



RESEARCH CENTER

FIELD

**Networks, Systems and Services,  
Distributed Computing**

Activity Report 2018

# Section Popularization

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## Coast Project-Team

### 9.3. Popularization

#### 9.3.1. Internal or external Inria responsibilities

- Claudia-Lavinia Ignat is in charge of European affairs for Inria Nancy Grand-Est. She is the Delegate of International Relations for Inria Nancy-Grand Est and member of COST-GTRI commission. She is a member of the Inria Nancy-Grand Est COMIPERS committee. She is a member of Inria CAP Chercheurs commission. She is responsible with the activity kindergarten at AGOS Inria Nancy-Grand Est. She is a member of the organisation committee of the Security Seminar at LORIA.
- Gerald Oster is a member of the council of the scientific pole AM2I (Automatique, Mathématiques, Informatique et leurs Interactions) of University of Lorraine

## **CTRL-A Project-Team**

### **9.3. Popularization**

#### **9.3.1. Articles and contents**

The Ctrl-A team is featured in a special issue on the numeric world in the "*Dauhiné Libéré des enfants*" (nov.-dec. 2018).

#### **9.3.2. Internal action**

The Ctrl-A team participated in the event "mon équipe en 180 secondes" at Inria Montbonnot.

## **DELYS Team**

### **8.3. Popularization**

Jonathan Lejeune and Julien Sopena animated an activity during the [Science Festival 2018 at Sorbonne Univ.](#)

## **MIMOVE Project-Team**

### **10.3. Popularization**

#### ***10.3.1. Internal or external Inria responsibilities***

- V. Issarny, Appointed member: CODEV, *Métropole du Grand Paris* (Since December 2018).



## MYRIADS Project-Team

### 10.3. Popularization

#### 10.3.1. Internal or external Inria responsibilities

Martin Quinson is on the scientific board of the Blaise Pascal foundation, boosting the scientific outreach in the domains of Maths and Computer Science.

#### 10.3.2. Articles and contents

- Anne-Cécile Orgerie participated to the radio program La methode scientifique by Nicolas Martin with Jean-Marc Jancovici, France Culture, October 17, 2018.
- Anne-Cécile Orgerie was interviewed by Agnes Rougier, Radio France Internationale, September 26, 2018.
- Anne-Cécile Orgerie was interviewed by Laure Cailloce for the Journal of CNRS, May 2018.

#### 10.3.3. Education

- L codent L créent - An outreach program to send PhD students to teach Python to middle school students in 8 sessions of 45 minutes. Tassadit Bouadi (Univ. Rennes 1), Camille Maumet (VisAGeS) and Anne-Cécile Orgerie (Myriads) are coordinating the local version of this program, initiated in Lille. The first session in Rennes is planned for April 2019. The program is currently supported by: Fondation Blaise Pascal, ED MathSTIC, Inria and Fondation Rennes 1.
- Anne-Cécile is a member of the Jury for the Agrégation de Sciences Industrielles, an examination for future secondary teachers of engineering
- Martin Quinson is a trainer for the Agrégation de Sciences Industrielles.
- Martin Quinson is in charge of a M2 lecture on scientific vulgarization at ENS Rennes. The students are asked to come up with new activities (or improve existing ones) on their research field.
- Martin Quinson was a trainer during the SIF summer school on “Scientific Vulgarization in Computer Science”, held in Toulouse, June 6th-8th 2018.

#### 10.3.4. Interventions

- Anne-Cécile Orgerie and Martin Quinson participated in the organization of a day for middle school student to deconstruct computer science-related stereotypes <http://emergences.inria.fr/2018/newsletter-n53/153-informatiennes>.
- Martin Quinson presented various unplugged activities to primary and secondary students over the year.
- Anne-Cécile Orgerie and Martin Quinson hosted 2 secondary students during one week (17th-21th december 2018).

#### 10.3.5. Creation of media or tools for science outreach

- Martin Quinson initiated a new unplugged activity with Philippe Marquet (EPI Dreampal – Lille) and Corentin Ferry (student at ENS Rennes) called M999 to explain the internal behavior of a CPU. This activity is still to be tested live with pupils.
- Martin Quinson helped the M2 students of ENS Rennes to create or improve unplugged activities on their research topics. Activities on Classification, Image Reconstruction, Modeling, Cryptographic Protocols, Map-Reduce or Verifications are still incubating at this point.

