



RESEARCH CENTER  
**Sophia Antipolis - Méditerranée**

FIELD

Activity Report 2016

# Section Popularization

Edition: 2017-08-25



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## ABS Project-Team

### 8.3. Popularization

#### 8.3.1. Dissemination of scientific culture

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

##### 8.3.1.1. Publications and ressources.

- 2016. *Graphes et Algorithmes – Jeux grandeur nature*. Dorian Mazauric, en collaboration avec Laurent Giauffret, Direction des Services Départementaux de l'Éducation Nationale (DSDEN) des Alpes-Maritimes. [<https://hal.inria.fr/hal-01366804>]
- 2016. *Graphes et Algorithmes - Diffusion de l'information scientifique*. Dorian Mazauric. [<https://hal.inria.fr/hal-01383665>]
- 2016. *Information et communication : la Théorie des Graphes*. Jean-Claude Bermond et Dorian Mazauric. Fondation la main à la pâte. To appear.

##### 8.3.1.2. Fête de la Science en PACA.

- 22-23/10/2016. Village des sciences et de l'innovation au Palais des Congrès d'Antibes Juan-les-Pins. Fête de la Science 2016. a) *La magie des graphes et du binaire*. b) *Algorithmes grandeur nature*. c) *Pas besoin de réfléchir, les ordinateurs calculent tellement vite ? Théorie des graphes et algorithmique pour les réseaux*. [<https://www.inria.fr/centre/sophia/agenda/fete-de-la-science-2016>]
- 10-12/10/2016. Fête de la Science au collège Yves Montand, Vinon-sur-Verdon. Institut Esope 21. a) *La magie des graphes et du binaire*. b) *Algorithmes grandeur nature*. c) *Pas besoin de réfléchir, les ordinateurs calculent tellement vite ? Théorie des graphes et algorithmique pour les réseaux*. [<https://www.inria.fr/centre/sophia/agenda/fete-de-la-science-2016>]

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

- 15-16/06/2016. Activité pour une quarantaine de lycéens des Alpes-Maritimes (accueillis à Inria Sophia Antipolis - Méditerranée durant 4 jours). *Algorithmes grandeur nature pour le calcul d'un arbre couvrant de poids minimum (application pour la conception d'un réseau électrique)*. Présentation aux lycéens du stage. *Pas besoin de réfléchir, les ordinateurs calculent tellement vite ? Théorie des graphes et algorithmique pour les réseaux*. [<http://www.inria.fr/centre/sophia/actualites/mathc2-40-lyceens-des-alpes-maritimes-en-immersion-au-coeur-d-un-centre-de-recherche>] [<https://youtu.be/rLj5H1Gu1uI>]

##### 8.3.1.4. Interventions à l'ÉSPÉ de l'Académie de Nice.

- 8-15/03/2016. Organisation d'un atelier à l'École Supérieure du Professorat et de l'Éducation (ÉSPÉ) de l'Académie de Nice (site de Stéphane Liégeard) en collaboration avec l'Inspection Académique (avec Laurent Giauffret). Animation, avec des étudiants de l'ÉSPÉ, pour 360 élèves de CM1 et de CM2. *La magie des graphes et du binaire, algorithmes et jeux (réseaux de tri)*. [[http://www.inria.fr/actualite/agenda/semaine-des-mathematiques-au-mois-de-mars?utm\\_content=buffer4b539&utm\\_medium=social&utm\\_source=twitter.com&utm\\_campaign=buffer](http://www.inria.fr/actualite/agenda/semaine-des-mathematiques-au-mois-de-mars?utm_content=buffer4b539&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer)] [<http://www2.ac-nice.fr/DSDEN06/cid101665/des-chercheurs-de-retour-a-l-ecole.html>]

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

- 15-19/09/2016. Préparation avec Laurent Giauffret d'une formation pour 17 enseignants de cycle 3 (cours moyen d'enseignement élémentaire). a) *Présentation d'Inria et du dispositif ASTEP*. b) *Graphes et Algorithmes : théorie et mise en pratique avec des jeux*. c) *Présentation de Thymio et mise en avant des possibilités offertes*. d) *Présentation du logiciel Scratch par le Maître Assistant Informatique de circonscription*.

