Activity Report 2013

Section Popularization

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9.4. Popularization

- Nathalie Revol gave talks for pupils at collèges and lycées, as an incentive to choose scientific careers: lycée Jeanne d’Arc (Cessy, Ain), lycée Rosa Parks (Neuville, Rhône). During the “Week of mathematics”, she gave a 2-hour talk at lycée de la Plaine de l’Ain (Ambérieu-en-Bugey, Ain). She was present, took part in speed-meetings, and gave talks for the “Mondial des Métiers” (Eurexpo Lyon, Chassieu, Rhône) and for “Science au Carré(e)” (Forum des Halles, Paris). For the Science Fair, she gave 8 talks at ENS de Lyon. She was invited to “Interacadémiques” in Lyon, for an audience of inspecteurs d’académie. She supervised the internship of Quentin Chopinet (1e S, one week) and hosted Elsa Courtais (spé TSI, one day).

- Damien Stehlé was interviewed for an article in *La Recherche*, published in September 2013.
9.3. Popularization

- Jérémie Detrey gave a presentation on the Enigma machine and its cryptanalysis to high-school teachers as part of the “journée EPI-ISN”.
- Pierrick Gaudry gave a presentation at the “journée de l’Association francophone des spécialistes de l’investigation numérique”.
- Marion Videau:
  - gave a talk for the awards ceremony of the *Olympiades de maths* in Lorraine.
  - gave a practical session of cryptography and information security for students from *lycées* taking part in an immersion day at the faculty.
  - participated to events on information about university studies for pupils and students (Clés de la réussite, Portes ouvertes de la faculté des sciences, Oriaction).
- Paul Zimmermann takes part in the “Maths-en-Jeans” program, with about 20 students in “troisième” at the Collège Pierre Brossolette in Réhon.
CASCADE Project-Team (section vide)
6.3. Popularization

Phong Nguyen gave several invited talks:

- [17] at the Workshop on Number Theory, Geometry and Cryptography in UK.
- [16] at the Workshop on Algebraic Aspects of Cryptography in Japan.
9.3. Popularization

Jean-Daniel Boissonnat, Au delà de la dimension 3, Café Inria Sophia Antipolis.
Jean-Daniel Boissonnat, Geometry Understanding in Higher Dimensions. Conference for the students of ENS Lyon (Inria Sophia Antipolis)
Monique Teillaud, “à quoi sert un triangle ?”, 2x2h, Collège Le Prés des Roures, Le Rouret, in the framework of the national Week of Mathematics.
Steve Oudot was coordinator of the Photomaton 3d booth at the Nuit des chercheurs event at École polytechnique in September 2013. Marc Glisse, Maks Ovsjanikov, Mickaël Buchet, and Thomas Bonis also participated.
9.5. Popularization

- Alain Couvreur gave a talk at UniThé ou Café, a monthly science popularization event dedicated to all the employees of Inria Saclay.
- Daniel Augot presented bit operations, the Hamming code, the one-time pad and a bit of steganography to high school students in Courcouronnes, 10/04/2013.
LFANT Project-Team (section vide)
POLSYS Project-Team (section vide)
SECRET Project-Team (section vide)
Specfun Team

9.3. Popularization

- A. Mahboubi has been involved in the scientific committee for the elaboration of the board game *Mémoire Vive* produced by the Inria communication services.
- A. Mahboubi has given a talk at the forum STIC Paris-Saclay (Palaiseau, France) in November 2013.
7.3. Popularization

Guillaume Moroz: Member of the organizing committee of the Olympiades académiques de mathématiques.
9.3. Popularization

- Erven Rohou gave a talk at the SFGP (Société Française du Génie des Procédés): “Stratégies d’augmentation des performances de calcul des logiciels”
- Isabelle Puaut and Erven Rohou gave a lecture at Lycée Descartes: “Les mathématiques au service de la performance des ordinateurs”.
ATEAMS Project-Team

