biocore was involved in the "Spring of Researchers" and in the "Fête de la Science", the latter through Stefano Casagrande in the framework of his regional grant.

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

S. Touzeau, L. Mailleret, and F. Grogard gave talks on the importance of modelling during the Modelling day of UMT Fiorimed.

F. Mairet gave a talk during the Mediterranean Days (Feb 20, 2015; <http://leat.unice.fr/MEDDAYS2015>), to present Biocore's activities to various students from Greece, Italy, Spain, Algeria, Morocco...

P. Bernhard has given conferences in highschool Guillaume Appolinaire, in Nice, on February 5 ("Des insectes et des mathématiques", optimal foraging theory) and March 17 ("Un paradoxe en trafic automobile", Wardrop equilibrium and Evolutionary Stable Strategies in evolutionary biology), and in highschool Marcel Pagnol, in Marseille, on April 3rd ("Game theory", for a class of Social and Economic Sciences).

BIPOP Project-Team

9.3. Popularization

- Florence Bertails-Descoubes co-authored the paper “Approcher des courbes par des hélices” in the journal *Quadrature* (making the **cover** of the journal), together with Alexandre Derouet-Jourdan, April 2015.
- Pierre-Brice Wieber gave a lecture on “The best way to walk for a robot” to 100 high-school students during the national Mathematics week, March 2015.

BONSAI Project-Team

10.3. Popularization

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

CAGIRE Team

10.3. Popularization

- « Simulation d'écoulements turbulents : retour d'expérience de partenariats de recherche », Meeting "Nature & Technology" organized by the "Conseil départemental des Pyrénées Atlantiques", devoted to « La recherche scientifique au service de l'aéronautique », Parlement de Navarre, Pau, France, 12 November 2015. [PB]
- « Carrefour des Métiers» organized by the "Zone d'Activité Pédagogique d'Orthez", gymnase Blazy, Mourenx(64), France, 4 April 2015 (a stand was manned by [PB] during one day with the objective of explaining the activity of researcher to an audience of schoolboys/girls and high school students).

CAIRN Project-Team (section vide)

CAMUS Team

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 book about **modern C** is in preparation.

Cédric Bastoul presented lectures and activities at the *Kids University* event at the University of Strasbourg in November 2015

Cédric Bastoul prepared activities for *Fête de la Science* at University of Paris-Sud in October 2015

CAPSID Project-Team

9.3. Popularization

An article on our KBDOCK software has been accepted for publication in ERCIM News (edition 104, January 2016) [18].

CAMEL Project-Team

10.3. Popularization

- Jérémie Detrey gave a presentation on the Enigma machine and its cryptanalysis to high-school teachers as part as the *journée EPI-ISN*.
- Laurent Grémy has given in April an introductory course about the Diffie-Hellman protocol for high school students during a discovery day of the Université de Lorraine.
- Pierre-Jean Spaenlehauer has participated in a session “activités débranchées” organized by Marie Duflot-Kremer (MCF Univ. Lorraine) during the event MathC2+ which was held in CRI Nancy – Grand Est. The aim of this session was to provide junior high school students with an initiation to computer science through a set of algorithmic games.
- Pierre-Jean Spaenlehauer has animated a stand in the “Village des Sciences du Loria” in April 2015.

CARDAMOM Team

10.3. Popularization

- P.M. Congedo, "Houston, YOU have a problem !", Unithé ou café Seminar, Inria Bordeaux Sud-Ouest, Avril 2015.
- M. Ricchiuto has contributed to the organisation of the Solutions Cop21 ⁰, and represented Inria representatives at the research stand on the opening day.

⁰<http://www.inria.fr/institut/strategie/inria-a-la-cop21>

CARMEN Team

9.3. Popularization

- G. Ravon and Y. Coudière obtained a financial support from Cap' Math for the game: "Heart Attack". It is destined to middle and high school students to introduce mathematical modelling.
- Poster price at the CNIC 2015 for A. Djokovic.

CARTE Project-Team

9.3. Popularization

- Isabelle Gnaedig is member of the scientific vulgarization committee of Inria Nancy - Grand Est. This committee is a choice and guidance instance helping the direction of the center and the person in charge of popularization events to elaborate a strategy, to realize events and to help researchers to get involved in various actions aiming at popularizing our research themes, and more generally computer science and mathematics.
- Mathieu Hoyrup wrote an article on his recent work for Images des Mathématiques.

CASCADE Project-Team (section vide)

CASSIS Project-Team

10.3. Popularization

- Vote électronique : un scrutin à sécuriser. Véronique Cortier. La Recherche, 504:70-73, October 2015.
- Blog entries for Blog Binaire (Le Monde): Attaque à l'italienne (Véronique Cortier), Les bonnes propriétés d'un système de vote électronique (Véronique Cortier and Steve Kremer), Le vote papier est-il réellement plus sûr que l'électronique ? (Véronique Cortier), Qu'est-ce qu'un bon système de vote ? (Véronique Cortier).
- Pour vivre heureux, vivons anonymes. Abdessamad Imine. MAIF Magazine, Novembre 2015.

CASTOR Project-Team (section vide)

CELTIQUE Project-Team

8.3. Popularization

- IRISA 40th anniversary Open House - Recreational workshop (interactive demonstration) on the problem of functional correctness of programs, its importance in the field of critical software, and formal proof of correctness : Thomas Genet, Delphine Demange, Pauline Bolignano, Yannick Zakowski. Inria Convention centre, Inria Rennes - Bretagne Atlantique. Rennes, France. December 2015.
- Talk “Bug, Virus, Intrusion, Pirates... So many threats and no defense? Yes... maths.”, Thomas Genet, given two times in high schools close to Rennes.
- Two short tutorials. One for Isabelle/HOL [41] and one for SPAN+AVISPA [42].

Chroma Team (section vide)

CIDRE Project-Team

10.3. Popularization

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

- Les cordées de la réussite : national program aimed at facilitating access to higher education for pupils from various social backgrounds ;
- Bilateral scientific mediation action between CentraleSupélec and the Joliot-Curie high school in Rennes.

Other kinds of popularization activities have taken place in the form of communications aimed at non-academic computing professionals, on the topic of personal data protection regulations and techniques [24], [20].

Sébastien Gambs was also involved in several events dedicated to the public at large such as a presentation at le Pouce (<https://www.inria.fr/ouest-inria/le-pouce-bilan-et-perspectives/>).

CLIME Project-Team

9.3. Popularization

- Isabelle Herlin made a talk on the careers in image processing at GdR ISIS in November 2015.
- Vivien Mallet took part to a one-day introduction to Inria research at Sénat, in February 2015.
- Vivien Mallet and Raphaël Ventura took part to the UrbanDirtLab organized during the Futur-en-Seine digital festival, in June 2015.
- Vivien Mallet was auditioned by "l'Office parlementaire d'évaluation des choix scientifiques et technologiques" ("Assemblée nationale" and "Sénat") on big data and agriculture, in July 2015.

COAST Project-Team

8.3. Popularization

- In 2015, Claudia-Lavinia Ignat participated at “Le Village des Sciences” at Loria.
- François Charoy has been invited to participate to a panel at Grand Est Numérique 3

COATI Project-Team

10.3. Popularization

- Vulgarization talk : N. Nisse presented a talk on "Combinatorial Games", Lycée des Remparts (classes de seconde), Marseille (April 17th, 2015).
- Fête de la Science : F. Havet presented the stand "Pavage, art et preuves" et "Magie mathématique" at Vinon-sur-Verdon, France (October 12-16, 2015); F. Havet gave the talk "La science du ballon de football" at Vinon-sur-Verdon, France (October 16, 2015).
- Semaine des Mathématiques : F. Havet presented the stand "Les maths c'est magique" at Mouans Sartoux (March 18, 2015).
- Vendredis de la Science : F. Havet conducted scientific workshops for school children (6-11 year old) on friday afternoon in Rians, France. Once a month in March, April, May, June 2015, and weekly since November 2015.
- Jean-Claude Bermond presented a talk on the impact of big data on the telecommunications services and networks for banks investors at Paris, France (April 10 2015).

COFFEE Project-Team (section vide)

COMETE Project-Team (section vide)

COMMANDS Project-Team

10.3. Popularization

- F. Bonnans: article on 'Optimal Control' for the Encyclopédie des sciences de l'ingénieur [30].
- F. Bonnans and P. Martinon: Inria-industry day on energetic transition, June 12, 2015. Common stand with Safety Line on energy savings by optimization aircraft trajectories.
- B. Heymann: talk at the Workshop on open power systems (WOPS), Oct. 16, 2015, Institut des systèmes complexes, Paris .

COMPSYS Project-Team

10.3. Popularization

Compsys was involved in the proposal of the inter-disciplinary project EMI, with the maison des mathématiques et de l'informatique (MMI), and the Grame laboratory (computer music). See Section 9.1.3 .

Tomofumi Yuki has given a one-day lecture at the École Jeunes Chercheurs en Programmation 2015 (<http://ejcp2015.inria.fr/>), entitled “Research in Compilers and How it Relates to Software Engineering”.

CONVECS Project-Team

9.3. Popularization

H. Garavel participates to the committee in charge of organizing the Aerospace Valley series of industrial conferences on formal methods.

The fifth conference⁰, devoted to testing, held on June 16 in Toulouse and retransmitted by video-conference in Grenoble and Saclay, attracted participants from industry and academia. W. Serwe gave a talk (with Thierry Jéron, Inria Rennes), entitled “*TGV: Génération de tests de conformité à partir de modèles formels*”, and a talk (with Massimo Zendri, STMicroelectronics), entitled “*Génération de tests basés sur les modèles pour des systèmes sur puce avec cohérence de caches*”.

The sixth conference⁰, devoted to safety, is to be held on January 26, 2016.

⁰<http://projects.laas.fr/IFSE/FMF/J5/index.html>

⁰<http://projects.laas.fr/IFSE/FMF/J5/index.html>

CORSE Team (section vide)

CQFD Project-Team (section vide)

CRYPT Team (section vide)

CTRL-A Team (section vide)

DAHU Project-Team

9.3. Popularization

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

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

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

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

DANTE Project-Team (section vide)

DECENTRALISE Team

8.3. Popularization

- ACTUX Meeting, on “Résistance des GNUs”
- Security in Times of Surveillance (TU Eindhoven), on “Knocking down the HACIENDA with TCP Stealth”
- Linux User Group (LUG) Camp, on “Résistance des GNUs”
- Studentenforum im Tönissteiner Kreis e.V., on “State Surveillance: Benefits and Risks”
- Invest in Cyber Convention, on “La protection de la vie privée et sécurité des objets connectés” (Panel)
- Post Snowden Cryptography, on “The GNUnet: 45 Subsystems in 45 Minutes”
- Organizing YBTI workshop at 32c3 in Hamburg (December 29th)

DEDUCTEAM Team

9.3. Popularization

Gilles Dowek has given various popular science talks.

Gilles Dowek writes a monthly chronicle in Pour la Science.

Gilles Dowek is a member of the Scientific board of La Main à la Pâte.