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

- 26/01/2016. Conférence au lycée Amiral de Grasse (classes de seconde). *a) Pas besoin de réfléchir, les ordinateurs calculent tellement vite ? Théorie des graphes et algorithmique pour les réseaux. b) La magie des graphes et du binaire.*
- 21/01/2016. Conférence au lycée Amiral de Grasse (classes de terminale). *a) Pas besoin de réfléchir, les ordinateurs calculent tellement vite ? Théorie des graphes et algorithmique pour les réseaux. b) La magie des graphes et du binaire.*

8.3.1.7. *Conférences dans des collèges des Alpes-Maritimes.*

- 05/12/2016. Conférence au collège Jules Verne de Cagnes-sur-Mer (deux classe de sixième) (avec Rémi Watrigant). *La magie des graphes et du binaire.*

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

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

8.3.1.9. *Autres présentations.*

- 05/01/2016. Présentation à des lycéens d'Australie et de Nouvelle-Zélande (classes de secondes) à Inria Sophia Antipolis - Méditerranée. *La magie des graphes et du binaire.*

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

## **AOSTE Project-Team**

### **9.3. Popularization**

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

## **APICS Project-Team**

### **8.3. Popularization**

- M. Olivi is responsible for Scientific Mediation and president of the Committee MASTIC (Commission d'Animation et de Médiation Scientifique) <https://project.inria.fr/mastic/>. She animated two half-day workshop sessions "activités débranchées" at "l'ESPE de Nice" for primary school students (March 08 & 15), 200 students each session). She participates to the event "la fête de la science" in Nice (October 13) for scholars and in Antibes (October 22 & 23, 6200 people). She gave a talk "180'" at the "Journées Scientifiques Inria" in Rennes.
- K. Mavreas and C. Papageorgakis actively participated to events organized by the Committee MASTIC (Fête de la Science, ...).



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

## **ASCLEPIOS Project-Team**

### **9.3. Popularization**

- Nina Miolane participated to the following popularization events:
  - Speaker at Unesco France's Ceremony for 70th Anniversary.
  - Speaker at the Women Forum Global Meeting 2016. How to bring more women in the sci-tech workforce?
  - Speaker at the L'Oreal-Unesco Prizes Ceremony 2016.
  - Journal regional de France 3 Azur (Oct. 31 2016)
  - Invited on "Le Club de la Tete au Carre". France Inter (National Radio), Oct. 14 2016.
- M. Sermesant gave general audience lectures in regional high schools, during the Science Festival in Juan-les-Pins Congress center (Oct 23), and during the Inria-Industry meeting (Dec 1).

## **ATHENA Project-Team**

### **10.3. Popularization**

During the “Semaine du Cerveau” (Brain Awareness week) in March 2016, Maureen Clerc organized a “Cafe Technologique” about Brain-Computer Interfaces, in which over 100 attendees could see a live demo of the P300 speller with both clinical-grade and consumer-grade devices.

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

## AYIN Team

### 8.3. Popularization

- Josiane Zerubia presented Inria and Inria-SAM to Masters, PhDs and Post-docs of the following foreign universities during 2016: University of Genoa, West University of Timisoara, Georgia Tech, Arizona State University, University of Illinois at Urbana Champaign, University of Cambridge, University of Bristol.
- Josiane Zerubia was interviewed in August with two other French women scientists working in remote sensing by a journalist for Earthzine (webzine supported by IEEE and NASA) see <https://earthzine.org/2016/10/13/the-three-musketeers-making-an-impact-in-french-remote-sensing-and-breaking-down-gender-barriers/>
- In September, Josiane Zerubia actively participated to a debate about Women in Signal Processing at the IEEE International Conference ICIP'16 (<http://2016.ieeeicip.org/>) in Phoenix, USA
- Josiane Zerubia, with Gabriele Moser and Sebastiano Serpico from University of Genoa, wrote in December an article about natural disaster monitoring for ERCIM News, see <http://ercim-news.ercim.eu/en108/special/natural-disaster-monitoring-multi-source-image-analysis-with-hierarchical-markov-models>.

## **BIOCORE Project-Team**

### **10.3. Popularization**

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

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

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

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

## **BIOVISION Team**

### **8.3. Popularization**

- Rencontre avec le public à la suite de la projection du film "La nuit qu'on suppose" de Benjamin d'Aoust, Médiathèque d'Antibes, 16 Janvier 2016.
- Bruno Cessac. Cafe In Sophia. La rétine, fonctionnement et thérapie, 28 Janvier 2016.

## CAMIN Team

### 10.3. Popularization

- Large cover in general media (radio, TV, newspapers) of Cyathlon project <http://freewheels.inria.fr/>
- Christine Azevedo presented Cyathlon project at DIRCOM Inria, Rocquencourt, in the context of Handicap national week.
- Christine Azevedo presented Freewheels experience at Carrefour du Pôle EUROBIOMED (Marseille).
- Christine Azevedo presented the job of researcher in secondary school Collège Léon Cordas (Montpellier)

## **CASTOR Project-Team**

### **7.3. Popularization**

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



## COATI Project-Team

### 10.3. Popularization

Guillaume Ducoffe:

Fête de la Science: presented the stand "Introduction à l'algorithmique" at Valrose, Univ. Nice Sophia Antipolis, France, October 12nd, 2016.

Frédéric Havet:

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

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

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

Vendredis de la Science: conducted scientific workshops for school children (6-11 year old) on friday afternoon. Weekly in Januray-February and May-June 2016.