## **SPIRALS Project-Team**

### **10.3. Popularization**

#### ***10.3.1. Interventions***

**Lionel Seinturier** participated in October to the Chercheur itinérant event organized by the Inria Lille Nord Europe research center in the context of La fête de la science. Two classrooms (2nde and terminale) have been visited. The theme of the visit was crowdsensing and data gathering from mobile devices.

## **WHISPER Project-Team**

### **10.3. Popularization**

- Julia Lawall: Coordinator of the Outreachy internship program for the Linux kernel, until March 2018. Outreachy provides remote 3-month internships twice a year for women and other underrepresented minorities on open source projects. Julia Lawall also mentored Aishwarya Pant as part of this program.
- Julia Lawall, “Building Stable Trees with Machine Learning”, Open Source Summit North America, August 2018, with Sasha Levin. Open Source Summit Europe, October 2018, with Sasha Levin. Linux Plumbers Conference, kernel summit track, November 2018, with Sasha Levin.
- Julia Lawall, “Coccinelle: 10 Years of Automated Evolution and Bug Finding in the Linux Kernel”, Open Source Summit Europe, October 2018.
- Julia Lawall, “Panel Discussion: Outreachy Kernel Internship Report” (moderator), Open Source Summit Europe, October 2018.
- Julia Lawall, “Panel Discussion: An Exploration of Insights & Issues Related to Mentoring Programs” (participant), Open Source Summit Europe, October 2018.
- Julia Lawall, “Interprocedural Static Analysis Strategies for the Linux Kernel: Detecting SAC Bugs as an Example (Work in Progress)”, Linux Kernel Real Time Summit, October 2018.
- Julia Lawall, “Kernel Panel” (participant), Linux Plumbers Conference, November 2018.

## **WIDE Project-Team**

### **9.3. Popularization**

Pierre-Louis Roman gave an invited talk at the E-novation Convention organized by The Notaries of Brittany, Rennes, 12 November 2018. Title: Blockchains, Distributed Ledgers, and their Utility for Notaries (talk in French).

## **ALPINES Project-Team**

### **10.3. Popularization**

#### ***10.3.1. Internal or external Inria responsibilities***

Laura Grigori is vice-president of the Evaluation Commission of Inria, March 2018 - current.

## AVALON Project-Team

### 10.3. Popularization

#### 10.3.1. Articles and contents

Laurent Lefèvre has been interviewed for the articles:

- "Le Groupe Casino remplace ses radiateurs par des data centers", Le Point Journal (December 23, 2018)
- "Comment cliquer sans trop polluer", Laurent Lefèvre, Le Progrès Journal, November 21, 2018
- "Google utilise-t-il réellement 100% d'énergie verte pour alimenter ses services ?", Libération, July 13, 2018
- "J'ai le (dé) clic écolo pour réduire mon empreinte", Journal La Vie, February 15, 2018

He was interviewed and filmed for "Pollution numérique/Digital pollution", Journal 19/20, France3 National Channel, December 9, 2018.

#### 10.3.2. Education

Yves Caniou is responsible of the LPI Certification at Université Claude Bernard Lyon 1. Further discussions are in progress concerning the proposed tools and redaction of courses/questions.

In the context of the CHEL[s] (Collège des Hautes Etudes Lyon Science[s]) Eddy Caron is mentor for the MedTech project building the start-up VETARIA.

Jean-Patrick Gelas manage and build several modules of education about blockchain technologies for an erasmus+ european project. The BLISS project (Blockchain skills for ICT professionals), aims to improve the skills and competencies of ICT professionals by developing and making available educational resources and materials to address existing occupational needs and mismatches, resulting from the dynamic penetration of blockchain technology across all sectors of the EU economy (including banking, accounting, auditing and government services).

#### 10.3.3. Interventions

Laurent Lefèvre has given several invited talks for :

- "Green-It and Video Games infrastructures - Jeu vidéo et collapsologie #2 : Meetup - Le dématérialisé, ça sauve les pandas ?", Meet-up Game Impact, Paris, November 29, 2018
- "Vers des Data Centers éco-responsables", Data Center World, Paris, November 28, 2018
- "Agile (d'accord !) mais Green (d'abord !)", Agile Tour 2018, Epitech, Bordeaux, November 2-3, 2018
- "Numérique et Environnement", with Françoise Berthoud, Groupe de travail développement durable, Centre Inria Bordeaux, October 19, 2018
- "CES 2018 : l'humain numérique de demain...", Journée Réseau Aramis, University Lyon2, Lyon, May 24, 2018
- "Le futur peut-il être numérique ?", with Françoise Berthoud and Jonathan Schaeffer, Journée Réseau Aramis, University Lyon2, Lyon, May 24, 2018
- "EE@G5K : the story continues...", Grid5000 Scientific Advisory Board, Sophia Antipolis, April 4, 2018
- "Rendre l'informatique plus verte", Conférence de formation des professeurs du secondaire en science informatique, Inria Montbonnot, March 21, 2018
- "WG5 : Energy efficiency final results", Network for Sustainable Computing (Nesus), COST European Action IC1305, Final Action Meeting, with Ariel Oleksiak, Madrid, Spain, March 15-16, 2018
- "CES 2018 - so little Green", Rencontres Ecoinfo, Lyon, January 30, 2018