7.3. Popularization

- Paul Klint, ‘BaMa: Key to the Future?’, invited talk at IW1010: 10 Years of UvA Information Sciences, Amsterdam
- Paul Klint, “Understanding the Quality of Open Source Projects”, invited talk at SATToSe, Bern
- Tijs van der Storm: “Domain-specific languages”, Guest lecture Bachelor Computer Science, Universiteit van Amsterdam
- Tijs van der Storm, Kevin van der Vlist, Jimi van der Woning: “Questionnaires in Rascal”, participation Language Workbench Challenge 2013 (LWC’13).
- Tijs van der Storm, Alex Loh: “Questionnaires in Ensō”, participation Language Workbench Challenge 2013 (LWC’13).
- Jurgen Vinju: “Modularity”, Guest lecture Bachelor Computer Science, Universiteit van Amsterdam
- Jurgen Vinju, Tijs van der Storm, Atze van der Ploeg: “CWI In Bedrijf” (CWI and Industry), demonstration of Rascal language workbench using the NAO robot DSL “Marvol”.
CAIRN Project-Team

8.4. Popularization

A popularisation paper on energy efficiency has been published in [80].

15 members of the team participated in the national science festival (Fête de la Science) in Plemeur-Bodou in October (demonstrations on wireless sensor networks, cryptology and digital integrated circuits).

A letter was published in Inria Emergences on “improving energy efficiency of embedded processors”: http://emergences.inria.fr/lettres2013/newsletter-n28/L28_GECOS
CAMUS Team

9.3. Popularization

- Cédric Bastoul participated to the *Rencontres Inria-Industrie* in June 2013
- Cédric Bastoul participated to *Fête de la Science* at University of Paris-Sud in October 2013
COMPSYS Project-Team (section vide)
CONTRAINTES Project-Team (section vide)
9.3. Popularization

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

Philippe Marquet is involved in scientific popularization, mostly within the context of a partnership of between the Inria Lille - Nord Europe Research Center, the University Lille 1, and the Académie of Lille. 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. This year, 30 “proviseurs”, 30 teachers, and about 170 students spend half a day on the Plateau. He has designed the isnlilleacademie.fr web site (http://www.isnlilleacademie.fr), an information site on the spécialité ISN (computer and digital science in french high schools) for pupils, students, and their parents’.

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

The Web is becoming the richest platform on which to create computer applications. Its power comes from three elements: modern Web browsers enable highly sophisticated graphical user interfaces (GUIs) with 3D, multimedia, fancy typesetting, among others; calling existing services through Web APIs makes it possible to develop sophisticated applications from independently available components; and open-data availability allows access to a wide set of information that was unreachable or that simply did not exist before. The combination of these three elements has already given birth to revolutionary applications such as GoogleMaps, radio podcasts, and social networks.

The next step is likely to be incorporating the physical environment into the Web. Recent electronic devices are equipped with various sensors (GPS, cameras, microphones, metal detectors, speech commands, thermometers, motion detection, and so on) and communication means (IP stack, telephony, SMS, Bluetooth), which enable applications to interact with the real world. Web browsers integrate these features one after the other, making the Web runtime environment richer every day. The future is appealing, but one difficulty remains: current programming methods and languages are not ideally suited for implementing rich Web applications. This is not surprising as most have been invented in the 20th century, before the Web became what it is now.

Traditional programming languages have trouble dealing with the asymmetric client-server architecture of Web applications. Ensuring the semantic coherence of distributed client-server execution is challenging, and traditional languages have no transparent support for physical distribution. Thus, programmers need to master a complex gymnastics for handling distributed applications, most often using different languages for clients and servers. JavaScript is the dominant Web language but was conceived as a browser only client language. Servers are usually programmed with quite different languages such as Java, PHP, Ruby, etc. Recent experiments such as Node.js propose using JavaScript on the server, which makes the development more coherent; however, harmonious composition of independent components is still not ensured.

