



RESEARCH CENTER
Lille - Nord Europe

FIELD

Activity Report 2014

Section Popularization

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ALGORITHMICS, PROGRAMMING, SOFTWARE AND ARCHITECTURE

- 1. ATEAMS Project-Team 4
- 2. DREAMPAL Team 5

APPLIED MATHEMATICS, COMPUTATION AND SIMULATION

- 3. DOLPHIN Project-Team 6
- 4. MEPHYSTO Team 7
- 5. MODAL Project-Team 8
- 6. NON-A Project-Team 9
- 7. SEQUEL Project-Team 10

DIGITAL HEALTH, BIOLOGY AND EARTH

- 8. BONSAI Project-Team 11

NETWORKS, SYSTEMS AND SERVICES, DISTRIBUTED COMPUTING

- 9. FUN Project-Team 12
- 10. RMOD Project-Team 13
- 11. SPIRALS Team 14

PERCEPTION, COGNITION AND INTERACTION

- 12. LINKS Team 15
- 13. MAGNET Team 16
- 14. MINT Project-Team 17

ATEAMS Project-Team

8.3. Popularization

Paul Klint:

- De Softwarerevolutie, Valedictory lecture.
- Nemo, Hoe ontstond de eerste computer?
- Nemo/Klokhuis, Hoe ontstond de eerste computer?
- BYOM: Bring Your Own Metrics (EQUA Symposium).
- The Revenge of the Coroutines (SEN Symposium).

Tijs van der Storm:

- Who's afraid of Object Algebras?, Joy of Coding 2014.
- Hack your DSL with Rascal, CodeGeneration 2014.
- The Rascal Language Workbench, NSPyre, 2014.
- I am plain text, – resistance is futile, Sioux, 2014.
- Rascal: functional programming for source code analysis and transformation, guest lecture at Hogeschool van Arnhem en Nijmegen (HAN).

Jurgen Vinju:

- De allereerste computerprogrammeur Ada Lovelace (1815 - 1852), Kennis van NU (radio appearance).
- Complexe Software, Eindhovens Dagblad.
- De eerste programmeur, VPRO Gids.

Jan van Eijck is member of the Advisory Board ('Raad van Advies') of the Artificial Intelligence Curriculum, University of Groningen (since Summer 2013). Paul Klint acts as treasurer of the EAPLS and was directory of the Master Software Engineering at Universiteit van Amsterdam (UvA) until September 1, 2014. He is also board member of the Instituut voor Programmatuur en Algoritmiek (IPA). Tijs van der Storm is head of the internship committee at CWI, co-organizer of the CWI Scientific Meeting and secretary of the CWI works council.

DREAMPAL Team

8.3. Popularization

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

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

He organizes and participates to the visit of classrooms on the Inria Plateau at EuraTechnologies, promoting interactions between the scientific community and secondary school students and their teachers. He organizes and/or animates events with children and/or adults in order to initiate them to code via Scratch or to computer science via unplugged activities (Poitiers, February 2014; Paris, October 2014; Inria Lille, December 2014).

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.

Hana Krichene participated in a contest "my thesis in 180 seconds", March 2014 - University Lille 1. The aim of the competition is to present the PhD student researches in simple terms in 3 minutes, with a clear, concise and convincing presentation to a diverse audience.

DOLPHIN Project-Team

9.3. Popularization

- Bioinspired computing - talk in undergraduate and graduate schools
- Inaugural conference of Math en Jean - Bioinspired computing (see <http://lille1tv.univ-lille1.fr/videos/video.aspx?id=6b894d87-bcd3-4ee5-a69c-7af3a2b6446f>)
- Operational research - for 2nde during integration week (June 2015)
- E-learning in algorithmics http://ressources.unisciel.fr/progcartes/co/_web.html
- Optimisation des données, Interstice
- Invited GECCO'2013 tutorial on Evolutionary Multiobjective Optimization
- Invited tutorial on Evolutionary Multiobjective Optimization (Reseau Mexico meeting, November 2014 in La Rochelle, France)
- Invited talk at PGMO-COPI conference on Multiobjective CMA-ES (November 2014 in Palaiseau, France)

MEPHYSTO Team

9.3. Popularization

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

MODAL Project-Team

9.3. Popularization

- **Fête de la Science**

Participant: Vincent Kubicki

Fête de la Science is a series of presentations in high schools. The objective is to meet the students and expose them to the research environment and the applications of the work done by the team.