## **DATAMOVE Project-Team**

### **9.3. Popularization**

#### **9.3.1. Interventions**

- Talk *Des besoins en calcul de plus en plus performant* for the conference cycle "Accompagnement de l'informatique au lycée en 2018".

## **HIEPACS Project-Team**

### **9.3. Popularization**

#### ***9.3.1. Interventions***

During the 10th anniversary of the Inria Bordeaux Sud-Ouest centre and the open day, scientific popularisation materials of the HiePACS team's research work were presented to the attendees.



## KERDATA Project-Team

### 8.3. Popularization

#### 8.3.1. Internal or external Inria responsibilities

Gabriel Antoniu:

**Big Data Value Association:** Inria representative in the working group on HPC-Big Data convergence since 2018.

**ETP4HPC:** Inria representative in the working group on HPC-Big Data convergence since 2018.

Luc Bougé: Co-ordinator between ENS Rennes and the Inria Research Center and the IRISA laboratory.

Alexandru Costan:

- In charge of internships at the Computer Science Department of INSA Rennes.
- In charge of the organization of the IRISA D1 Department Seminars.

#### 8.3.2. Articles and contents

**HDF5 Blog:** Invited blog article explaining how Damaris can support HDF5-based storage.

## POLARIS Project-Team

### 10.3. Popularization

#### 10.3.1. Internal or external Inria responsibilities

- Jean-Marc Vincent is responsible for the mediation in the Inria Rhône-Alpes center in relation with the Rectorat de l'Académie de Grenoble (organisation of ISN conferences, Class'Code for digital referents)
- Jean-Marc Vincent coordinates the group "Info sans ordi" (computer science without computer)—in which Florence Perronnin participates

#### 10.3.2. Articles and contents

Jean-Marc Vincent has coordinated and participated to the redaction of the 96 pages special issue of *Tangente* on *Informatique Débranchée*: [http://www.infinimath.com/librairie/descriptif\\_livre.php?type=magazines&theme=7&soustheme=26&ref=2568#article](http://www.infinimath.com/librairie/descriptif_livre.php?type=magazines&theme=7&soustheme=26&ref=2568#article).

#### 10.3.3. Education

- Highschool Professors: Vincent Danjean is responsible of the University Dept. for Highschool Professors Training in Computer Science (in relation with the rectorat).
- Highschool Professors: Jean-Marc Vincent is member of the steering committee for the training of Highschool Professors towards the new option NSI (Numérique et Sciences Informatiques) for Baccalauréat and participated in the creation of a inter-university diploma in CS.
- Arnaud Legrand gave a lecture on "Reproducible Research" at CIRM in May 2018 to the computer science teachers of classes préparatoires.
- Bruno Gaujal: Course on game theory at the 7 laux of ENS Lyon students
- Bruno Gaujal: Course on dynamique optimization for high school teachers.
- Florence Perronnin: creation of an option in Licence on "Sciences Informatiques et Médiation" (CS and mediation)

#### 10.3.4. Interventions

- Arnaud Legrand made a podcast with Interstice on reproducible research <https://interstices.info/la-recherche-reproductible-pour-une-science-transparente/>
- Participation to mediation events of the center (Fête de la science, journées math C2+, journée login)
- Participation to mediation actions Inria/Irem/Maison for Science (Jean-Marc Vincent)

## **ROMA Project-Team**

### **10.3. Popularization**

#### ***10.3.1. Interventions***

- Frédéric Vivien took part in the committee which listened to the presentations of high-school students in the scope of a “MATH.en.JEANS” action (December 2018).
- Yves Robert gave the honorary speech for the Honoris Causa Diploma of ENS Lyon awarded to Marc Snir on November 9, 2018.

