



RESEARCH CENTER  
Saclay - Île-de-France

FIELD

Activity Report 2014

# Section Popularization

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## **COMETE Project-Team**

### **8.3. Popularization**

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

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

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

## **GEOMETRICA Project-Team**

### **9.3. Popularization**

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

## **GRACE Project-Team**

### **9.4. Popularization**

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

## **MEXICO Project-Team**

### **9.3. Popularization**

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

**PARSIFAL Project-Team (section vide)**



## **POSTALE Team**

### **8.3. Popularization**

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

## **SPECFUN Project-Team**

### **9.4. Popularization**

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

## TOCCATA Project-Team

### 9.3. Popularization

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

## **COMMANDS Project-Team**

### **9.3. Popularization**

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

## **DEFI Project-Team**

### **9.3. Popularization**

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

## DISCO Project-Team

### 9.3. Popularization

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

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

**GECO Project-Team (section vide)**

## **Maxplus Project-Team**

### **9.3. Popularization**

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



## POEMS Project-Team

### 9.3. Popularization

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

**REGULARITY Project-Team (section vide)**

## **SELECT Project-Team**

### **9.3. Popularization**

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

## **TAO Project-Team**

### **9.3. Popularization**

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

## **AMIB Project-Team**

### **7.3. Popularization**

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

## GALEN Project-Team

### 9.3. Popularization

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

## **M3DISIM Team**

### **8.3. Popularization**

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

## **PARIETAL Project-Team**

### **9.3. Popularization**

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



## **POPIX Team**

### **9.3. Popularization**

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

## INFINE Team

### 9.3. Popularization

**Aline Carneiro Viana:**

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

**Cédric Adjih, Emmanuel Baccelli, Oliver Hahm:**

- **Demonstration of RIOT at CeBIT 2014**, the world's leading IT trade show.
- **Description of IoT-LAB, and test of IoT-LAB nodes at the IETF 6TiSCH plugfest** during IETF-89 in London.
- **Demonstration of RIOT on heterogeneous IoT hardware** At the IETF 6TiSCH plugfest during IETF-89 in London ([https://bitbucket.org/6tisch/meetings/wiki/140306a\\_ietf89\\_london\\_plugfest](https://bitbucket.org/6tisch/meetings/wiki/140306a_ietf89_london_plugfest)).
- **Demonstration of IoT-LAB (Contiki RPL experiments)** at the **Bits-n-Bytes event of IETF-90** in Toronto.
- **Demonstration of RIOT (CCN - 6LoWPAN interoperating)** at the **Bits-n-Bytes event of IETF-90** in Toronto.
- **Demonstration of IoT-LAB** also at the **LLN plugfest** of the same IETF-90 in Toronto.
- **Demonstration of RIOT tsch functionalities with OpenWSN integration** at the **LLN plugfest** of the same IETF-90 in Toronto.

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

## AVIZ Project-Team

### 9.3. Popularization

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

## **DAHU Project-Team**

### **9.3. Popularization**

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

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

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

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

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

## IN-SITU Project-Team

### 8.3. Popularization

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

## **OAK Project-Team**

### **8.3. Popularization**

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