DEFI Project-Team (section vide)

DEFROST Team

9.3. Popularization

- Presentation of a deformable robot in the Senate on 02/11/2015 at the "journée du numérique".
- A popular article on the work of the team was simultaneously broadcast on the BIT Blog Site lemonde.fr and the Interstices website.
- We worked with the Fresnoy (National Studio of Contemporary Arts) on the work of art: Exo-Biota artist Jonathan Pepe. This work was presented at the Panorama exhibition. It will be exhibited at the Palais de Tokyo in 2017. This project was the subject of an article on the humanoide.fr site.
- At the Science Festival, our team has greatly contributed to the itinerant scholars operation. Scientists and engineers have moved in colleges and high school in the region to present their work. This year, 15 one hour lessons were conducted in front of 430 students in secondary schools (<http://www.inria.fr/centre/lille/agenda/chercheurs-itinerants-2015>).
- Participation in various operations Chti'Code. Chti'Code is an action of the University of Lille 1, which aims to promoting computer education in primary schools. Damien Marchal intervened with 4 CM2 classes for a total of 20h. <https://wikis.univ-lille1.fr/chticode/>.
- In march 2015 Presentation of the work of Defrost students ISN Terminal specialty by Eulalie Coevoet and Jeremie Dequidt.
- J.Dequidt made an invited presentation and was a member of the jury of robotics competition organized by the High School Baggio (SI @ Baggio): <https://www.inria.fr/centre/lille/actualites/un-defi-de-robotique-interscolaire-a-lille>.
- J.Dequidt participated in the organization of the Robotics Cup of Primary Schools Polytech Lille. <http://crep.plil.net/>.
- J.Dequidt was a member of the European competition Android application creation students, supported by Google. <https://competition.eestec.net/>.
- A reporter did a paper about our team, posted on the site rue89 (over 11,000 visits to the article): <http://rue89.nouvelobs.com/2015/10/27/les-robots-mous-solution-medecine-moins-douloureuse-261847>
- Defrost research works have been presented to students (Terminale ISN) by E. Coevoet and J. Dequidt in march 2015.

DEMAR Project-Team (section vide)

DIANA Project-Team

9.3. Popularization

Chadi Barakat presented ACQUA at the Scientific Day of the Afnic (JCSA 2015). See <https://www.afnic.fr/fr/l-afnic-en-bref/actualites/actualites-generales/9333/show/jcsa15-retour-sur-la-journee-du-conseil-scientifique-de-l-afnic-2015.html>.

Walid Dabbous was invited again in october 2015 to present Future Internet challenges to high school students at CIV for the Science Week (Fête de la science).

Arnaud Legout presented at lycée Amiral de grasse to students in première and terminale a conference on privacy in the Internet in April 2015.

Damien Saucez has made a speech on the reproducibility of experimentation at the Journée Cloud 2015 of the GdR RSD Cloud Action Transverse (see <https://rsd-cloud.lip6.fr/journee.html>).

DICE Team

9.3. Popularization

- Stéphane Grumbach, Big Data : quel impact sur la relation aux citoyens ? Journée #ComDemainIDF de la Région Ile de France, Paris, 13 octobre 2015
- Stéphane Grumbach, Comment le numérique change-t-il la société ? Cycle de conférences Homo numericus, Fête de la science, Bourg-en-Bresse, 10 octobre 2015
- Stéphane Grumbach, Les données numériques : une nouvelle matière première ? Pint of Science, Lyon, 20 mai 2015
- Stéphane Grumbach, A qui profitent les Big Data? Soirée-débat Et si on en parlait, "La Révolution Big Data : chance ou menace?" Grand Amphithéâtre, Université de Lyon, 28 avril 2015

DIONYSOS Project-Team

9.3. Popularization

- In [80], [83], Bruno Tuffin and his co-author Patrick Maillé discuss for a large audience the issues and challenges of network neutrality.
- Bruno Sericola and Emmanuelle Anceaume made a presentation to students of the ENS (Ecole Normale Supérieure) Rennes on their works on the performance evaluation of data streaming analysis algorithms.
- 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)

DIVERSE Project-Team

10.3. Popularization

Benoit Combemale participated to the “Inria Industry meeting” focused on “Power Transition”, as part of the Futur en Seine festival. He presented the results of the collaboration with Obeo and INRA on the use of domain-specific languages for resource management.

Our research about browser fingerprinting have appeared in the MISC magazine (a French, general-audience magazine about technology and cyber-security) [75] and have been showcased at ICT'15 (a large European forum that gathers EU policy makers, industry and academics in the area of ICT) and at IRISA's open house.

DOLPHIN Project-Team

10.3. Popularization

- D. Brockhoff: Blackbox Optimization talk at 30min of Inria.
- L. Jourdan: Bioinspired computing - talk in undergraduate and graduate schools.
- L. Jourdan: Operational research - for 2nde during integration week (June 2015).
- L Jourdan, C. Dhaenens “Data et Santé”, in "Data for you, data for business", organized by inria Lille (Nov 2015).
- L. Jourdan : Coding gouter for children (Dec. 2015).

DRACULA Project-Team

9.3. Popularization

- Fabien Crauste : conference "grippe saisonnière, épidémie, pandémie : quel apport des mathématiques ?" à l'Université Ouverte, Lyon, 20 January 2015.
- Thomas Lepoutre is one of the organizer of Mathalyon (Mathematical exhibitions in highschool with 4 researchers, 20 days of intervention in 2015).

DREAM Project-Team

10.3. Popularization

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

DREAMPAL Project-Team

9.3. Popularization

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

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

He organizes and participates to the visit of classrooms on the Inria Plateau at EuraTechnologies, promoting interactions between the scientific community and secondary school students and their teachers. He organizes and/or animates events with children and/or adults in order to initiate them to code via Scratch or to computer science via unplugged activities, and more generally promoting computer science education.

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

DYLISS Project-Team

9.3. Popularization

- *Organization of Sciences en Cour[t]s*. Popularization Festival where PhD students explain their thesis via short films. [J. Coquet, V. Delannée, A. Antoine-Lorquin, C. Bettembourg] [\[more info\]](#).
- *Production of Sciences en Cour[t]s film*. "Une rencontre percutante": A short movie about metabolic reconstruction.[J. Coquet, V. Delannée, A. Antoine-Lorquin] [\[more info\]](#).
- *Bioinfo-fr.net* Bioinfo-fr.net is a french web site where researchers, engineers and students talks about bioinformatics. We have written 6 articles for this web site on diverse subjects: metabolic networks, genome assembly, phylogenetics, network visualization, file versionning with GIT. [G. Collet, O. Dameron]. [\[more info\]](#).
- *Animation of Bioinformatics Atelier at Data Science Symposium (IRISA's 40th anniversary)* "De la bioinformatique aux tiques". [F. Coste]
- *Participation to the Data Science Symposium (IRISA's 40th anniversary)* "Science data ecosystem". [A. Siegel, O. Dameron]

DYOGENE Project-Team (section vide)

ECUADOR Project-Team

9.3. Popularization

Alain Dervieux and Ala Taftaf participated to the event “la fête de la science” in Antibes, october 10-11.

ERABLE Project-Team (section vide)

ESTASYS Team

8.3. Popularization

Together with Vannes University, the team has published three high-level description articles on systems of systems [5], [6], [7].

EVA Team

10.3. Popularization

10.3.1. Web Presence

- <https://team.inria.fr/eva/>
- <https://twitter.com/InriaEVA>

10.3.2. Demos

- We deployed a 15-node network at the SolutionsCOP21 expo at the Grand Palais in Paris, held alongside the COP21 meeting, 4-10 December 2015. French President Francois Hollande and Minister of Research Thierry Mandon came by the demo.
- The EVA team organized several demonstrations of wireless sensor networks for undergraduates who visited Inria in February and December 2015.

10.3.3. Talks

- The Rise of the Industrial IoT! Inria-DGA day, Paris, France, 15 October 2015, **Thomas Watteyne**.
- Wireless In the Woods: Monitoring the Snow Melt Process in the Sierra Nevada. “demi-heure de la science” seminar. 3 September 2015, Rocquencourt, France, **Thomas Watteyne**.
- From Smart Dust to 6TiSCH: building the Industrial Internet of Things. 4th International Symposium on Sensor Science (I3S), 13-15 July 2015, Basel, Switzerland, **Thomas Watteyne**.
- Reaching Industrial-class Reliability with a Converged IPv6 Network in the Smart Building. Joint presentation with Pascal Thubert (Cisco). MEITO day on Smart Buildings, 21 May 2015, Rennes, France, **Thomas Watteyne**.
- OpenWSN: Having FUN with TSCH and the IoT-LAB. FUN research team seminar, Inria-Lille, 3 April 2015, Lille, France, **Thomas Watteyne**.
- Determinism in the IoT: the example of 6TiSCH and OpenWSN. IRTF T2TRG meeting, 22 March 2015, Dallas, TX, USA, **Thomas Watteyne**.

10.3.4. Panels

- **Thomas Watteyne** chair, panel on “Sensing and Networking”, Inria@Silicon Valley annual workshop (BIS), 13 May 2015, Berkeley, CA, USA.

10.3.5. In the News

- Article on IPSO CHALLENGE 2015, Inria-Paris Newsletter, 15 December 2015.
- Interview of **Thomas Watteyne** in Smart Insights on “The Internet of Important Things”, Issue 15, number IV, 14 December 2015.
- “Two Inria technologies rewarded at the IPSO Challenge 2015 in San Jose”, FrenchTechHub newsletter, 10 December 2015.
- “Interview: **Thomas Watteyne**, EVA research team and REALMS associate team, presents his research, his collaboration with California and the IPSO Challenge”. Inria@SiliconValley newsletter, October 2015.
- “Two Inria-EVA projects make it to IPSO CHALLENGE semi-finals”, inria.fr, October 2015.
- IPSO Alliance Announces Semi-Finalists for IPSO Challenge 2015, Reuters, August 2015.

EX-SITU Team

10.3. Popularization

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

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

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

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

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

EXMO Project-Team

10.3. Popularization

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

FLOWERS Project-Team

10.3. Popularization

IniRobot: Development, evaluation and dissemination of the IniRobot program for initiating young kids (primary schools) to computer science and robotics. This has been used and deployed in several major towns in France, including Lille, Talence and Lormont. It is now used by more than **7000** primary school children. Several days of formation for teachers have been organized to foster dissemination. The kit is Creative Commons, and available on the dedicated web site created: <https://dm1r.inria.fr/c/kits-pedagogiques/inirobot>

The Flowers team was a partner of several art/science projects studying various dimensions of the role and evolution of robots and society, and in particular

- The Comacina project exploring the role of movements and light in expressing emotions: <http://comacina.org>. This project was implemented through several residencies during the year, and several performances at various cultural places in Aquitaine, including at Pole Evasion in Ambares-et-Lagrave. a report is available at <https://flowers.inria.fr/RencontreAutourDuGeste.pdf>. It benefitted from funding from the Art/Science Idex call for project.
- The Marionnettes Electriques project studies animation techniques allowing to express fast and rich interaction in real-time on the stage. Various realizations can be seen from <https://www.poppy-project.org/project/marionnettes-electriques/>.
- The School of Moon project, from the Shonen dance company (headed by Eric Minh Cuong Castaing), is working on the design of a dance show about robots and posthumanity. It is using multiple robots, including the Poppy Humanoid robot in dynamic physical interaction with dancers. The premiere will happen in january 2016 at Ballet de Marseille. Web site: <http://shonen.info/schoolofmoon/>.

PY Oudeyer published a milestone popular science book together with astrophysicists Jean Audouze, biologist Georges Chapouthier, architect Denis Laming, on the common threads related to the origins of complexity at different scales in the universe. The title is “Mondes Mosaïques, Astres, Villes, Vivant et Robots”.

PY Oudeyer wrote a popular science article about developmental robotics in “Pour la Science” (the french version of Scientific American), entitled: “L’éveil des bébés robots”, available here: <http://www.pyoudeyer.com/eveilRobotsPourLaScienceOudeyer15.pdf>

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

January 29, 2015: Pierre Rouanet, Matthieu Lapeyre and Nicolas Rabault presented the Poppy Project in the TTFX conference in Bordeaux.

Robots Makers’day (january) : First Lego League, Poppy and Thymio workshops

January 31, 2015: Aquitec 2015, Yoan Mollard presented the Poppy platform to students and visitors

February 11, 2015: Benjamin Clément, Manuel Lopes, Pierre Rouanet, and Pierre-Yves Oudeyer were invited to present the Kidlearn and Poppy projects to the French senate in Paris.