In 2006, three different projects, namely, GWT from Google, Links from the University of Edinburgh, and HOP from Inria (http://www.inria.fr) [6], offered alternative methods for programming Web applications. They all proposed that a Web application should be programmed as a single code for the server and client, written in a single unified language. This principle is known as multitier programming.

Links is an experimental language in which the server holds no state and functions can be symmetrically called from both sides, allowing them to be declared on either the server or the client. These features are definitely interesting for exploring new programming ideas, but they are difficult to implement efficiently, making the platform difficult to use for realistic applications.

GWT is more pragmatic. It maps traditional Java programming into the Web. A GWT program looks like a traditional Java/Swing program compiled to Java bytecode for the server side and to JavaScript for the client side. Java cannot be considered as the unique language of GWT, however. Calling external APIs relies on JavaScript inclusion in Java extensions. GUIs are based on static components declared in external HTML files and on dynamic parts generated by the client-side execution. Thus, at least Java, Javascript, and HTML are directly involved.

The HOP language takes another path relying on a different idea: incorporating all the required Web-related features into a single language with a single homogeneous development and execution platform, thus uniformly covering all the aspects of a Web application: client-side, server-side, communication, and access to third-party resources. HOP embodies and generalizes both HTML and JavaScript functionalities in a Scheme-based platform that also provides the user with a fully general algorithmic language. Web services and APIs can be used as easily as standard library functions, whether on the server side or client side.

In order to popularize HOP, we have written a paper for targeting engineers which presents on overview of the HOP language and its development environment. It has been simultaneously published in ACM Queue and Communications of the ACM [5]. We have also given several demonstrations of the system. In particular,
Cyprien Nicolas has co-developed application software for an educational cable robot (Coprin) presented at the Fête de la Science, in November. The demo consisted in a Cable bot built by a Coprin student and piloted by Hop, the software being written by a Indes student. The demo took place in front of four classes of High School students.


8.3. Popularization

Participants: Jean-Christophe Bach, Pierre-Etienne Moreau.

Jean-Christophe Bach participated to scientific mediation by proposing several activities to demonstrate the *algorithmic thinking* at the core of the Computer Science without requiring any computer or even electric devices. These activities are the first part of the CSIRL (Computer Science In Real Life) project which aims to popularize computer science and to initiate children, school students and non-scientists into this domain. These activities were presented during the high school students welcome at LORIA and Inria - Nancy Grand Est, and also during APMEP\(^0\) days. Jean-Christophe Bach also took part to the “Fête de la science” in October. Jean-Christophe Bach was also involved in popularization activities with Interstices\(^0\) by writing short debunking articles (“Idées reçues”) for non computer scientists about Church’s thesis and Turing’s work [15]. Other popularization articles are still under work.

Pierre-Etienne Moreau gave two lectures about “Robotics and Programming” in the ISN course (Informatique et Science du Numérique), in order to help professors of “classes de terminale” to teach this discipline.

Pierre-Etienne Moreau organized a three day course about “Algorithms, Programming and Databases” in order to help professors of “classes préparatoires aux grandes écoles” to teach this discipline.

\(^0\) [http://www.apmep.asso.fr/](http://www.apmep.asso.fr/)
\(^0\) [http://interstices.info](http://interstices.info)
9.3. Popularization

- Within the context of the global constraint catalog:
  - we provide more exercises (up to 55 currently) with their solution and a web version allowing some interaction will be available in spring 2014.
  - the effort for converting and completing the 900 figures of the catalog using TikZ has been continued up to a point where beginning 2014 only 150 figures need still to be converted.

- Within the context of the library IBEX the following courses were given:
  - A workshop in June and December 2013 in Brest (ENSTA).
  - A user oriented course in July 2013 at the doctoral days of the GDR Macs in Strasbourg.
  - A developer oriented course IBEX days in October 2013 in Paris (Ecole des Ponts, Paritech).