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

Nicolas Nisse:

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

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

Steven Roumajon:

Fête de la Science: presented the stand "Introduction à l'algorithmique" at Valrose, Univ. Nice Sophia Antipolis, France, October 12nd, 2016.

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

**DATASHAPE Team (section vide)**

## DIANA Project-Team

### 9.3. Popularization

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

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

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

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

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

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

## **ECUADOR Project-Team**

### **9.3. Popularization**

Laurent Hascoët wrote an article about AD for the blog “binaire”, hosted by “Le Monde”. May 9.

## FOCUS Project-Team

### 9.3. Popularization

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

- member of the technical committee of Olimpiadi del Problem Solving (at Italian Ministry of Education), <http://www.olimpiadiproblemsolving.com>;
- invited talks (“Il pensiero computazionale spiegato ai manager”, given at ‘Il codice del futuro’, Teatro anatomico dell’Archiginnasio, Bologna, May 2016, and “Pensare computazionale: una quarta competenza dopo scrivere, leggere e far di conto”, given at ‘Trasformazioni sociali e trasmissione delle conoscenze nell’Università italiana’, Bologna, November 2016);
- 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

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

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

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

## **GRAPHDECO Project-Team**

### **9.3. Popularization**

George Koulieris described his research in an interview for the Inria@SiliconValley Newsletter <sup>0</sup>.

Adrien Bousseau described his research in two interviews for the Inria website <sup>00</sup>.

Adrien Bousseau gave demos of his tool to help people practice drawing-by-observation techniques during the “Rencontres du numérique” organized by ANR (Nov. 16th) and during the “Rencontres Inria-Industrie” on e-learning (Dec. 1st).

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<sup>0</sup><https://project.inria.fr/siliconvalley/2016/06/21/post-doc-george-koulieris/>

<sup>0</sup><https://www.inria.fr/en/centre/sophia/news/adrien-bousseau-receives-an-erc-starting-grant>

<sup>0</sup><https://www.inria.fr/centre/sophia/actualites/adrien-bousseau-laureat-du-prix-jeune-chercheur>

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



## **HEPHAISTOS Project-Team**

### **10.3. Popularization**

- J-P. Merlet has participated to a meeting “Future of robotics” organized by the Académie of Sciences. As a member of Executive Council of IFToMM he has contributed to the organization of the third Students International Olympiad on Mechanism and Machine Science held in Madrid. He is also a regular reviewer for Interstices and a contributor [18]
- Y.Papegay is actively participating to the Math.en.Jeans initiative for Mathematics teaching for undergraduate students. He has organized and animated summer schools in experimental mathematics and computer sciences. A three weeks session has been held at the University of Western Australia in Perth in July and three other one week sessions have been held in Oxford in June and August gathering around 50 high-school students - most of them were awardees in Mathematics Olympiads.

## INDES Project-Team

### 7.3. Popularization

- Web users are continuously tracked as they browse the Web. One of the techniques for tracking is device fingerprinting that distinguishes users based on their Web browser and operating system properties. Together with Inria Celtique team, we have proposed solutions to detect and prevent device fingerprinting via runtime monitoring of JavaScript programs. We have published an article in a general public ERCIM News magazine <sup>0</sup> about prevention of device fingerprinting via program monitoring [10].
- We have implemented the *WebStats* website <sup>0</sup>. This website collects, on a monthly basis, a number of JavaScript and security statistics about top 10 000 webpages: the usage of popular JavaScript libraries; the usage of different language constructs in these libraries; use of Content Security Policies and secure cookies, etc. The *WebStats* website can be used by programmers (to understand which JavaScript libraries are more popular), researchers in programming languages (when designing a subset of JavaScript, to safely exclude the language constructs that are rarely used according to *WebStats*), and researchers in privacy (to analyse which tracking libraries are the most prevalent).

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<sup>0</sup><http://ercim-news.ercim.eu/en106/special/using-javascript-monitoring-to-prevent-device-fingerprinting>