May 28 to 29, 2015: William Schueller, Baptiste Busch and Yoan Mollard participated to the jury of students option "Informatique et Sciences du numérique", Lycée Saint Genes, Bordeaux

June 03 to 06, 2015: Didier Roy, Sébastien Forestier and William Schueller participated to the event “Science and You” in Nancy, by presenting Poppy and Inirobot projects.

June 13, 2015: Thibault Desprez, Antoine Darfeuil, Amandine Spriet, Theo Segonds and Pierre Rouanet participated to the Robot Makers Day where they organized a half day workshop on how to program Poppy Torso in Bordeaux.

August 08, 2015 : David Filliat gave a Talk at "Festival de Fleurance", a science festival in Fleurance (south of France) : Les robots, bientôt nos egaux ?

August 11-14, 2015: Theo Segonds and Pierre Rouanet were invited to present their work on the connection between Snap and Poppy robots to the 2015 Scratch conference in Amsterdam.

August 25, 2015 : David Filliat gave a Talk at "Rencontre enseignant-entreprises" at Ecole Polytechnique : Remplacer les hommes par les robots : jusqu'ou ira-t-on ?

September 28 to October 2, 2015: Baptiste Busch, Yoan Mollard, and other participants of the 3rd hand consortium presented the project on a booth among other EU projects at the IROS conference, Hamburg, Germany

October 13, 2015: Rencontre Inria Industrie: Baptiste Busch, Benjamin Clément and Alexandra Delmas presented respectively the projects 3rdHand, KidLearn and 5APC on a booth, Bordeaux

October, 16, 2015: Pierre Rouanet and Yoan Mollard presented the Poppy robots to the Bdx I/O Conference in Bordeaux.

October 20 to 22, 2015: Baptiste Busch, Pierre Rouanet, Yoan Mollard and Manuel Lopes showcased 3rd hand and Poppy robots to the ICT Forum in Lisbon, Portugal

November 16, 2015: Yoan Mollard gave a talk to the ESAC Alumni meeting 2015 about the 3rd hand project, European Space Agency, Madrid, Spain

October, 5, 2015: Nicolas Rabault presented the Poppy platform at the developer day from orange lab, Bordeaux.

March, 30 to 31, 2015: Nicolas Rabault presented "what is robotics" to primary school children for the "Festival jeune public du documentaire scientifique"

May, 29 to 30, 2015 : Matthieu Lapeyre and Nicolas Rabault : participated to the "open bidouille camp", Aix en Provence

FLUMINANCE Project-Team

9.3. Popularization

Cedric Herzet

- Volunteer at the "Journée sciences et musiques", Rennes 2015

FOCUS Project-Team

9.3. Popularization

Simone Martini has carried out extended work of scientific divulgation:

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

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

9.3.1. Other duties

Simone 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.

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

Davide Sangiorgi is coordinator of undergraduate studies at the Department of Computer Science and Engineering, Università di Bologna (Informatica per il Management).

FUN Project-Team

10.3. Popularization

- Salvatore Guzzo Bonifacio gave a talk on "Introduction to Wireless Sensor Networks" in the framework of "Fête de la Science".
- Nathalie Mitton gave a talk on "Introduction to RFID" to Terminales S a in the framework of "Fête de la Science".
- Nathalie Mitton gave a talk at the BIS conference on Smart Cities in Berkeley in May 2015.
- Nathalie Mitton presented the wireless networks to ISN classes on March 2015.
- Nathalie Mitton gave a talk on the Connected bike to the BeyondLab PlugTest on March 2015.
- Jean Razafimandimby gave a talk on "Can robots cooperate?" to BTS a in the framework of "Fête de la Science".
- Viktor Toldov gave a talk on "Introduction to Wireless Sensor Networks" in the framework of "Fête de la Science".
- Viktor Toldov gave a talk on the PREDNET project to the BeyondLab PlugTest on March 2015.
- Viktor Toldov gave a talk on the PREDNET project during the IAE conference on Connected objects in December 2015, Lille.

GALAAD2 Team (section vide)

GALEN Project-Team

9.3. Popularization

- **Blaschko, Matthew**
 - **Presentations:** V Argentina Applied Maths Conference (MACI 2015)
- **Kokkinos, Iasonas**
 - **Presentations:** University of California at Los Angeles, Imperial College, Boston University, Xerox Research Center Europe

GALLIUM Project-Team

10.3. Popularization

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

Jacques-Henri Jourdan and Fabrice Le Fessant manned a stand at “Salon Culture & Jeux Mathématiques” in Paris.

Fabrice Le Fessant is one of the main organizers of the OCaml Meetup in Paris.

Xavier Leroy gave a popularization talk on critical software and its formal verification at the computer science colloquium of University Pierre et Marie Curie.

Since 2012, the Gallium team has published a research blog at <http://gallium.inria.fr/blog/>, edited by Gabriel Scherer. This blog continued its activity in 2015, with 10 posts from 8 different authors.

GAMMA3 Project-Team (section vide)

GANG Project-Team

10.3. Popularization

Michel Habib has contributed a text [41] to the “Encyclopedia of Algorithms”, providing a unifying and historical overview of graph searching problems and algorithms.

GECO Project-Team

8.3. Popularization

Ugo Boscain gave a popularization conference at the “Rencontres Mathématiques de Rouen” with a general introduction to sub-Riemannian geometry and its applications, Jun 2015.

GENSCALE Project-Team

10.3. Popularization

- Animation of Bioinformatics Atelier at Data Science Symposium (IRISA's 40th anniversary) "De la bioinformatique aux tiques". [P. Peterlongo]
- Open House day for IRISA's 40th anniversary: genomic puzzle [All members of GenScale]
- Participation to the event "A la decouverte de la recherche". [P. Peterlongo]
- Popularization paper in BioFutur [38]

GEOMETRICA Project-Team (section vide)

GEOSTAT Project-Team

10.3. Popularization

Geostat has participated to the Inria initiative for thge preparation of the COP21 international conference: *Our common future under climate change*.

GRACE Project-Team

10.3. Popularization

- D. Augot gave a lecture about bits, exclusive-or, coding and digital pictures, at Lycée de la vallée de Chevreuse (Jan 22)
- D. Augot, N. Duhamel, A. Guillevic, J. Lavauzelle, D. Lucas, and B. Smith participated in the Fête la Science at École polytechnique (Oct 12)
- A. Couvreur gave a conference “Les mathématiques pour protéger l’information” for the pupils of Collège Moreau in Monthléry (91).

GRAPHDECO Project-Team

10.3. Popularization

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

GRAPHIK Project-Team (section vide)

HEPHAISTOS Project-Team

10.3. Popularization

- M. Gautier has introduced robotics in a lycée in Aix
- J-P. Merlet has presented robotics assistance during an associations meeting organized by the Conseil Général. He has introduced modern robotics to 100 students of preparatory school in Cannes.
- Y.Papegay is actively participating to the Math.en.Jeans initiative for Mathematics teaching for undergraduate students. He organized and animated a summer school in experimental mathematics and computer sciences. Two one week sessions have been held in Oxford in June gathering 30 high-school students - most of them were awardees in Mathematics Olympiad
- O. Pourtallier has presented our activity to Laurence ROSSIGNOL, Secrétaire d'Etat chargée de la famille, de l'enfance, des personnes âgées et de l'autonomie
- the team has exhibited its experimental flat to about 100 visitors
- the team has organized a 5 days workshop *Computer science for artists*. Fours artists have been submitted to a crash course on the use of sensors and actuation and have proposed a musical/dancing show the last day, based on the use of numerous motors and sensors

HIEPACS Project-Team

10.3. Popularization

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

The **HIEPACS** members have organized the PATC training session on Parallel Linear algebra at CINES in Montpellier April 9-10, 2015.

HYBRID Project-Team

10.3. Popularization

The team has participated to numerous events in 2015 :

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

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

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

HYCOMES Team

8.3. Popularization

Albert Benveniste, as a member of the French Academy of Technology, has participated to an inquiry of the French Ministry of Education on the teaching of computer science in the secondary school curriculum.

I4S Project-Team

10.3. Popularization

- V. Le Cam has been invited at the ConfLunch of IRISA on April 24th 2015. [http://videos.rennes.inria.fr/confLunch/#Le Cam](http://videos.rennes.inria.fr/confLunch/#Le%20Cam).
- J. Dumoulin has been involved in the COP 21 France stand for a solar hybrid road demonstration.
- V. Le Cam was present at the inauguration of Cité des Objets Connectés in Angers on 11/06/15 in presence of France president. He was inside the Smart sensors stand for IFSTTAR.
- A nice showcase of I4S was present at the 2015's Hanover messe, in April 2015: BAM (Berlin) had a steel frame demonstrator for the public using our techniques.

IBIS Project-Team (section vide)

ILDA Team

9.3. Popularization

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

IMAGINE Project-Team

8.3. Popularization

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

INDES Project-Team (section vide)

INFINE Team

9.3. Popularization

1. An interview from Laurent Massoulie was published in «La Recherche », concerning our work on community detection.
2. Cedric Adjih participated to the "Inria-Industry Meeting" dedicated to energy transition, with a demo of RIOT, an open-source OS for the Internet of Things. Among different uses of the RIOT, RIOT enables IoT devices and embedded systems to easily participate in an interoperable, IP-based, communication infrastructure. Such a standard-based infrastructure is essential for data collection (e.g. sensors) providing the information feeding smart energy systems (big data analytics).
3. Emmanuel Baccelli was the editor (with Dave Raggett) of ERCIM News Special Issue on Internet of Things and Web of Things (ERCIM News No 101).

INOCS Team (section vide)

IPSO Project-Team (section vide)

KERDATA Project-Team

10.3. Popularization

Luc Bougé:

Collège international, Valbonne. Invited presentation to the students of the preparatory classes on *Doing research in computer science* (January 2015).

Lycée Chateaubriand, Rennes. Invited presentation to the students of the preparatory classes on *Science of numerics* (March 2015).

IRISA Conf Lunch Program. Invited presentation about *Surviving the Data Deluge* (October 2015).

Master Program, Rennes. Invited presentation to the M2 students about *Informatics as a scientific activity: Toward a responsible research* (December 2015).

IRISA Open House Days, Rennes. Invited presentation about *Wikipedia back stage*, and management of an open booth to let visitors improve their skills about searching Wikipedia (December 2015).

Alexandru Costan:

CumuloNumBio'15, Aussois. Invited presentation at the *Summer School of BioInformatics* about *Big Data Management on Clouds* (June 2015).

IRISA, Rennes. Invited presentation at the *Conf'Lunch* about *Clouds and MapReduce Programming* (October 2015).

EIT Digital, Rennes. Invited presentation at the Future Cloud Symposium about *Enhancing video gaming user experience with Big Data analytics based on Apache Flink - a use case* (October 2015).

Gabriel Antoniu:

EIT Digital. Invited presentation at the Future Cloud Symposium on *Scalable data-intensive processing for science on distributed clouds* (October 2015).

LAGADIC Project-Team

10.3. Popularization

- Due to the visibility of our experimental platforms, the team is often asked to present its research activities to students, researchers or industry. Our panel of demonstrations allows us to highlight recent results concerning the positioning of an ultrasound probe by visual servoing, the construction of a tower by combining 3D model-based visual tracking and visual servoing techniques to pick up cubes that are assembled, vision-based detection and tracking for space navigation in a rendezvous context, the semi-autonomous navigation of a wheelchair, and augmented reality applications.
- Marie Babel, François Chaumette and Fabien Spindler participated to a “Café des Sciences” in Rennes in November 2015: <http://www.espace-sciences.org/conferences/cafes-de-l-espace-des-sciences/les-robots-sont-partout>
- Marie Babel and François Pasteau participated as exhibitors to the robotics exhibition “Innorobo” in Lyon in July 2015: <http://innorobo.com/en/home/> and to the “Autonomic” exhibition dedicated to the handicap and the autonomy in Rennes in October 2015: <http://www.autonomic-expo.com/>
- Fabien Spindler is a member of the editorial board of “Ouest Inria”, the internal journal at Inria Rennes-Bretagne Atlantique.