## **STORM Project-Team**

### **9.3. Popularization**

#### **9.3.1. Interventions**

- Olivier Aumage, Emmanuelle Saillard, Denis Barthou: Welcoming of the general public for the open days at the Inria research center, October 2018.
- Emmanuelle Saillard, Corentin Salingue: Fête de la Science, Inria, October 2018.
- Emmanuelle Saillard, Corentin Salingue: Semaine des maths, Lycée Saint Genès, March 2018.
- Corentin Salingue: Printemps de la mixité, Inria, April 2018.
- Corentin Salingue: Welcoming of schoolchildren: internship of Matthieu Vigier-Lafosse, January 2018.

#### **9.3.2. Internal action**

- Emmanuelle Saillard: DevDays, October 2018
- Denis Barthou: Unithé ou café, June 2018

## TADAAM Project-Team

### 10.3. Popularization

#### 10.3.1. Internal or external Inria responsibilities

Brice GOGLIN is in charge of the diffusion of the scientific culture for the Inria Research Centre of Bordeaux. He organized several popularization activities involving colleagues.

Guillaume AUPY co-organized (with Marthe Bonamy) a 2-day visit of Inria & Labri for undergrad students from ENS Lyon.

#### 10.3.2. Education

- Brice GOGLIN was involved in the MOOC *Informatique et Création Numérique* which focuses at bringing basics about computer science to high-school teachers. He answered numerous questions on the forum. More than 19 000 people registered to the course, and more than 1 500 successfully finished it.
- Brice GOGLIN was involved in the building of the MOOC *Sciences Numériques et Technologie* which focus at bringing basics about computer science to high-school teachers.
- François PELLEGRINI, created a set of ten animated short videos on the digital revolution and its consequences, for high-school pupils and freshman students (Pix/C2i), in collaboration with the services of Université de Bordeaux.

#### 10.3.3. Interventions

- Valentin HONORÉ and Brice GOGLIN went to the St Genes middle school in Bordeaux in March for *Semaine des Maths* to give hands-on sessions about basics of algorithmics and computer science.
- TADAAM presented its research to the general public during the 10th anniversary of the research centre on September 27th.
- Emmanuel JEANNOT was the roundtable presenter of the topic HPC and scientific computing at the Inria Bordeaux 10 years event on September 27th.
- Valentin HONORÉ and Brice GOGLIN presented TADAAM research during the research centre open day on October 13th.
- Guillaume AUPY, Valentin HONORÉ, Nicolas VIDAL and Brice GOGLIN gave seminars and hands-on session about computer science to schools attending *Fete de la Science* in October.
- Guillaume AUPY went to the Sainte-Foy-La-Grande middle school in the context of Maths-en-Jeans to talk about finding a way to share messages in class and how it relates to the internet.
- Brice GOGLIN introduced research, research carriers, high performance computing and data centers to middle-school interns on December 17th.
- François PELLEGRINI delivered a conference entitled “*Tous pirates ?*”, at the National Theater of Bordeaux-Aquitaine (TNBA), in relation with the play of same name created by the Traverse and OS’O artist collectives.
- François PELLEGRINI participated in a conference and roundtable “*Ingénieurs, éthique et valeurs face à l’industrie 4.0*” organized by Fondation Anthony Mainguené at École Nationale Supérieure des Arts et Métiers.
- François PELLEGRINI was member of the jury during a fake trial of a self-driving artificial intelligence (*Carambolage du siècle*) at the Appeal Court of Paris, during the *Nuit du droit*.
- François PELLEGRINI delivered a conference on the digital revolution at Le Bar Commun during the *Week of digital Freedoms*.

## **DIVERSE Project-Team**

### **9.3. Popularization**

- Exhibitions to Open Cloud Forum, Paris 21/03/2018
- Exhibitions to EclipsCon Toulouse 13-14/04 2018
- Exhibitions to Paris Open Source Submit 05-06/12/2018

#### ***9.3.1. Internal or external Inria responsibilities***

- Olivier Barais was in charge of the recruitment committee for the position of associate professor at the University of Rennes 1 in cyber security.
- Olivier Barais was a member the recruitment committee for the position of associate professor at the University of Nantes in Software Engineering.
- Olivier Barais was a member of the recruitment committee for the position of associate professor at the University of Bordeaux in Software Engineering.

#### ***9.3.2. Interventions***

- Exhibitions to the Lycée Sévigné to present career paths in Research
- Exhibitions to the "forum des métiers du collège Bourguevreuil"

#### ***9.3.3. Internal action***

- Olivier Barais provide one day course on Modern Web Engineering to SED Engineer.