- A the 2013 edition of the Fête de la Science (Nantes University):
  - Two talks on Artificial Intelligence and real time strategy games were given by Florian Richoux.
  - One talk on Challenges around optimizations problems was given by Xavier Lorca.
  - One half day discussing and answering questions around the work of professor and researcher in computer science with young persons (17 years old) was spent by Nicolas Beldiceanu.
ESPRESSO Project-Team (section vide)
9.3. Popularization
TRIO Team (section vide)
AOSTE Project-Team

9.3. Popularization

We held a thematic Spring School in late April in Shanghai, based on the topics of the DAESD associated-team 8.4.1.1. It was open to students from all over China, and we invited also chinese speakers (but the attendance of around sixty students was mostly from several universities in and around Shanghai).
9.3. Popularization

H. Garavel participated to the committee in charge of organizing the Aerospace Valley series of industrial conferences on formal methods. The second conference \(^0\) \(^1\), devoted to static analysis, held on June 28, 2013 in Toulouse and retransmitted by video-conference in Grenoble, attracted 95 participants from industry and academia.

R. Mateescu was in charge of the scientific organization of the In’Tech seminar entitled “Formal Validation of Industrial Critical Systems” held on April 18, 2013 at the Inria Grenoble – Rhône-Alpes research center in Montbonnot. The seminar attracted about 100 participants from academia and industry. F. Lang gave a public demonstration of the CADP tools and R. Mateescu gave a talk entitled “Formal Modeling and Verification of Concurrent Systems using CADP”.

\(^0\) http://www.inria.fr/centre/grenoble/agenda/forum-methodes-formelles
\(^1\) http://www.inria.fr/centre/grenoble/actualites/ffabilite-des-logiciels-pas-uniquement-pour-les-avions
Hycomes Team (section vide)
9.3. Popularization

MuTant team was featured in the 2nd edition of Made In France (MIF) Expo in the major Exhibition Hall in Paris (Porte de Versaille) with a dedicated stand for Antescofo with more than 3 million visitors during 3 days.

![Antescofo demo in Ministry of Industry featuring Marlène Schaff (French THE VOICE, Season 2)](mutant/IMG/ONFI3.jpg)

Figure 6. Antescofo demo in Ministry of Industry featuring Marlène Schaff (French THE VOICE, Season 2)

Antescofo was featured by the French Ministry of Industry for a public talk and largely diffused demo featuring the french star singer Marlène Schaff from *The Voice*.

Arshia Cont was invited for a public presentation/demo of Antescofo for the 20th anniversary of the Prix La Recherche. Click for video.

Jean-Louis Giavitto has co-animated the public discussion following the movie "Codebreaker: Alan Turing" with C. Villani and G. Berry at the Cinema Grand Action. He gave several seminars for a non computer scientist audience:

- "Analyse formelle des concepts, Q-analyse et programmation spatiale : quelques aspects philosophiques du nœud mathématique/musique/ informatique, séminaire MaMuPhi, l’Ecole Normale (february 2013);
- "Écriture du temps et de l’interaction en informatique musicale", séminaire Philosophie de l’informatique, de la logique et de leurs interfaces, Centre Cavaillès, Ecole Normale, (mars 2013);
- “Modélisation spatiale et approche géométrique en musique”, Journées nationales du RNSC (octobre 2013);
- "Simultanéité, succession et durée dans l’interaction musicale en temps-réel”, séminaire MaMux Temps, rythme et arithmétique, (décembre 2013).

As the redactor-in-chief of TSI, Jean-Louis Giavitto has initiated a new section devoted to portraits and talking with french personalities in computer science. These articles are also published in the SIF journal.
José Echeveste has presented Antescofo and participated to the event organized for the “Fête des Sciences” at Forum des Halles and UPMC.