LARSEN Team

10.3. Popularization

- Amine Boumaza coached a team of programmers that participated in the R2T2 (Remote Rescue using Thymio2) Robot challenge organized by EPFL. The challenge brought together 100 children from 5 countries to save a Martian base using a group of robots (<https://www.thymio.org/en:thymio-r2t2>).
- Serena Ivaldi was portrayed in the book “Le cerveau fait-il deux choses à la fois ?” by Fiamma Luzzatti.
- Jean-Baptiste Mouret gave a talk on “Robots that can adapt to damage in minutes” at Café Neu Romance, Prague (28th of November, 2015)
- Vincent Thomas gave a talk and proposed a tutorial on “physics simulation” during “journées ISN-EPI” (15th of Mars, 2015)
- Vincent Thomas made a presentation about planning for students of Lycée Bichat-Lunéville (19th of Mars, 2015)
- Vincent Thomas participated in “journées Village Master” (9th of April, 2015)
- Vincent Thomas participated in the preparation of “Computer Science Exporoute” (conducted by Inria Nancy - Grand Est) planned for 2016
- Vincent Thomas created the exposition “jeux ateliers de la pensée” (http://ticri.univ-lorraine.fr/wicri-lor.fr/index.php/Exposition_Jeu) in 2013 with master students from cognitive sciences. This exposition is still presented in several *Bibliothèques Universitaires of Université de Lorraine (BU Brabois, BU St Dié)*.

LEAR Project-Team (section vide)

LEMON Team

10.3. Popularization

Antoine ROUSSEAU co-authored two outreach publications in *Interstices*, see [17] and [18].

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

Fête de la Science, Oct. 2015, Genopolys Montpellier

Fête de la Science, Oct. 2015, Centre International de Valbonne

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

Antoine ROUSSEAU gave several informal conferences in Grand Palais for the COP21 week (December 3-10, PARIS)

LFANT Project-Team

8.3. Popularization

Damien Robert participated in a CinémaScience event to discuss with the public after a projection of the film “Imitation Game” on Alan Turing. The theme of the intervention was “The contributions of Alan Turing from computer science to cryptography”.

LIFEWARE Project-Team

9.3. Popularization

Pascal Hersen and Art emis Llamosi are founders of the *OpenLab* at the *Center for Research and Interdisciplinarity* in Paris, and organizers of related events on product industrialization. They provide scientific expertise to hosted startups.

LINKMEDIA Project-Team

9.3. Popularization

Pascale Sébillot: Invited speaker (6h) Introduction to issues and solutions in NLP, URFIST Bretagne et Pays de la Loire seminar, June 2015.

LINKS Team

10.3. Popularization

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

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

M3DISIM Team

10.3. Popularization

D. Chapelle, Febr. 9th, article in “Le Figaro”: “A quoi sert de modéliser le fonctionnement du cœur ?”

P. Moireau, May 20th 2015, keynote entitled “The heart forecasting” at Créteil District Academy “Olympiade de Mathématiques” award ceremony.

MADYNES Project-Team

10.3. Popularization

Thomas Silverston gave an interview with a subject on smart cities for the program *Mov'Futur* on the *Le Mouv'* radio (December 2015).

MAESTRO Project-Team

10.3. Popularization

Activities are presented in chronological order:

- S. Alouf delivered a conference titled “Comment marche le Web ?” at Lycée General et Technologique du Rempart, Marseille, for two classes of high school students (20 March 2015).
- A. Reiffers-Masson participated to the “Fête de la science” at the UAPV, (8 October 2015). His presentation was about Online Social Networks.

S. Alouf is a member of MASTIC, a commission in charge of popularization and regional and internal scientific animation (from November 2011 until December 2015).

MAGIQUE-3D Project-Team (section vide)

MAGNET Team

10.3. Popularization

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

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

MAGRIT Project-Team

9.3. Popularization

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

- Gilles Simon attended a forum on digital technologies in Lorraine (GEN#3) and gave a talk about the role of augmented reality in the industry 4.0.
- Erwan Kerrien is Chargé de Mission for scientific mediation at Inria Nancy-Grand Est. As such, he is a member of the steering committee of "la Maison pour la Science de Lorraine"⁰, and member of the IREM⁰ steering council. He also serves as the academic referent of an IREM working group aiming at introducing computer science in secondary and high school curricula. Among other activities, he was also an associate researcher to a MATH.en.JEANS workshop.

⁰"Houses for Science" project, see <http://maisons-pour-la-science.org/en>

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

MAMBA Project-Team (section vide)

MANAO Project-Team

10.3. Popularization

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

MARELLE Project-Team (section vide)

MATHERIALS Project-Team (section vide)

MATHRISK Project-Team

10.3. Popularization

- A. Lionnet:
 - article on Financial Mathematics published in the online popularization magazine Interstices https://interstices.info/jcms/p_82123/les-mathematiques-financieres-des-quants
 - Conference given for middle-schoolers at University Paris 8 during the "Week of Mathematics 2015".
 - Participation to the colloquium "Science and You", Nancy, June 1–6.
 - The two entries of A. Lionnet to the contest SIAM Math Matters, Apply It (<https://www.siam.org/careers/matters.php>) were selected to be turned into a poster. One was on financial derivatives (<https://www.siam.org/careers/pdf/derivatives.pdf>) the other on systemic risk (<https://www.siam.org/careers/pdf/risk.pdf>).
- A. Sulem:
 - "Applications of stochastic analysis", (2015), invited contribution for the *Princeton Companion to Applied Mathematics*, <http://press.princeton.edu/titles/10592.html>
 - Responsible for the partnership of Inria with Institut Henri Poincaré for the creation of a museum of Mathematics.

MAVERICK Project-Team

9.3. Popularization

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

Maxplus Team

10.3. Popularization

- J.P. Quadrat :
 - Administre le site d'intérêt général <http://www.maxplus.org>, dédié à l'algèbre max-plus.
- V. Boeuf
 - Article dans la brochure "La recherche en mathématiques appliquées" diffusée à des lycéens d'Île de France, exposant la plateforme téléphonique pompiers + police.
- N. Stott
 - Finaliste Paris-Saclay du concours MT180 "Ma thèse en 180 secondes".

MCTAO Project-Team (section vide)

MEMPHIS Team

10.3. Popularization

One member of the team (Lisl Weynans) is in charge of the communication with secondary degree for the Mathematics Institute.

Participation popularization operations, such as: "Fête de la Science", "Des enseignants dans les labos", "Le printemps de la mixité", and several talks in high schools to popularize scientific computing.

Pedagogic project with an high in rural area about statistics: the PARADOX project, awarded by a grant from the fundation "Sciences à l'école".

MEPHYSTO Team (section vide)

MESCAL Project-Team

9.3. Popularization

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

MEXICO Project-Team (section vide)

MIMESIS Team

9.3. Popularization

9.3.1. IHU Scientific Days

At the occasion of the 4 IHU Scientific days in 2015, the MIMESIS took part and organized several meetings, presentation and discussions around simulation in medicine.

9.3.2. *Journée Francaise de Radiologie, JFR*

The MIMESIS team was part of the JFR 2015 event in Paris on the 16 and 17th October 2015. Hugo Talbot presented the work and the projects achieved by the team.



Figure 17. Our booth in the RII Health 2015 in Bordeaux

9.3.3. *Rencontre Inria Industrie, RII*

Hugo Talbot presented the SOFA framework and our current work during the "Rencontre Inria Industrie" 2015 which took place in Bordeaux. We had many nice discussions and feedback about SOFA.

9.3.4. *Journée Alsacienne d'Ophtalmologie, JAO*

In collaboration with the ophthalmologist Pr. Gauchet, several members of the team (Rémi Bessard, Bruno Marques and Stéphane Cotin) participated at the JAO (Journée Alsacienne d'Ophtalmologie) on the 28th and 29th of November 2015. They presented our prototype simulator for retinal surgery.

9.3.5. *Talk at Université Paris Descartes*

On the 4th of December, Stéphane Cotin was invited as a speaker to the BME seminar at University Paris Descartes. His talk was entiteled "patient safety through real-time numerical simulation".

9.3.6. *Talk at MEDinISRAEL*

Stéphane Cotin and Hadrien Courtecuisse were invited at the MedinISRAEL 2015 conference which took place in Tel Aviv. This event was the opportunity for the team to present our work to the community. Moreover, the university from Tel-Aviv strongly supports new collaborations with French laboratory.

9.3.7. *Science & You*

In Nancy, Science & You opened its doors on the 2nd of June. The MIMESIS team participated on June 5th and 6th to present some of our simulations. This was a great success and a large audience came to our booth.



Figure 18. Rémi Bessard presenting our simulation at JAO 2015



Figure 19. Presentation of Stéphane Cotin at MEDinISRAEL 2015

9.3.8. Pitch at B.E.S.T. Symposium

B.E.S.T. (Business Engineering and Surgical Technologies) is an original education program proposed by the IHU Strasbourg dedicated to undergraduate, graduate and postgraduate students in medicine, engineering and management. In the context of the B.E.S.T. Symposium, Hugo Talbot presented a concept of start-up about medical training based on simulation which any student could afford. Rosalie Plantefevé also attended the B.E.S.T. Symposium.

MIMETIC Project-Team (section vide)

MIMOVE Team (section vide)

MINT Project-Team

9.3. Popularization

9.3.1. Laurent Grisoni

Geste d'interaction, immersion, RV: une vue sur les enjeux, workshop VR/Rehabilitation, Tourcoing (imaginarium), mars 2015.

La réalité augmentée (sa réalité), Déjeuner technologiques du master Informatique de Lille 1, mars 2015

Dessin et Interaction (homme-machine), Journée épistémologie Sciences et Cultures du Visuel, Tourcoing (imaginarium), juin 2015

Situated Interaction and contemporary art, Journées scientifiques Inria, juin 2015, nancy

Hands on 3D Models (Virtual Reality and Physicality), 4th Sino-French Symposium on VR, Xi'An (Chine), aout 2015

Sketch and Human-Computer Interaction, invited talk at the LJK (Inria Rhones-Alpes), Nov 2015 and at the doctoral school of LACTH (Lille school of architecture) Nov. 2015

L'interaction en général, le geste et le tactile en particulier, Séminaire Inria/Euratechnologie, déc. 2015

9.3.2. Florent Berthaut

Reflets: a mixed-reality display for musical performances. Public demonstration for the Bristol Bright Night at the @Bristol Science Museum, September 2015, Bristol, UK

MISTIS Project-Team

10.3. Popularization

Pixyl communication. F. Forbes gave several large audience presentations related to the Pixyl startup and more recently interviews for journals such as **Presence** and INSERM Science et Santé Magazines.