<sup>0</sup><http://webstats.inria.fr/>

## LAGADIC Project-Team

### 10.3. Popularization

- Due to the visibility of our experimental platforms, the team is often requested to present its research activities to students, researchers or industry. Our panel of demonstrations allows us to highlight recent results concerning the positioning of an ultrasound probe by visual servoing, grasping and dual arm manipulation by Romeo, vision-based shared control using our haptic device for object manipulation, the control of a fleet of quadrotors, vision-based detection and tracking for space navigation in a rendezvous context, the semi-autonomous navigation of a wheelchair, and augmented reality applications. Some of these demonstrations are available as videos on VispTeam YouTube channel (<https://www.youtube.com/user/VispTeam/videos>). This year there were among others, demonstrations organized for the HCERES expert committee that evaluated IRISA, about twenty people affiliated to the CNRS electronics network, students of the “Innovation et entrepreneuriat” Master, those of the L3 R&I at ENS Rennes, about twenty students from the “Ecole des Mines de Nancy”, several classes of high school students around Rennes, without forgetting the members of the Ph.D. thesis juries.
- Fabien Spindler and Giovanni Claudio were interviewed by TV Rennes about Pepper robot (<https://www.facebook.com/166100743494694/videos/vb.166100743494694/959489554155805/?type=2&theater>).
- Marie Babel participated to “15<sup>e</sup> Journée nationale des pôles de compétitivité” in March 2016 (Paris): HandiViz project was selected by the French Ministry of Finance
- Marie Babel participated to the Science Festival in October 2016 with an interview at “Village des Sciences” and a workshop for general public organized in Acigné near Rennes.
- Marie Babel participated to the “Convention Nationale des SATT” (October 2016, Paris).
- Marie Babel gave a talk on "HandiViz: a new driving experience" in October 2016, during the “Semaine des Technologies - Robotique et santé” organized at Insa Rennes.
- Vincent Drevelle participated to the “Journée science et musique” in Rennes, with an interactive demonstration of sound-based tracking of a micro aerial vehicle with a beam projector (in cooperation with the Panama team).
- An article related to the research activity of Alexandre Krupa on robotic needle steering entitled “Un robot qui apprend à viser” has been published in March 2016 in the general-audience magazine “Sciences Ouest”: <http://www.espace-sciences.org/sciences-ouest/340/dossier/un-robot-qui-apprend-a-viser>.
- Paolo Robuffo Giordano has given press releases on the activities involving formation control for multiple quadrotor UAVs to Émergences Inria, Sciences Ouest, and “Industrie & Technologies”.

## LEMON Team

### 10.3. Popularization

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

*Fête de la Science*, Oct. 2016, Genopolys Montpellier

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

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

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

Antoine ROUSSEAU co-authored the **Calendrier Mathématique 2017**

## **MAESTRO Project-Team**

### **10.3. Popularization**

Activities are presented in chronological order:

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

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

## **MARELLE Project-Team**

### **7.3. Popularization**

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

**MATHNEURO Team (section vide)**

## **MCTAO Project-Team**

### **9.3. Popularization**

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



## **MORPHEME Project-Team**

### **8.3. Popularization**

Xavier Descombes was invited to give a talk at "La fête de la science" in Juan Les Pins.

The Morpheme team has animated a stand during the "fête de la science" in Juan Les Pins.

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

## **STARS Project-Team**

### **9.3. Popularization**

François Brémond was invited to give a talk at Conférence des métiers at International Lycée (CIV) in Sophia, January 2016.

François Brémond was interviewed by the agence Citizen Press February 2016.

François Brémond was invited to give a talk at the Artificial Intelligence Workshop Meeting Amadeus - Inria, June 2016.

François Brémond was invited to give a talk at la rencontre Inria Industrie Ed-Tech, 1 December 2016.

François Brémond has published an article in ERCIM news, December 2016.

## **TITANE Project-Team**

### **10.3. Popularization**

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

## **TOSCA Project-Team**

### **9.3. Popularization**

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

## **VIRTUAL PLANTS Project-Team**

### **9.3. Popularization**

- Olivier Ali is a member of the writing committee of the newsletter of the Sophia-Antipolis Méditerranée Inria Centre.
- High School: Christophe Godin gives regular 2h classes at Lycée Pompidou (Montpellier) and in other Lycées.
- Christophe Godin gave two invited seminars in the context of the Maths Week (March), at the Lycée International de Valbonne, France.
- Christophe Godin gave an interview to the European Journal Labtimes about their paper published in eLife: Alejandrolvido (2016). Green noise. Labtimes 5, 34–35.

## WIMMICS Project-Team

### 10.3. Popularization

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

Fabien Gandon:

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

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

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<sup>0</sup>[https://interstices.info/jcms/d\\_80071/le-web-de-donnees](https://interstices.info/jcms/d_80071/le-web-de-donnees)

## **ZENITH Project-Team**

### **10.3. Popularization**

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

Zenith has major contributions to science popularization, as follows.

#### **10.3.1. Code Teaching for Kids**

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

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

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

#### **10.3.2. Science Outreach**

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

#### **10.3.3. Events**

Zenith participated to the following events:

- F. Massegli co-organized and co-animated the Inria’s stand at “La fête de la science”, Montpellier, held by Genopolys (a science village).
- F. Massegli is member of the project selection committee for “La fête de la science” in Montpellier.
- M. Servajean and A. Joly animated a stand at “La fête de la science”, Montpellier, held by the LIRMM laboratory.
- A. Joly and J. Champ participated to the set-up of a 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.).
- P. Valduriez published an article in Interstices on “the data in question” [58].