We have published a popularization article on "Computer Assisted Music" in the review DocSciences, number 15.
PARKAS Project-Team (section vide)
SPADES Team (section vide)
FORMES Team (section vide)
SECSI Project-Team

8.3. Popularization

- Stéphanie Delaune, member of the scientific mediation committee at Inria Saclay. (“Mediation” is the new name for popularization.)
- Rémy Chrétien and Stéphanie Delaune, La protection des informations sensibles, article in Pour La Science, Nov. 2013.
Xavier Rival gave an interview about the verification of safety critical embedded softwares to the “Inriality” online magazine, in July 2013.
8.3. Popularization

Frédéric Besson and Nataliia Bielova have presented their approach for quantifying web-fingerprinting in the "Du côté de la recherche" section of the November issue of Ouest Inria.

David Pichardie organised the third edition of the french Castor Informatique contest. This contest promotes Computer Science in secondary schools and high schools. It is organised by Inria, ENS Cachan and the France IOI association and supported by CNRS, Pascaline, the SIF and API associations. In 2013, there was about 170,000 participants.
DEDUCTTEAM Exploratory Action

8.3. Popularization

- **Seminars in international workshops without peer review**
  - Gilles Dowek has participated to the workshop Locali in Beijing where he has given a talk.

- **Seminars in national workshops without peer review**
  - Gilles Dowek has participated to the workshop Rochebrune 2013 *La preuve et ses moyens*, where he has given a talk.
  - Gilles Dowek has given several talks on Computer Science in Education, at the congrès de la SIF, the workshop EPI in Nancy, the workshop UPS in Luminy, the journée ISN in Orsay, the journée Pascaline in Paris, etc.
  - Gilles Dowek has given several popular science talks: in Paris for the young kangaroos, in Athens, and in the Lycée Raoul Folleraux.

- **Other seminars**
  - Alejandro Díaz-Caro. Non determinism (and probabilities) through type isomorphism. LIP, École Normale Supérieure. Lyon, France. February 21.
9.3. Popularization

Jacques-Henri Jourdan and Arthur Charguéraud participated in the organization of the Castor computer science contest (http://castor-informatique.fr/). This contest aims at making computer science more popular in French high schools and junior high schools. It attracted over 170,000 participants.

Fabrice Le Fessant is one of the organizers of the OCaml meetup in Paris. Four events were organized in 2013, each featuring four short presentations on topics related to OCaml. Each event was attended by about 60 participants.

Xavier Leroy gave a tutorial on using theorem provers in programming language research at the 2013 ACM SIGPLAN Programming Languages Mentoring Workshop, which was attended by about 80 undergraduate, graduate and post-doctoral students.

Since 2012, the Gallium team publishes a research blog at http://gallium.inria.fr/blog/, edited by Gabriel Scherer. This blog continued its activity in 2013, with 26 posts by 12 different authors. It covered various changes in the OCaml language, announced small software libraries from members of the team, and discussed Gallium’s research, notably the Mezzo language.
8.3. Popularization

Yves Bertot participated to two articles published in popular science magazines (Science et Vie and Science et Avenir) and Laurence Rideau to one of these articles.
8.3. Popularization

Benedikt Bollig gave an invited talk at the German Workshop “Automaten und Logik”, held on September 25, 2013, in Ilmenau.

Paul Gastin has given a talk on "Automates: Applications et Algorithmique" during the Rencontres Algorithmiques et Programmation, addressing secondary teachers of the classes préparatoires level, at CIRM Marseille, 6 to 10 May. He also gave an invited talk on Evaluation of Weighted Specifications over Nested Words for the opening of the research training group Quantitative Logics and Automata (QuantLa), Leipzig, on April 30.
PARSIFAL Project-Team (section vide)
7.3. Popularization

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

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

Yann Régis-Gianas gave several conferences about computer science in several primary schools of Paris.
SUMO Team

9.3. Popularization

Loïc Hélouët contributed to a visit of young pupils (3e) visiting IRISA to discover a research environment in February 2012. He did a short interactive presentation (1 hour) of his research theme, and of the duties of a researcher.