Mjolnir Team

9.3. Popularization

- “*L’onde de choc des attentats du 13 Novembre, jusque dans Wikipédia*” article published on Rue89’s Web site, December: Fanny Chevalier
- “*Data Visualization - Voir grand, petit à petit*”, talk at the Big Data day organized at EuraTechnologies, November: Fanny Chevalier
- “*Mouvement & Informatique*”, talk for **TEDx Valenciennes**, October: Nicolas Roussel
- “*Des ordinateurs et des Hommes - les défis de l’Interaction Homme-Machine*”, talk at Lycée César Baggio as part of Inria Lille’s “Chercheurs Itinérants” program, October: Stéphane Huot
- “*Adoiraccourcix : l’identification des doigts au service de raccourcis tactiles*”, talk at Lycée Thérèse d’Avila and Lycée Queneau during as part of Inria Lille’s “Chercheurs Itinérants” program, October: Alix Goguey
- “*J’étudie les relations homme-machine, posez-moi vos questions*”, Ask-me-anything article published on Rue89’s Web site, October: Fanny Chevalier
- “*La Recherche en Interaction Homme-Machine*”, talk at Rue89, October: Fanny Chevalier
- “*Recherche en Sciences du Numérique & Design*”, talk for **Lille Design** at EuraTechnologies, September: Nicolas Roussel
- “*Inria and its Lille – Nord Europe research center*”, talk as part of the press visit organized for the ICML conference, July: Nicolas Roussel
- “*Mieux explorer pour mieux raisonner - la visualisation interactive au service du savoir-faire de l’analyste*”, talk at EuraTechnologie, July: Fanny Chevalier
- “*Des ordinateurs et des Hommes - les défis de l’Interaction Homme-Machine*”, talk for the Centre de Vulgarisation de la Connaissance at Université Paris-Sud, January: Stéphane Huot

MNEMOSYNE Project-Team

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 bio-sciences 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 [35], both at a concrete level (including on Mnemosyne subjects [23]) and at the methodological level [34], [19]. This explains the amount of references to these external subjects in this document.
- Nicolas Rougier: Question/answers about Artificial Intelligence (AI) with the general public (NODE, Bordeaux); popularized article about AI on Interstices; invited talk for the “Pint of Science” festival; interview about AI in the #Thinoverly magazine; two articles in “The Conversation (FR)” about neurosciences and AI; “Unithé ou Café” at Inria BSO; Blog posts in “Binaires” (36 15 EULA) and “Scilogs” (“L’intelligence artificielle n’aura pas lieu.”)
- Frédéric Alexandre: Blog post in Scilogs: “Rien de neuf sous le soleil de l’IA” (www.scilogs.fr/intelligence-mecanique/rien-de-neuf-sous-le-soleil-de-lia/); Conference at the Bordeaux museum of science (Cap Sciences, March 5th) “Modeling the brain to better understand neurodegenerative diseases”; Article in the french scientific magazine Pour la Science: “Where are the real dangers of Artificial Intelligence” (http://www.pourlascience.fr/ewb_pages/a/article-ou-sont-les-vrais-dangers-de-l-apos-intelligence-artificielle-35148.php); Conference at the Multimedia Library of Tulle “Modeling emotions to better understand neurodegenerative diseases” (March 28th); Participation to the french radio broadcast 3D on the national channel France Inter (<http://www.franceinter.fr/emission-3d-le-journal-robots-cops>, May 31st); Interview in the french scientific magazine Science et Vie Junior (“Must we fear super intelligences”, issue of August); Interview in Inriality “Who is afraid about Artificial Intelligence” (<http://www.inriality.fr/communication/intelligence-artificielle/qui-peur-de/>); Responsible for the Masterclass “Think different” to the Biznext conference (december17th, Bordeaux, cf interview <http://objectifaquitaine.latribune.fr/innovation/2015-11-20/les-robots-intelligents-nous-poussent-ils-a-penser-le-monde-autrement.html> and announcement on TV <http://france3-regions.francetvinfo.fr/aquitaine/emissions/jt-1213-aquitaine>);
- PhD students participated to the regional exhibition Aquitec (C. Héricé and Maxime Carrere), to “Fête de la Science” (I. Chraïbi Kaadoud and C. Héricé), to “Printemps des filles” (I. Chraïbi Kaadoud and C. Héricé) and to the organizing committee of Pint of Science Bordeaux (C. Héricé).

MOAIS Project-Team (section vide)

MODAL Project-Team

10.3. Popularization

- **Research Sensibilisation**

- Christophe Biernacki has given a talk “Big Stat / MixtComp: A SaaS platform for easy Big Data analysis” to the one-day meeting Data For You at EuraTechnologie in Lille on November 26th 2015 (<http://www.euratechnologies.com/actualites/2015/10/data-you-10381>).
- Sophie Dabo has participated to research valorisation days for high school students female.
- Benjamin Guedj has participated in a meeting with undergraduate students at Université de Lille to promote research positions in mathematics (January 2015).
- Benjamin Guedj has been a speaker for the “30 minutes de science” seminar (Inria Lille - Nord Europe, April 2015).
- Vincent Vandewalle has given a talk “Clustering et modèles prédictif” to the third R&D du Plateau at EuraTechnologie in Lille on April 22th 2015 <http://www.euratechnologies.com/actualites/2015/04/3eme-r-dv-plateau-10038>

- **XPérium Lille 1**

Participants: Christophe Biernacki, Maxime Brunin, Quentin Grimonprez, Vincent Kubicki, Vincent Vandewalle

Vulgarization of MODAL’s research to sensitize students and businesses: <https://modal.lille.inria.fr/xperium/>

MODEMIC Project-Team (section vide)

MOKAPLAN Project-Team

9.3. Popularization

G. Carlier gave a general audience lecture on mathematics of urban traffic at the Consulat de France in Vancouver.

Monc Team

9.3. Popularization

- C. Poignard gave a lecture at IREM "Des décharges électriques contre le cancer" (April 2015)
- O. Saut is a regular speaker at Entretien de l'Excellence (<http://www.lesentretiens.org>)
- O. Gallinato gave a lecture at "la nuit des chercheurs" (Sep 2015)
- P. Berment is participating at a "Math en jean" project with the "collège Chambéry" of Villenave d'Ornon since December 2015
- A. Perreti and C. Perier represented Inria to the Aquitec forum (Jan 2015)
- S. Benzekry gave an interview to "radio campus" in June 2015 (<http://www.c-yourmag.net/article/2015-06-03/il-modelise-levolution-des-tumeurs-avec-les-mathematiques-16763>)

MORPHEME Project-Team

9.3. Popularization

Gaël Michelin, Emmanuel Soubies, and Alexis Zubiolo participated as exhibitors to the "Fête de la science 2015" manifestation in Juan-les-Pins (palais des congrès).

MORPHEO Project-Team

10.3. Popularization

- Edmond Boyer gave invited talks at the ENS Cachan and at the Inria Paris, and the inaugural talk at the Kinovis platform inauguration.
- Franck Hétroy-Wheeler gave two talks on digital geometry to secondary school pupils and their families.
- Interactive Kinovis platform demonstration over 2 days for the "Fête de la Science" (within Morpheo: M. Heudre and J. Pansiot).

MULTISPEECH Project-Team

10.3. Popularization

- Demonstration at Forum des métiers, Collège Peguy, Le Chesnay, March 2015 (A. Piquard-Kipffer).
- Demonstration at Village Sciences LORIA, April 2015 (S. Ouni, J. Di Martino).
- Demonstration at Science & You, Nancy, June 2015 (K. Deguernel, E. Vincent).
- Demonstration to students of the Master Erasmus Mundu Program DESEM, Inria, July 2015 (Y. Laprie).
- Demonstration at Fête de la Science, Artem, October 2015 (A. Liutkus, N. Souviraà-Labastie, E. Vincent).
- Demonstration to students of ENS Cachan, Inria, December 2015 (S. Ouni, E. Vincent).
- Les troubles Dys : la dyslexie-dysorthographe. Conf'curieuses, Museum & Aquarium of Nancy, Grand Nancy & University of Lorraine. Nancy, January 15th 2015 (A. Piquard-Kipffer).
- “Séparation de sources audio”, Interstices, to appear (A. Liutkus and E. Vincent).
- “Loria : un articulographe pour étudier la production de la parole”, Eureka Lorraine, 21/10/2015 (S. Ouni).

MUSE Team (section vide)

MUTANT Project-Team

9.3. Popularization

Arshia Cont appeared as expert in **BFM Business TV** special live event on Music and New Technology.

MYCENAE Project-Team

8.3. Popularization

- *The hipster effect: when anticonformists all look the same*. Popularization on the synchronization of random elements inspired from a simplification of brain dynamics. International press coverage in scientific (Science, AMS news, Science et Vie,...) and general information journals (Washington post, JDD, Le soir,...)
- *La recherche sur la reproduction animale et humaine*. Booklet edited by GdR REPRO, including an interview of Alexandre Vidal and a dedicated chapter on "Reproduction, biomathématiques et bioinformatique"

MYRIADS Project-Team

10.3. Popularization

- Martin Quinson organized a 2-days workshop for secondary maths teachers on how algorithms could be used to reinforce the pupils abilities to verbalize, set out arguments and conduct rigorous demonstrations (Nancy, March 2-3 2015). This workshop was co-organized by the IREM (Institut de Recherche en Enseignement des Mathématiques) of Nancy.
- Martin Quinson gave a talk entitled “Computational Science: the real societal impact of computers”, during the workshop presented in previous item (Nancy, March 3th 2015).
- Martin Quinson co-organized a one day workshop for about 100 secondary computer science teachers. This event spreads the best practices to teach our topic (Nancy, March 12th 2015).
- Martin Quinson was a scientific expert in an experiment in which we explored how Scratch can be used to teach Computer Science in after school activities every week for the whole week.
- Martin Quinson is a scientific expert in a teaching manual of Computer Science for primary schools, currently authored within the «La main à la pâte» research network. This manual will be released in 2016.
- Martin Quinson organized a collaborative workshop on Wikipedia gathering students and researchers to improve the French speaking pages on Computer Science in the free encyclopedia (Rennes, December 10, 2015).

NACHOS Project-Team (section vide)

NANO-D Project-Team

9.3. Popularization

- NANO-D participated to the 2015 Fete de la Science (science fair): SAMSON was used by high school students to perform various activities related to computational nanoscience.
- Emilie Neveu participated with the AirSea team to the 2015 Fete de la Science (science fair).
- Emilie Neveu is part of the group “Cafes Sciences et Citoyens de l’Agglomeration Grenobloise”, which organises public roundtables every month.
- Stephane Redon gave a talk at TEDx Grenoble <https://www.youtube.com/watch?v=Atpigmv529E>

NECS Project-Team

10.3. Popularization

The team's work on traffic prediction and control, with Grenoble Traffic Lab, has been popularized as follows:

- an interview reported in an article in CNRS 'Le Journal', and a related video (in French, see <https://lejournel.cnrs.fr/articles/quelle-voiture-pour-demain>)
- a video prepared by Inria for RII–Rencontres Inria-Industrie (in English, see https://www.youtube.com/watch?v=Uia4Y-9c6k0&index=5&list=PLV1fJrIaqWIMe5savY102Oz-M_hVmXg30).
- H. Fourati gave a talk 'Prédiction et contrôle du trafic routier sur Grenoble : une solution automatisée avec MATLAB' at the 'journée Nouveautés MATLAB 2015a, Data Analytics & Calcul Parallèle', Grenoble, March 26th.

NEUROMATHCOMP Project-Team (section vide)

NEUROSYS Project-Team

10.3. Popularization

- Talks at Science and You: atelier scolaire “Femmes et sciences : une équation facile à résoudre !” – June 5th 2015 (L. Buhry)
- Talk during the National Brain week: Brain, Consciousness and Anesthesia, March 24th 2015, central hospital, Nancy (D. Schwartz, A. Hutt, L. Bougrain)
- Exhibit at Loria’s open day for master students: controlling a robotic arm using EEG, April 9th, 2015 (L. Bougrain, B. le Golvan)

NON-A Project-Team (section vide)

NUMED Project-Team

7.3. Popularization

- Paul Vigneaux is a member of the board of "Images des Maths", a pedagogic website of CNRS.
- Vincent Valvez is coordinator of Math à Lyon, a monthly two-days mathematical exhibition in public highschools.

OAK Project-Team

9.3. Popularization

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

ORPAILLEUR Project-Team (section vide)

PANAMA Project-Team

10.3. Popularization

10.3.1. *Journée science et musique*

Participants: Nicolas Keriven, Luc Le Magoarou, Stéphanie Lemaile, Frédéric Bimbot, Rémi Gribonval, Gilles Puy, Nancy Bertin, Corentin Guichaoua, Srđan Kitic, Ewen Camberlein, Romain Lebarbenchon, Nathan Souviraà-Labastie.