**EASE Team (section vide)**

## FOCUS Project-Team

### 8.3. Popularization

#### 8.3.1. Education

Michael Lodi and Simone Martini have carried out extended work of scientific popularization, including the following.

- They are members of the technical committee of Olimpiadi del Problem Solving (at Italian Ministry of Education), <http://www.olimpiadiproblemsolving.com>; this involves preparation of material and supervision and jury during the finals.
- S. Martini has given various talks at institutes and workshops on the teaching methods for Computer Science, including a talk on "Abbiamo davvero bisogno del pensiero computazionale?", at the conference "I bit rotolano dovunque", Università di Roma Tor Vergata, May 2018.

#### 8.3.2. Interventions

Daniel Hirschhoff was part of the organising committee for the "École Jeunes Chercheurs en Programmation", 25-29 June 2018, in Lyon.

#### 8.3.3. Other duties

S. Martini has been Head of the Department of Computer Science and Engineering, University of Bologna, until May 2018.

M. Gabrielli is Deputy Head of the Department of Computer Science and Engineering, University of Bologna, since May 2018.

G. Zavattaro is coordinator of undergraduate studies at the Department of Computer Science and Engineering, University of Bologna (Informatica per il Management).



## INDES Project-Team

### 8.3. Popularization

#### 8.3.1. Internal or external Inria responsibilities

Tamara Rezk is member of the editorial board of Interstices and Blog Binaire Le Monde

#### 8.3.2. Articles and contents

Tamara Rezk published the article "Est-ce que mon programme est bien protégé ?" in blog binaire Le Monde in February 2018. The article with some minor modifications was retaken by Interstices and published in December 2018. <http://binaire.blog.lemonde.fr/2018/02/09/est-ce-que-mon-programme-est-bien-protége-contre-les-cyberattaques/>.

Nataliia Bielova was interviewed by Sophie Casals, "Comment mieux protéger sa vie privée en naviguant sur internet? Les conseils d'une spécialiste" in Nice Matin, June 2018. <https://www.nicematin.com/faits-de-societe/comment-mieux-protoger-sa-vie-privee-en-naviguant-sur-internet-les-conseils-dune-specialiste-239166>

#### 8.3.3. Education

##### 8.3.3.1. Skini and the Fabrique à Musique

Skini is currently used with a class of secondary school in order to create a musical show in collaboration with the Conservatory of Nice and the CIRM (National Center for Music Creation). A group of 25 children, 12 year old, are creating together a story, and use the distributed sequencer of Skini to design basic musical patterns using tablets. The next step is to organize with them the orchestration of the piece which is coded in HipHop. The activation of the piece will be done in real time by the children using the tablet and the Skini platform. This project is funded by SACEM (Société des auteurs, compositeurs et éditeurs de musique). The project will end in May 2019 with a public concert in the Conservatory of Nice.

##### 8.3.3.2. MOOC Protection de la vie privée dans le monde numérique

Nataliia Bielova has participated to the MOOC "Protection de la vie privée dans le monde numérique" (Session 2) that was shooted in July 2018 under the guidance of Inria Learning Lab and was open to general public between 5 November 2018 and 7 January 2019, <https://www.fun-mooc.fr/courses/course-v1:inria+41015+session02/about>.

#### 8.3.4. Interventions

- Nataliia Bielova held a stand at Portes ouvertes (Fête de la science) of Inria Sophia Antipolis explaining how to protect privacy on the Web, October 2018.
- Ilaria Castellani and Héloïse Maurel held the stand "Science au féminin" together with Carine Antico from CNRS at the Fête de la Science in Antibes Juan-les-Pins, October 2018.

#### 8.3.5. Internal action

- Nataliia Bielova gave a talk at the PhD seminar special edition on "Tracking technologies and protection of your privacy on the Web", March 2018.
- Nataliia Bielova gave a talk at the Data Science meetup Nice on "How companies track you as you browse the web and how to protect yourself?", <https://www.meetup.com/Data-Science-Meetup-Nice-Sophia-Antipolis/events/255546602/>, October 2018.

## PHOENIX-POST Team

### 8.3. Popularization

#### 8.3.1. Articles and contents

- Mazon, C., Fage, C. et Sauzéon, H. (2017). “Impacts des technologies numériques pour favoriser l’inclusion scolaire d’élèves avec Trouble du Spectre Autistique”. In *Les Cahiers de l’Actif* (a journal for professionals working in caregiving and assistance).