Éric Fabre gave a survey presentation about failure diagnosis in telecommunication networks to the 2nd year students of ENST Bretagne (Brest) engaged in a research training track. This was followed by informal discussions about the every day life of a researcher.
TOCCATA Team
9.3. Popularization

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

Marie Duflot-Kremer presented exercise sessions for high school students on “conducting a police investigation using databases” and “discovering Turing machines with Lego bricks”. She is also a member of the steering committee preparing an itinerant exposition intended for explaining computer science to high-school students.

Thomas Sturm, Uwe Waldmann, and Christoph Weidenbach are involved in the “Computer Science Research Days” which take place every year. Gifted students from all over Germany can actively participate in current research themes within the Max Planck Institute for Informatics, the Computer Science Department of Saarland University and the German Research Center for Artificial Intelligence. The goal is to fill young people with enthusiasm for the subject of computer science as well as to discover and support the development of new talent.
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.

This year, in particular, the center participated to organization of mathematics competitions and projects for high school students, to conferences for computer science high school teachers, to the “Fête de la Science”, to the "Moments d’invention" exhibition of the “Nancy Renaissance” event, and received several high school classes in various research teams of Inria Nancy Grand-Est. Details can be found at https://iww.inria.fr/NanSciNum/#.UsGBEW7uKY8.
9.3. Popularization


Fête de la Science 2013: Science popularization action during one week on a workshop “a cryptographic treasure hunting”. Véronique Cortier, David Galindo, Stéphane Glondu, Steve Kremer, Éric Le Morvan, Cyrille Wiedling.

Video gaming month at the “Fabrikà Science”, University of Franche-Comté, December 2013. Popularization of computer science using the topic of video games. Frédéric Dadeau.
COMETE Project-Team (section vide)
DICE Team

9.3. Popularization

Intervention in other arenas:

- Co-organization of the CARA community, that gather IT professionals around agility design. Meetings occurs once per month from 7PM to 10PM and gather around 50 people to discuss and debate. The complete animation scheme is available at http://lyon.clubagilerhonealpes.org/

- La révolution numérique, L’enseignement philosophique et les sciences: nouvelles perspectives, Fondation Simone et Cino del Duca, Paris, 13 novembre 2013


- La Révolution numérique, un enjeu politique, Conférence au Cercle Pierre Mendes France de Lyon, 25 juin 2013

- Les données, nouveau moteur de l’économie, Congrès France Génétique Elevage, janvier 2013

Intervention in political instances. The Dice team aims at interacting with political representatives at the French Assemblée nationale, the Sénat, as well as instances of the European Union.


- La dépendance de la France en matière de données et services numériques, Assemblée Nationale, Audition publique du 21 février 2013, "Le risque numérique : en prendre conscience pour mieux le maîtriser ?"
8.3. Popularization


Mathieu Cunche, Smartphone, Wi-Fi et vie privée : comment votre smartphone peut se révéler être votre pire ennemi [35], October 2013, MISCAMAG.


Cédric Lauradoux and Levent Demir, Guesswork [40], October 2013, MISCAMAG.

9.3. Popularization

9.3.1. Vulnerability Reports

- Benjamin Smyth and Alfredo Pironti reported TLS truncation vulnerabilities to Helios, Microsoft, and Google, and presented a talk at BlackHat USA. They were acknowledged in Google’s Hall of Fame.
- Karthikeyan Bhargavan and Antoine Delignat-Lavaud reported HTTPS header truncation vulnerabilities in Google Chrome and Apple Safari, resulting in a security update to Google Chrome.
- Karthikeyan Bhargavan and Antoine Delignat-Lavaud reported TLS protocol-level vulnerabilities in Internet Explorer, Google Chrome, and Mozilla Firefox, resulting in security updates to all three.
- Antoine Delignat-Lavaud reported new vulnerabilities in Akamai-hosted websites, resulting in an update to Akamai’s web caching network.