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

PANAMA coordinated the organization of a public event called “Journée Science et Musique” (Day of Music and Science). This yearly event organized by the METISS/ PANAMA Team since 2011 aims at sharing with the wide audience the latest innovations and research projects in music. The motivation for hosting this event is to explain and promote the technology behind audio-processing that people face in their daily lives. The event is free to everyone and people have the possibility to attend talks by selected speakers or meet numerous experts that demonstrate current projects in which people can interactively participate. Edition 2015 hosted more than 250 visitors and was the official opening event of the “Festival des Sciences” week in Rennes.

10.3.2. *Radio and press*

Nancy Bertin and Rémi Gribonval co-authored a popularization article about compressed acoustic holography (with L. Daudet and F. Ollivier). It was published in the journal "Pour la Science" in May 2015 [46].

Nancy Bertin was interviewed for the local press (Rennes Métropole journal) at the occasion of "Journée Science et Musique".

PARIETAL Project-Team

10.3. Popularization

Gaël Varoquaux: La tête au carré, on Junarury 13th, 2015: <http://www.franceinter.fr/emission-la-tete-au-carre-big-data-quand-les-donnees-servent-a-predire>

Stand à la Fete de la science CRI Saclay, 9 octobre (Alexandre Abraham, Arthur Mensch, Bertrand Thirion).

PARKAS Project-Team (section vide)

PARSIFAL Project-Team

9.3. Popularization

K. Chaudhuri organized a half-day tutorial on Abella as a satellite event of CADE 2015 in Berlin. The slides from the talk are available as [40], and the tutorial web-site is: <http://abella-prover.org/tutorial>. This event was co-organized with Gopalan Nadathur, professor of Computer Science at the University of Minnesota, USA.

G. Reis participated in “Fête de la Science” as an assistant to the programming activities.

PERCEPTION Project-Team (section vide)

PHOENIX Project-Team

9.3. Popularization

- Hélène Sauzéon. " Assistance numérique pour soutenir les activités quotidiennes des personnes âgées et/ou avec handicap cognitif." Journée de Lancement du Living Lab e-santé Aquitain. March 5, 2015, Bordeaux.
- Hélène Sauzéon. " Quels outils numériques pour les élèves avec handicap cognitif ?" Congrès FNAREN. June 24-27, 2015, Cenon.
- Hélène Sauzéon. "DomAssist : perspectives d'application en EPHAD." Congrès EHPAD et Innovations. July 2, 2015, Bordeaux.
- Phoenix members. Présentation de DomAssist et College+. Les rencontres Inria-Industrie sur le thème de la santé. Novembre 13, 2015, Bordeaux.
- Benjamin Bertran. Présentation de DomAssist. Colloque sur la Silver Economy. October 19, 2015, Bordeaux (200 personnes).
- Benjamin Bertran. Présentation de DomAssist / HomeAttendant, Rencontre médico-social. October 1, Limoges (80 personnes).

PL.R2 Project-Team (section vide)

PLEIADE Team

8.3. Popularization

David Sherman participated in popularization activities based on Thymio-II mobile robots for education, coordinated by the Mobsya association and EPFL (Switzerland). He contributed code to the Aseba project for piloting Thymio-IIs from the Scratch programming language, assisted in teaching at the Flornoy elementary school, and organized a team in the R2T2 event (<http://r2t2.org>) on November 4, 2015.

POEMS Project-Team (section vide)

POLSYS Project-Team

9.3. Popularization

Mohab Safey El Din gave a course at the “Ecole Jeunes Chercheurs 2015” of GDR IM and wrote for it a book chapter [21].

POPIX Team (section vide)

POSET Team (section vide)

POSTALE Team

9.3. Popularization

Christine Eisenbeis est membre du conseil scientifique des programmes du centre d'Alembert, Centre Interdisciplinaire d'Étude de l'Évolution des Idées, des Sciences et des Techniques (CIEEIST), de l'université Paris-Sud. À ce titre, elle a fait partie du comité d'organisation du colloque "Les métiers du travail scientifique : images et valeurs, réalités et défis", 20-21 mai 2015, Orsay, (<http://www.centre-dalembert.u-psud.fr/2015-les-metiers-du-travail-scientifique-images-et-valeurs-realites-et-defis/>).

POTIOC Project-Team

10.3. Popularization

10.3.1. Job Fairs

- Salon Aquitec (Regional Career Fair), Bordeaux, January 2015 (Anke Brock & Camille Jeunet)

10.3.2. Science Festivals

- Fête de la Science, Talence, September 2015 (Julia Chatain)
- TechFest 2015, Mumbai, India. January. (Jérémy Frey, Jérémy Laviole)

10.3.3. Popularization Talks

- "Ma Thèse en 180s", Public Prize of the University of Bordeaux Final and regional final, April 2015 (Camille Jeunet)
- "Rencontres Numériques", Cultures scientifiques et techniques, Créteil, October 2015 (Martin Hachet)
- "Peut-on tout contrôler par la pensée", DocForum, Lyon, Lavoisier Public, November 2015 (Fabien Lotte, with Jérémie Mattout and Emmanuel Maby, Inserm Lyon)

10.3.4. Popularization Articles

- "Publication : du papier au numérique", Blog Binaire - Le Monde (Pascal Guitton) [45]
- "Publication : le temps des dérives", Blog Binaire - Le Monde (Pascal Guitton), [46]

10.3.5. Demonstrations

- Augmented Michelson Interferometer, ETOP, June 2015 (David Furio, Martin Hachet).
- Fête du centre: virtual reality demo (Inria), June 2015

10.3.6. Women In Science

- Printemps de la Mixité (Event for High-School Students with the aim to increase the interest in science, specifically in girls), Université de Bordeaux, Mai 2015 (Anke Brock: Organisation for Inria and Panel Talk & Potioc team: Demos)
- Panelist "Témoignages de femmes dans des professions scientifiques des secteurs public et privé et à différents niveaux de carrière" at the Colloque femmes & sciences (women in science annual meeting), Toulouse, November 2015 (Anke Brock)
- Panelist at the "Journées Femmes et Informatique" (women in computing conference) of the Société Informatique de France (French association on computing), Orléans, February 2015 (Anke Brock)
- Panelist "Out of the ordinary jobs in Computer Science" at the ACM womENCourage conference, Uppsala, Sweden, September 2015 (Anke Brock)
- Django Girls, Bordeaux, November 2015 (Julia Chatain)

10.3.7. Inria Media Channels

- Inside Inria Video <https://www.youtube.com/watch?v=8bNS6JHmCwo> (Anke Brock + the whole Potioc team)
- Podcast "Comment améliorer l'accès aux cartographies pour les déficients visuels ?" for Interstices, April 2015 https://interstices.info/jcms/ni_78646/comment-ameliorer-lacces-aux-cartographies-pour-les-deficients-visuels (Anke Brock)

PRIMA Project-Team (section vide)

PRIVATICS Project-Team

9.3. Popularization

Article of C.Castelluccia and D.Le Métayer in le Monde, Oui, la loi sur le renseignement prépare bien une surveillance de masse, 09/06/2015.

Article of C.Castelluccia and D.Le Métayer in Pour La Science, Renseignement : le traitement massif de données est aussi dangereux qu'inefficace, 11/06/2015.

Interview of C.Castelluccia and D.Le Métayer in le Monde, Des dizaines de milliers de personnes vont être suspectées à tort, 06/05/2015.

Article of C.Castelluccia and D.Le Métayer in La Recherche, Les failles de la loi sur le renseignement, 11/2015.

Interview of V. Roca on France Culture in Les Nouvelles Vagues, Privacy leaks in smartphones, 10/2015

Article of V. Roca in Interstice, Quand nos smartphones sont espionnés, https://interstices.info/jcms/p_83464/quand-nos-smartphones-sont-espionnes, 09/2015.

Representation of Privatics by V. Roca at Journée numérique au Sénat, 11/02/2015.

Representation of Privatics by M. Cunche at Journée numérique au Sénat, 11/02/2015.

Seminar of C. Lauradoux at the security seminar LORIA, Google Safe Browsing: Security and Privacy, 18/11/2015.

Seminar of C. Lauradoux at GRACE seminar (Inria Saclay), Membership Tests in Security, 18/11/2015.

Seminar CCA of C. Lauradoux, Exploitations concrètes des mauvaises utilisations des fonctions de hachage, 12/06/2015.

Workshop of C. Lauradoux at GREHACK 2015, Sécurité des drones.

Seminar of Marine Miner at LIMOS seminar, CUBE Cipher: Une Famille de Chiffrement par Blocs Quasi-Involutifs et Facile à Masquer, 01/10/2015.

Seminar of Marine Miner at XLIM seminar, CUBE Cipher: Une Famille de Chiffrement par Blocs Quasi-Involutifs et Facile à Masquer, 10/02/2015.

Seminar of Marine Miner at Rennes, Some solutions for security of WSNs, 11/2015.

PROSECCO Project-Team

10.3. Popularization

10.3.1. Popular Press and Vulnerability Reports

The FREAK and Logjam attacks discovered by the miTLS team resulted in articles in many newspapers, magazine, and popular websites, including the New York Times, Wall Street Journal, Economist, and Wired. As a result of our discovery of these attacks and their popularization, major changes were made in all web browsers, web servers, and in the TLS protocol itself.

10.3.2. Seminars

- Catalin Hritcu: invited talks at CoqPL Workshop (Jan 2015), HP Labs France (May 2015), Inria Rennes (Jun 2015), PLAS Workshop (Jul 2015), Microsoft Research Redmond (Aug 2015), University of Washington (Aug 2015), ML Workshop (Sep 2015), Alcatel-Lucent Bell Labs (Dec 2015)
- Karthikeyan Bhargavan: invited talks at Real World Crypto (Jan 2015), Inria Nancy (Feb 2015), OSSIR Paris (Jun 2015), DefCon Crypto Village (Aug 2015), Catrel Workshop (Oct 2015)

QUANTIC Project-Team

8.3. Popularization

Benjamin Huard gave a talk at Journée X-ENS, Ecole Polytechnique, Palaiseau, France (May 2015) in front of an assembly of professors in "classes préparas". He also gave a seminar for students at ENS Paris (Jan 2015).

Benjamin Huard, François Mallet and Mazyar Mirrahimi gave interviews for newspapers, magazines and websites (Libération, La Recherche, Phys.org, les Echos, 01net, Silicon).

Benjamin Huard wrote an article for La Recherche: B Huard, Les microprocesseurs du futur, La Recherche 501, 62 (Juillet 2015).

Pierre Rouchon gave a lecture on "Stabilisation par feedback quantique de la boîte à photons du LKB" (May 21, 2015) during the "journées de l'école doctorale des Universités de Bourgogne et de Franche Comté".

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)

RAPSODI Team

10.3. Popularization

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

REALOPT Project-Team

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

Sébastien Monnet is responsible for the **Science Festival at UPMC for the LIP6**.

Sébastien Monnet and Julien Sopena animated an activity during the Science Festival 2015.

REO Project-Team

10.3. Popularization

- Matteo Aletti
 - presentation, "Raconte-moi ta thèse", Fête de la science, October 10th, 2015, Paris, France
- Chloé Audebert
 - poster session, Journée "Correspondances", Projet PEPS-égalité "Correspondances de Langlands", April 10th, 2015, Paris, France
 - presentation, "Raconte-moi ta thèse", Fête de la science, October 10th, 2015, Paris, France
- Jessica Oakes
 - Tutor and mentor to an under-represented minority student struggling in mathematics (1h per week)
 - SECO: Visit local elementary schools to assist students with hands on science activities (1h per month)
- Irène Vignon-Clementel
 - Intervention at the conference "Research: challenges and adventures", at which the research national strategic plan was presented to the French Prime Minister, in presence of the Minister for Education, Higher Education and Research, Dec 14th., Paris, France <https://www.inria.fr/actualite/actualites-inria/la-strategie-nationale-de-recherche-presentee-au-premier-ministre>

RITS Project-Team

10.3. Popularization

As part of the week of mathematics organized by the Ministry of Education, which theme this year was “les mathématiques nous transportent”, Jean-Marc Lasgouttes presented the transportation-related research at Inria, as well of some simple traffic jam models.