#### 8.3.2. Interventions

- Bernard Serpette, Mar 12, 2018: participating to the Week of math at the primary school St-Genes in Bordeaux: initiating 1st and 2nd grade pupils to computational thinking via problem-solving games
- Cécile Mazon, Sept 27, 2018: participating to the Open days at Inria Bordeaux: presenting to the general public the scientific projects about technology assistance for young persons with ASD.
- Cécile Mazon, Jan 18-19, 2018: Poster for the symposium UB-CNRS - “Sensibilisation et regards croisés autour du handicap”, Pôle juridique, Université de Bordeaux, France
- Cécile Mazon, Jan 15-19, 2018: managing the internship of a high-school pupil (Roxane Allouche) at Inria Bordeaux

## RMOD Project-Team

### 10.3. Popularization

#### 10.3.1. Articles and contents

- Stéphane Ducasse and Guillermo Polito. Stéphane Ducasse (Ed.). *Physche: A Little Scheme in Pharo*, p. 50, Square Bracket Associates, 2018. [20]
- Stéphane Ducasse. Stéphane Ducasse (Ed.). *A Simple Reflective Object Kernel*, p. 40, Square Bracket Associates, 2018. [19]

#### 10.3.2. Education

- A MOOC for Pharo is online (Stéphane Ducasse).  
<http://mooc.pharo.org>

#### 10.3.3. Interventions

- Multiple public Pharo Sprints in Lille.  
<https://association.pharo.org/events>
- IoT Hackathon. One Day Event in Cologne, Germany. Using PharoIoT  
<http://zweidenker.de/de/iot-hackathon-2018>  
Video: <https://www.youtube.com/watch?v=dII9FAatKyw>
- RMOD co-organized and participated at ESUG 2018.  
<http://www.esug.org/wiki/pier/Conferences/2018>
  - Presentation about PharoIoT.  
<https://www.slideshare.net/MarcusDenker/pharo-iot>

## STACK Team

### 10.3. Popularization

- J.-M. Menaud, Online publication <http://www.lemondeinformatique.fr>: *L'IMT Atlantique veut réduire le coût des calculs lourds.*
- J.-M. Menaud, Online publication <http://www.mtom-mag.com>: *Le projet HYDDA, développer une plateforme innovante, associant Cloud et HPC.*
- J.-M. Menaud, Online publication <http://www.agence-api.fr>: *L'Institut Mines-Telecom Atlantique monte une plateforme cloud et HPC.*

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

## COATI Project-Team

### 9.3. Popularization

#### 9.3.1. Internal or external Inria responsibilities

- Frédéric Havet :  
Vice-president and member of the scientific committee of the association Institut Esope 21 (<http://www.esope21.eu>).
- Nicolas Nisse:  
Membre de Mastic (Médiation et Animation scientifiques Inria Sophia Antipolis - Méditerranée).

#### 9.3.2. Education

- Frédéric Havet, Joanna Moulierac and Nicolas Nisse : Participation to Galejade projet.  
Design of pedagogical resources introducing graphs and algorithms to primary school students.  
Training of primary school teachers, ESPE April 9-10 2018.

#### 9.3.3. Interventions

- Fête de la Science (Frédéric Havet, Nicolas Nisse, Fionn Mc Inerney, Ali Al Zoobi)  
Journée portes ouvertes, Inria Sophia Antipolis, Sunday October 7, 2018.  
Palais des Congrès de Juan-Les-Pins, October 20-21, 2018.  
Collège de Vinon-sur-Verdon (83), October 9-12, 2018.
- Frédéric Havet, Joanna Moulierac, and Nicolas Nisse  
Participation to the supervision of the internships of 12 pupils of 3eme, December 17-21, 2018.
- Frédéric Havet  
*L'élégance des Mathématiques*. Conference at Lycée Janetti, St Maximin, February 16, 2018. Audience: 3 classes (1e S and ES).  
*La magie des graphes et du binaire*. Conference at collège Alphonse Daudet, Nice, April 17, 2018. Audience: 2 classes of 4e and 1 of 6e.  
*L'élégance des mathématiques*. General audience conference, Rians, Var, France, April 28, 2018.
- Nicolas Nisse  
Training and awareness of school teachers (Cycle 2, CP-CE2) to scientific mediation. Le Cannet, November 21 and Mandelieu, November 28, 2018.  
Training and awareness of future teachers to scientific mediation, Ecole Supérieure du Professorat et de l'Education (ESPE, ex IUFM) of Académie de Nice. March 19-20 and April 9-10, 2018.  
*Liens entre médiation numérique et recherche*, Maison méditerranéenne des Sciences de l'homme (MMSH), Aix en Provence, March 14, 2018.  
Mediation for the Master en science de l'éducation, Nice, October 18, 2018.
- Fionn Mc Inerney :  
Presentation at Collège Victor Hugo, Nevers, France, March 23, 2018.  
Participation in the day "*L'informatique, c'est pas génétique, filles ou garçons, les clics sont identiques!*", Lycée Raoul Follereau, Nevers, France, March 22, 2018.  
Presentation at Ecole Primaire Romain Rolland, Varennes-Vauzelles, France, March 21, 2018.  
Supervised internship of a school girl in 2nd, Inria Sophia-Antipolis - Méditerranée, France, June 18-22, 2018.
- Michel Syska :  
Organisation and supervision of the code competition "*La nuit de l'info*", December 6-7, 2018.