Fawzi Nashashibi participated to the "Rencontres Inria Industrie" organized by Inria@SiliconValley on the topic of "Smart City and Mobility". He gave a speech on "On-demand transportation system for sustainable mobility in smart cities", May 11, San Francisco, USA.

Fawzi Nashashibi participated to a round table organized by La Recherche and Le Monde on "The vehicle of the future: which car in 10 years ?" at Arts-et-Métiers, May 28, Paris, France.

Fawzi Nashashibi participated to the round table on "Ethical and legal questions in robotics" at the 1st National day on "Ethics of digital research" organized by the CERNA at the Mines Telecom Institute, June 15, 2015, Paris, France.

Fawzi Nashashibi organized with Christian Laugier the round table on "Intelligent Mobility" at the joint Innorobo/IEEE ARSO'15 workshop day, July 2, Lyon, France.

Fawzi Nashashibi gave a presentation on "How does the climate change affect mobility and transportation ?" at Solution COP21 exhibition, Paris, December 2015. (Video Link: <http://www.dailymotion.com/video/x3h8vpm>)

RMOD Project-Team

10.3. Popularization

- Marcus Denker gave one presentation about Pharo at the open source conference FOSDEM 2015.
- RMOD co-organized and participated at ESUG 2015.
- Multiple public Pharo Sprints in Lille.
- A MOOC for Pharo is in preparation (Stéphane Ducasse, Damien Cassou)

ROMA Project-Team

10.3. Popularization

Loris Marchal led a “Math en Jeans” workshop at “Lycée Lacassagne” in Lyon.

Frédéric Vivien gave two lectures about “Scheduling” 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>).

SAGE Project-Team

10.3. Popularization

- J. Erhel is co-author of two documents published in Intersitces, about modelling ice sheet evolution and estimating the contribution of Antarctica and Greenland to sea-level rise. [30], [29]
- J. Erhel was one of the coordinators of the Interstices publications devoted to climate change and COP21. She is co-author of the quiz on this subject. [28]
- J. Erhel gave a talk at the show "solutions COP21", held in Grand Palais, Paris, December 2015.
- J. Erhel contributed to the new version of the spelling book for computer science (l'informatique de A à Z), published in November 2015. She was one of the coordinators of the project and she wrote several cards.
- J. Erhel gave a talk in 180 seconds entitled "Enjeux pour les Eaux souterraines: Energie et Environnement", during the Inria scientific days, Nancy, June 2015.
- J. Erhel presented the challenges for groundwater at the meeting between Inria and Sénat, January 2015.
- L. Lenôtre gave a talk at "Lycée René Descartes de Rennes" on the diffusion phenomena and their underlying stochastic processes, February 2015.
- L. Lenôtre participated in the "Fête de la science de Rennes" at Inria stand.

SCALE Team

9.3. Popularization

- Françoise Baude is in charge since September 2011 of the set up and animation of an educational program *Cordées de la Réussite*, which in 2015 has launched a robotic project around the humanoid robot named Poppy. Since 2013, she is in charge of the AVOSTII-STI2D program implementation for Polytech'Nice Sophia, requiring advertising high-school pupils for engineering studies, in particular in ICT.

As EIT Digital Master School University of Nice Sophia-Antipolis coordinator, she is in charge of publicizing, orchestrating, and reporting about all the EIT Digital master programmes involvement of UNS (Internet and Technology Architecture, and Data Science programmes); and as part of the *Paris Node comité de pilotage*, to follow French activities within EIT Digital, and report about UNS activities within this KIC. Overall this mission required about four full-time months of work in 2015. She presented these two master programs at the Telecom Valley Innovation meeting on March 27th and June 18 2015, and in more details at the Kick-Off meeting of the Master School organized in Eindhoven for master students, on October 23th 2015.

She has been invited at the round table “Mystérieuses Big Data” on november 230th that was organized for the 50th anniversary of UNS.

- Fabrice Huet is in charge, since 2011, of the *Informatiques et Sciences du Numérique* courses for the academia of Nice. These courses are offered to high school teachers who volunteer to offer a Computer Science option to their students. He has also given seminars in high school during the *Fête de la Science*.

SECRET Project-Team

9.3. Popularization

- André Chailloux published a paper in the general-audience journal *La Recherche*: Calcul quantique sans erreurs.
- Gaëtan Leurent took part to the radio program *Service Public: "Mot de passe partout"*, France Inter, April 2015 <http://www.franceinter.fr/emission-service-public-mot-de-passe-partout>
- Anne Canteaut gave a talk on cryptography for female students in “Première” and “Terminale” attending the *Girls can code!* week organized at EPITA, August 24-29, 2015 <https://gcc.prologin.org/>.

SELECT Project-Team

9.3. Popularization

Emilie Devijver:

- Organisation of a spring school for high school students about probability, Pristina, Kosovo
- Organisation of the “Séminaire de Vulgarisation des Doctorants” at Université Paris Sud
- Several talks in high schools to give tools to students to understand conferences: “Un texte, un mathématicien” organized at BNF.

SEMAGRAMME Project-Team

8.3. Popularization

- Maxime Amblard is member of the editorial board of *interstice* (a french revue popularisation for computer sciences (<http://interstices.info>)). He is the head of the rubric informatique -ou presque- dans les films and co-author of the series of article on where we could find computer science in real life.
- Maxime Amblard delivered an invited talk “Le langage, logique !” at the “Conférence Curieuse” of Univ. Lorraine, at the Nancy musée aquarium (September 17th 2015).
- Maxime Amblard delivered an invited talk “Le langage, logique !” at the Luxembourg University (October 15th 2015).
- Bruno Guillaume presentend the game ZombiLingo during the conference Science&You in Nancy (June).
- Nicolas Lefebvre demonstrated the prototype ZombiLingo and Jiří Maršík the ACGtk during the “Forum Sciences Cognitive” in Nancy (November).

SEQUEL Project-Team

10.3. Popularization

- Ph. Preux participates to a radio program on machine learning.
- Ph. Preux co-authors two papers on “Le Monde” binaire blog [38].
- Inria interview with N. Vayatis and M. Valko about teaching machine learning at ENS, July 2015.
- Rue89 interviewed M. Valko about machine learning at Inria, June 2015.
- Intel advertising face recognition software (that included the work of M. Valko), February 2015.
- M. Valko volunteered in teaching mathematics in “Association de la Clé”, that helps students from underprivileged backgrounds.
- Jérémie Mary was interviewed by "Ca m'intéresse" for a special issue on artificial intelligence.

SERENA Team (section vide)

SERPICO Project-Team (section vide)

SIERRA Project-Team

10.3. Popularization

S. Lacoste-Julien, general public talk “Apprentissage automatique et big data”, at La Maison des Sciences, Châtenay-Malabry, France, September 2015.

SIROCCO Project-Team (section vide)

SISTM Project-Team

9.3. Popularization

MA and Perrine Soret animate "Les maths sont bonnes pour la santé" for high school students through the "Fête de la Science" organized at Inria, Oct 2015.

SMIS Project-Team

9.3. Popularization

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

SOCRATE Project-Team (section vide)

SPADES Project-Team

9.3. Popularization

Gregor Gössler was the scientific organizer of an In'Tech seminar on *Embedded systems and liability. Failures, accidents: who's to blame*⁰ featuring seven invited speakers and a panel. Led by the INRIA Grenoble - Rhône-Alpes research centre, the In'Tech seminars strive to offer an opportunity for SMEs, industrial operators and researchers to come together, thus promoting technology monitoring and the exchange of information among the various participants in the development of the region's Information Sciences and Technologies.

⁰<http://www.inria.fr/centre/grenoble/actualites/logiciel-embarque-et-responsabilite>

SPECFUN Project-Team

9.3. Popularization

- A. Bostan has published, together with Kilian Raschel, a popularization article titled *Compter les excursions sur un échiquier* in the popular science magazine *Pour la Science*, the French version of the *Scientific American*.

SPHINX Team

10.3. Popularization

Karim Ramdani is interested in economic models of scientific publishing. He has given several talks to raise awareness of researchers on the risks of author-pays publication model.

SPIRALS Project-Team

10.3. Popularization

Julien Duribreux and **Antoine Vuiller** has given a demonstration of the APISENSE[®] crowd-sensing platform (see Section 6.1) at the RIC day in September. The event targets students from computer science master programs and engineering schools in Lille.

Loïc Huertas has participated in June to Rencontres Inria Industries (RII) Futur en Seine organized by the Paris Rocquencourt research center where he presented the PowerAPI software library (see Section 6.2) for energy monitoring of software systems.

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 (2nde and 1^{ère}) have been visited. The theme of the visit was crowd-sensing and data gathering from mobile devices.

STARS Project-Team

10.3. Popularization

François Brémond was invited to give a talk at Conférence des métiers at International Lycée (CIV) in Sophia 28 January 2015.

François Brémond was invited to give a talk at Nice University Conférence, La sSnté du Futur, 5 November 2015.

François Brémond was invited to give a talk at Aditel, Bank Forum, La Baule, Palais des congrès 1 and 2 October 2015.

François Brémond was interviewed by Industry Magazine, 1 October 2015.

STEPP Project-Team

9.3. Popularization

Peter Sturm coordinated, together with Antoine Rousseau (LEMON) and the Direction for Communication, Inria's involvement in the general audience fair dedicated to public research institutions, associated with the COP21 Climate Summit held in December 2015 in Paris. Denis Dupré gave a talk at this event and he and Peter Sturm were part of Inria's delegation at the French research institution's booth, presenting the work of STEEP and Inria to the public.

Emmanuel Prados gave a conference-debat at "Marie Reynoard" High school on "Sustainable development, territorial governance and democracy" (Villard-Bonnot, France, 21th of December, 2015).

In the context of the GICN ("*Groupe Interdisciplinaire sur les Contributions Nationales*") and the climate change conference COP21, Emmanuel Prados have participated in the writing of various newspaper articles [17], [18], [15], [16].

STORM Team

10.3. Popularization

- Olivier Aumage gave a tutorial on task-based runtime systems at the HiPEAC conference in Amsterdam in January 2015.
- Olivier Aumage participated to the Inria Booth at the SuperComputing conference in Austin in November 2015.
- Samuel Thibault gave a talk at the ELCI Workshop in Paris.
- Samuel Thibault published a paper « L'accessibilité partout ! Retour d'expérience sous Debian » in the professional « Programmez ! » journal.

SUMO Project-Team (section vide)

TACOMA Team

8.3. Popularization

8.3.1. Hack'Archi

Organized as part of the "Architecture de la Transformation" call for proposals, the Hack'Archi was an open workshop held in Paris-Belleville school of architecture (ENSA) on 4 and 5 December 2015. About 90 students in disciplines as diverse as architecture, sociology, urbanism and engineering gathered for this 24-hours "architectural hackathon". Students were organized in small teams of 5 or 6 members to work on enriching the preselected projects, proposed by the social landlords.

During the Hack'Archi, Michele Dominici was the representative of the project led by NEOTOA (a french social landlord) and helped 6 students in architecture, sociology, urbanism and engineering proposing new ideas about the on-demand room. We had in charge the leadership and coordination of the students. Our team was awarded the first prize of the Hack'Archi ⁰.

8.3.2. Miscellaneous

- Atelier de l'Innovation, Fondation Rennes 1. <https://fondation.univ-rennes1.fr/actualite/neotoa-nouveau-partenaire-de-la-fondation-0>.
- "Un habitat très prospectif | Espace des sciences". Date accessed: 16 December 2015. <http://www.espace-sciences.org/sciences-ouest/335/dossier/un-habitat-tres-prospectif>.
- Pitch at "Rencontres Inria - Industrie and Meito", 21 May 2015. <http://videos.rennes.inria.fr/InriaMeito2015/index-pitchInriaMEITO2015.html>
- Fondation de l'Université de Rennes 1 - Chaire Habitat Intelligent et Innovation. Date accessed: 16 December 2015. http://www.legrand.fr/formation/fondation-universite-rennes1-chaire-habitat-intelligent-innovation_5746.
- Live video interview at Festival des Sciences, "Samedi en direct du plateau TV du Village des sciences". <https://www.youtube.com/watch?v=MDkKd4PI5vQ&feature=youtu.be&t=4541>.
- Website of the chair "Habitat Intelligent et Innovation". On-line since October 2015. <https://fondation.univ-rennes1.fr/la-chaire-habitat-intelligent-et-innovation>.

⁰Hack'Archi : retour sur 24h d'innovations - Lab CDC. Date accessed: 16 December 2015. <http://labcdc.caissedesdepots.fr/hackarchi-etudiants-et-professionnels-autour-dun-meme-defi/>

TADAAM Team

9.3. Popularization

Brice GOGLIN is in charge of the diffusion of the scientific culture for the Inria Research Center of Bordeaux. He gave numerous talks about high performance computing and research careers to general public audience and school student. He is also involved in the popularization of computer programming and robotics programming and gave several wide audience seminar on these topics.

François PELLEGRINI was invited to give a talk about privacy and information security by the students of ENS Bretagne at Rennes, in the context of their “EntretiENS” conference program.

François PELLEGRINI was a member of the jury of the Student Demo Cup at the Paris Open-Source Summit.

TAO Project-Team

10.3. Popularization

- **Odalric-Ambrym Maillard** May, participation to day "Petits débrouillards", during which secondary schools students come and visit a lab.
- **Aurélien Decelle** May, participation to day "Petits débrouillards", during which secondary schools students come and visit a lab.
- **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).
- **Michele Sebag**, participation to IHP debate on AI and society; panel at Technion Research Day.

TASC Project-Team

10.3. Popularization

- A the 2015 edition of the **Fête de la Science (Nantes University)**:
 - A workshop around *Software for sound processing in the context of the R2D2 robot* was given by **Charlotte Truchet**.
 - One talk on *Travel to the land of dreams : lands, monsters and fairies* was given by **Nicolas Beldiceanu**.
 - Two sessions discussing and answering questions around the work of professor and researcher in computer science with young persons (18 years old) was spent by **Nicolas Beldiceanu** and **Florian Richoux**.
- **Charlotte Truchet** wrote an **article** regarding *women in computer science*.
- **Interview** for the WebTV FranceLive on AI and games in November 2015 by **Florian Richoux**.
- **Interview** for **Nantes University** regarding the collaboration of **Florian Richoux** with **Facebook** in summer 2015.
- Interview of **Florian Richoux** in the Thinkovery magazine (number 3, April-May-June 2015) regarding Artificial Intelligence in Games.
- **Interview** of **Florian Richoux** in Rue89 in March 2015 regarding works of **Google DeepMind** around the Atari game.

TEA Project-Team (section vide)

TITANE Project-Team

10.3. Popularization

Pierre Alliez: two seminars in highschools, participation to the “fête de la science” in Antibes, workshop on 3D reconstruction with Nicolas Douillet and cafe-in (Robust Shape Reconstruction) at Inria Sophia Antipolis.

TOCCATA Project-Team

10.3. Popularization

- A. Charguéraud and S. Boldo contributed to the preparation of the exercises of the *Concours Castor informatique* <http://castor-informatique.fr/>. A. Charguéraud is also one of the three organizers of this contest. The purpose of the Concours Castor is to introduce pupils (from *CM1* to *Terminale*) to computer sciences. More than 345,000 teenagers played with the interactive exercises in November 2015.
- C. Marché, together with J. Kanig from AdaCore company, wrote an article in the ERCIM news journal [17] to advertise on the work done in the ProofInUse joint laboratory for the popularization of formal methods in the development of safety-critical Ada programs.
- S. Boldo, with T. Vieville (Mnemosyne team, Inria Bordeaux - Sud-Ouest), F. Maseglier (Zenith team, Inria Sophia Antipolis - Méditerranée) and P. Bernhard (INRA) wrote a text about the TIPE 2016 (personal work before the competitive entrance in engineering schools). The topic was “Structures: organization, complexity, dynamic”. This was published on the popularization website <http://pixees.fr> [31].
- S. Boldo co-organized popularization talks for the administrative staff of Inria Saclay - Île-de-France. She gave a talk on January 29th about a scientific article [21] and led a coding session (with Scratch) on February 12th with A. Imperiale (M3DISIM team).
- S. Boldo co-organized the coming of teenagers from the collège Flemming in Orsay to the laboratory on May 28th and gave talks to several groups all day long.
- S. Boldo co-organized the Inria Saclay - Île-de-France *Fête de la science*. She created two stands (about programming) and run one on October 9th.
- S. Boldo gave a talk to the winners of the Mathematics Olympiads on June 10th in Rocquencourt.
- S. Boldo gave a talk at the “Girls can code” week on August 27th, in Paris.
- S. Boldo gave a talk to high school teenagers in Angers on October 12th.
- S. Boldo gave a talk to “Classes Préparatoires” at l’Essouriau, Les Ulis on September 24th.
- S. Boldo gave a talk at “Futur en Seine” a popularization festival in Paris and Paris area, in Orsay, on June 18th.
- C. Paulin together with I. Glas from labex DigiCosme is proposing an introduction to computer science (various activities on programming, data representation, algorithms during 6 sessions of 1 hour) as an extracurricular activity in schools for pupils in *CM1-CM2*.
- C. Paulin organised in 2015 the third edition of the Concours ISN of the Labex DigiCosme, supported by the Rectorat de l’Académie de Versailles. Selected projects developed by the high school pupils (*Terminale*) as part of their curricula in Computer Science are submitted to this contest. The best projects are selected and presented during a general event.
- C. Paulin, I. Glas, and A. Paskevich run a stand (introduction to information technologies and programming) during the “Fête de la science” Île-de-France on October 9 and 10.

TONUS Team

10.3. Popularization

Philippe Helluy participated to the redaction of an ONISEP brochure about the jobs related to Mathematics or computer sciences <http://www.onisep.fr/Toute-l-actualite-nationale/Decouvrir-les-metiers/Mars-2015/Zoom-sur-les-metiers-des-mathematiques-et-de-l-informatique>

Michel Mehrenberger is in the IREM ("Instituts de recherche sur l'enseignement des mathématiques") team "Modélisation" for the year 2015-2016.

TOSCA Project-Team

10.3. Popularization

- M. Deaconu gave an interview for a paper in Eureka Lorraine. URL : <http://eureka.lorraine.eu/jahia/Jahia/pid/1968?actu=23647>

TYREX Project-Team

8.3. Popularization

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

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

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

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

URBANET Team

10.3. Popularization

- Hervé Rivano gave a popularization talk entitled "Réseaux de capteurs urbains" in the Tuba X-pert session of February 2015.
- Hervé Rivano participated to a TV Show on "IoT and Smart Cities", Tele Grenoble, April 2015.
- Razvan Stanica gave a popularization talk entitled "Teaching Our Cars How to Speak: Communications for Intelligent Transportation Systems" in the internal meeting of the Transportation Group of the Spie company.

VEGAS Project-Team

8.3. Popularization

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

VERIDIS Project-Team

10.3. Popularization

Marie Duflot-Kremer took part in various popularization activities, with a public ranging from primary school kids to high school and potential University students. A selection of these activities is given below:

- two days at “Fête de la science” in Nancy;
- a course on databases for high school professors in charge of teaching optional course ISN (Informatique et Sciences du Numérique);
- her explanations of unplugged activities have been recorded by Inria, and a Youtube channel has been created by the Interstice team to promote and share such activities;
- she is a member of two groups dedicated to the training of math teachers who will teach computer science to students of age 11 to 18;
- “Journée femmes de Sciences”: one day dedicated to the promotion of science among 14 years old girls;
- she is a member of the steering committee preparing an itinerant exposition intended for explaining computer science to the public, to be released in 2016;
- she presented a poster at the Scratch2015 conference about teaching computer programming to kids from the age of 8 years onward.

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

Martin Quinson organized a 2-days workshop for secondary math teachers on how algorithms could be used to reinforce the abilities of pupils to verbalize, set out arguments and conduct rigorous demonstrations (Nancy, March 2-3 2015). This workshop was co-organized by the IREM (Institut de Recherche en Enseignement des Mathématiques) of Nancy. He also co-organized a one day workshop for about 100 secondary computer science teachers. This event spreads the best practices to teach our topic (Nancy, March 12th 2015). Martin Quinson was a scientific expert in an experiment in which we explored how Scratch can be used to teach Computer Science in after school activities every week for the whole week. The results of this experiment, conducted in a collaboration between Inria and the MJC Nomade (Nancy) were published in [35].

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

VIRTUAL PLANTS Project-Team

9.3. Popularization

- Christophe Godin and Frédéric Boudon presented the Secret Code of Flowers in the context of an Inria initiative at the Science Festival in October.
- Christophe Godin gave several classes at Lycée Pompidou, Castelnau Le Lez, at Terminal level and gave a "Café-in" seminar on "Comment les plantes font-elles des mathématiques ?"

VISAGES Project-Team

10.3. Popularization

- Conference/public debate : C. Barillot "Imagerie de population: Noeud FLI-IAM", Journées Françaises de Radiologie
- Exposition : Stand démonstration Inria, Journées Françaises de Radiologie
- Exposition : Stand démonstration FLI-IAM, SFRMBM
- Press : G. Edan "Les maladies du cerveau, un enjeux majeur a relever", Ouest-France
- Popularization Web site: C. Barillot "Neurofeedback to Leverage EEG and MRI Simultaneously", lettre d'information Emergences Inria (http://emergences.inria.fr/2015/Newsletter36/L36_NEUROFEEDBACK)
- Audiovisual: "MedInria", France 3 Cote d'Azur (http://pluzz.francetv.fr/videos/jt_1920_cote_dazur.html)
- Conference/public debate : JY Gauvrit, "Les progrès de l'image du cerveau", Espace des Sciences, Rennes, March 17th

WHISPER Project-Team

10.3. Popularization

Julia Lawall presented a tutorial on Coccinelle at the 2015 KVM Forum in Seattle, Washington, USA in August 2015 (“Getting Started with Coccinelle (KVM edition)”, <http://kvmforum2015.sched.org/>)

Julia Lawall organized a Development Tools Tutorial microconference at the 2015 Linux Plumbers Conference in Seattle, Washington, USA in August 2015 (<http://linuxplumbersconf.org/2015/ocw/events/LPC2015/tracks/423>). She also gave a talk “Introduction to Coccinelle” at that event.

Julia Lawall served on the program committee for the joint Linuxcon Linux Plumbers session at Linuxcon 2015, and on the program committee of the 17th Real Time Linux Workshop (industry workshop).

Julia Lawall served as a mentor for the Linux kernel in the Outreachy internship program for women and other underrepresented groups in winter and summer 2015 (<https://www.gnome.org/outreachy>). She also served as the Linux kernel coordinator for the Outreachy internship program, and organized panel presentations about the program at LinuxCon North America in Seattle, Washington, USA in August 2015 (<http://events.linuxfoundation.org/events/archive/2015/linuxcon-north-america>), and at LinuxCon Europe in Dublin, Ireland in October 2015 (<http://events.linuxfoundation.org/events/archive/2015/linuxcon-europe>).

Julia Lawall participated in the Linux Kernel developer panel at LinuxCon Europe in Dublin, Ireland in October 2015 (<http://events.linuxfoundation.org/events/archive/2015/linuxcon-europe>).

WILLOW Project-Team (section vide)

WIMMICS Project-Team

9.3. Popularization

Fabien Gandon's general talks ⁰:

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

Catherine Faron-Zucker's general talks:

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

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

ZENITH Project-Team

10.3. Popularization

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

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

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

Zenith participated to the following events in Montpellier:

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

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

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

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

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

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

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