## DANTE Project-Team

### 10.3. Popularization

#### 10.3.1. Internal or external Inria responsibilities

Isabelle Guérin Lassous is the managing director of the Foundation Blaise Pascal. The objectives of the foundation are to promote mathematics and computer science and to attract young people to scientific fields like computer science and mathematics. The actions of the FBP focus on:

- a support to actors that promote mathematics and computer science via allocated funding based on call of proposals;
- a structuring of actors to increase the impacts of their actions, to coordinate the efforts and to share experiences;
- a development of innovative experiences via summer camps and clubs of mathematics and computer science.

#### 10.3.2. Articles and contents

- Éric Guichard wrote an article with Nicolas Schabanel in newspaper *Libération*, September 10, 2018, p. 24: « Copyright numérique: stériliser pour mieux tuer », [https://www.liberation.fr/debats/2018/09/09/copyright-numerique-steriliser-pour-mieux-tuer\\_1677568](https://www.liberation.fr/debats/2018/09/09/copyright-numerique-steriliser-pour-mieux-tuer_1677568).
- Éric Guichard gave an interview in newspaper *O Globo* (Brazil), Jan 1<sup>st</sup>, 2018.

#### 10.3.3. Interventions

Paulo Gonçalves and Eric Guichard animated a citizen meeting on Artificial Intelligence and Social impacts. November 2018. Orliénas. <https://www.vepm.net/2018/10/26/cafe-citoyen-orlienas-9-novembre-2018-lintelligence-artificielle/>

## DIANA Project-Team

### 9.3. Popularization

#### 9.3.1. Interventions

Chadi Barakat keeps participating to the organization of the Mediterranean Students Days @ Campus SophiaTech. The sixth edition took place on Feb 12 - 14, 2018. All details on this event can be found at <http://univ-cotedazur.fr/events/meddays>. He also participated to the organization of the French-American Doctoral Exchange Seminar (FADEx) 2018 held in June 2018 on the three French sites Sophia Antipolis, Grenoble, and Paris.

Damien Saucez is part of the MASTIC (<https://project.inria.fr/mastic>) group at Inria. MASTIC groups all the activities for scientific dissemination for Inria Sophia Antipolis. Within the team, we gave a 3h game-based class to 12 collège interns that made an internship at Inria in December to introduce them to the fundamental algorithms used in the Internet (shortest-path, longest prefix matching, distance-vector, AIMD). Damien Saucez was involved in the organization of the “Journée portes-ouvertes” of the Inria Sophia Antipolis premises. Specifically, DIANA presented R2LAB and Electrosmart.



## **DIONYSOS Project-Team**

### **10.3. Popularization**

Yann Busnel is a member of Development Council of Computer Sciences Master at Université de Nantes (2017–\*).

#### ***10.3.1. Internal or external Inria responsibilities***

- Bruno Tuffin was a member of Inria-MITACS selection committee

#### ***10.3.2. Interventions***

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

## **DYOGENE Project-Team**

### **9.3. Popularization**

#### ***9.3.1. Internal or external Inria responsibilities***

- B. Błaszczyszyn is an ENS adjunct professor since September 2018.
- B. Błaszczyszyn and A. Busic are members of the ENS Computer Science Department Board (Conseil du Laboratoire).
- A. Busic is member of the Committee for the Technological Development, Inria Paris

#### ***9.3.2. Education***

C. Fricker: member of the jury of *Agrégation de Mathématiques*.

## **EVA Project-Team**

### **10.3. Popularization**

#### ***10.3.1. Interventions***

- Keoma Brun-Laguna
  - “Solsystem: IoT Industriel et déploiement en milieux réels” démo at RII meeting (“Mobilités et environnements, 20 Novembre 2018, Station F, Paris”)
- **Thomas Watteyne**
  - The Inria-Paris OpenTestbed (you might already have noticed. . .). Inria Seminar, Paris, 2 October 2018.
  - “Le tour du monde en 1,000 capteurs!”. Inria Rocquencourt seminar series. 6 June 2018.
  - Construire son Réseau IoT en 10min. Conférence d’ouverture de la semaine des Mathématiques. Inria-Paris, Paris, France, 12 March 2018.

#### ***10.3.2. Dans les Medias***

- **Thomas Watteyne**
  - Edge computing: on vous dit tout sur les technos qui mettent le cloud dans votre poche, 01net, 10 September 2018.
  - Qu’est-ce que l’IoT? Boston Consultancy Group podcast, 9 September 2018.
  - Retour Semaine des maths 2018 : conference de Thomas Watteyne à l’Inria, Academie de Paris, 15 March 2018.

#### ***10.3.3. Creation of media or tools for science outreach***

A video concerning the research on protocols for VANETs of Mohamed Hadded has been done by Inria.

## **FUN Project-Team**

### **10.3. Popularization**

- Matthieu Berthome, Jad Nassar, Ibrahim Amadou, Antonio Costanzo and Antoine Gallais gave some talks in high schools for the “Fête de la Science” in October 2018
- Nathalie gave an interview for France Info on connected objects

## **GANG Project-Team**

### **10.3. Popularization**

#### ***10.3.1. Internal or external Inria responsibilities***

- Laurent Viennot was “commissaire scientifique” for the permanent exposition on “Informatique et sciences du numérique” at Palais de la découverte in Paris (opened in March 2018).

#### ***10.3.2. Education***

- Carole Delporte was president of a jury of baccalaureat.

**INFINE-POST Team (section vide)**

## Neo Project-Team

### 10.3. Popularization

#### 10.3.1. Internal or external Inria responsibilities

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

#### 10.3.2. Interventions

On October 12th, in the framework of *La Fête de la Science*, M. Drevet participated in a mediation activity at *Espace de l'Art Concret* in Mouans-Sartoux. It was a mix between art and sciences (maths and physics). The topic was randomness and the targeted public was primary school students, from two different classes (one in the morning and one in the afternoon). Activities involved loaded dices, Galton Board, double pendulum, and some online program (<http://weavesilk.com/>, pupils really liked this). Each game was presented and students would figure out where the randomness comes from, and play/experiment by themselves (30 min per group).

## POEMS-POST Team

### 10.3. Popularization

#### 10.3.1. Internal or external Inria responsibilities

- M. Kachanovska is a member of the *comité scientifique* of Inria-Saclay.
- A.-S. Bonnet-Ben Dhia is a member of the *bureau du comité des équipes-projets* (BCEP).

#### 10.3.2. Interventions

- POEMS has been involved in the exhibition “*Rencontre diffractante*”, which has been presented successively at ENSTA (*from December 2017 to February 2018*) and at Inria (*in April and May 2018*). The inspiring material of this exhibition was made up of numerical simulations of various diffraction problems studied within by POEMS team. They served as a basis for the creation of artistic objects made by several classes of the Ecole Boule. *Curators of the exhibition : Jérôme Perez, ENSTA, and Virginie Gannac, doctor in art, design and applied arts from Université Paris I Sorbonne, Ecole Boule de Paris*
- POEMS has been involved in the event “*Fête de la science*” at ENSTA-ParisTech in October 2018.
- E. Bécache presented a talk entitled “*Promenade mathématique*” during the day “*Filles et mathématiques, une équation lumineuse*” (March 27, 2018 at Ecole Polytechnique, Palaiseau) and during the awards ceremony of the National Olympiad of Mathematics (May 30, 2018 at Créteil).
- E. Bécache has been involved in a meeting of young female mathematics, organized on November 17-18, 2018 at ENSTA ParisTech.



## **RESIST Team**

### **10.3. Popularization**

#### ***10.3.1. Interventions***

- Débats Grenats, February 2018, Metz, France. Round table on the theme of security over its different forms, including risks induced by cyber-security. Rémi Badonnel.
- Libre sur la place, Nancy. Plongée au cœur des communautés De Debian à l'Open Core. Lucas Nussbaum.

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