- **XPérium Lille 1**

Participants: Quentin Grimonprez, Vincent Kubicki, Samuel Blanck, Maxime Brunin, Christophe Biernacki, Serge Iovleff, Julien Jacques, Vincent Vandewalle

Vulgarization of MODAL's research to sensitize high school students and members of Lille 1 university: <https://modal.lille.inria.fr/xperium/>

NON-A Project-Team

9.3. Popularization

- Non-A team participated in Innorobo 2014 at Lyon, which is the only European event on robotics (<https://team.inria.fr/non-a/2014/12/15/innorobo-2014/>).
- The new platform for mobile robot demonstration in Euratechnologie Inria Lille in December 2014 is provided by using the result of ADT SLIM (<http://www.inria.fr/en/centre/lille/news/robots-superheroes-of-cooperation-and-surveillance>).
- The invited paper [84] is published in the journal ERCIM News. It presents the main goals and the results of the Inria team-project NON-A in the context of Cyber-Physical Systems.

SEQUEL Project-Team

9.3. Popularization

- M. Valko gave an Interview on "Face Recognition" at Sciences et Avenir (July 2014)
- M. Valko gave an Interview on "Biometric applications will soon be part of our daily life" at ARTE Future (November 2014)
- Article on research of M. Valko's collaboration with INTEL - Ford and Intel Mobii project using Face Recognition, at engadget.com (June 2014) <http://www.engadget.com/2014/06/25/ford-and-intel-project-mobii-connected-car-cameras/>
- Article on research of M. Valko's collaboration with INTEL - Ford prototype using Face Recognition at intel.com (June 2014) <http://www.intel.com/content/www/us/en/automotive/ford-mobii-prototype-video.html>
- as part of the Inria mediation program, Ph. Preux met high schools pupils to explain what research is.

BONSAI Project-Team

9.3. Popularization

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

FUN Project-Team

8.3. Popularization

- Nathalie Mitton gave a talk on "Introduction to RFID" to Terminales S a in the framework of "Fête de la Science".
- Nathalie Mitton gave a talk on "The new challenges of the next generation of wireless ubiquitous networks" to Rencontres Inria Industries in Nov. 2014 on Telecom.
- Nathalie Mitton gave a talk at the ProjectCity Forum in October 2014 in Lille.
- Nathalie Mitton gave a talk at the CAFFEET 2014 conference on IoT in Smart Factories in San Francisco in November 2014.
- Nathalie Mitton gave a talk at the EDF-Institut Telecom joint lab workshop on IoT in Smart Cities in Paris in December 2014.
- Nathalie Mitton was invited speaker at "La RFID - innovation responsable" event, march 2014, Paris.
- Nathalie Mitton was invited speaker at International Transportation System Forum in Lille in September 2014.
- Roudy Dagher gave a talk on "Introduction to Wireless Sensor Networks" in the framework of "Fête de la Science".
- Viktor Toldov gave a talk on "Introduction to Wireless Sensor Networks" in the framework of "Fête de la Science".
- Valeria Loscri gave a talk in the context of "30 minutes de sciences" at the Inria Lille - Nord Europe, May 2014.

RMOD Project-Team

9.3. Popularization

- Marcus Denker gave two presentations about Pharo at the open source conference FOSDEM 2014.
- Damien Cassou gave a Pharo tutorial at PLDI'14.
- RIC Day was held 23 September 2014 @ University of Lille 1, Lille, Anne Etien and Damien Pollet gave a presentation about Pharo, Moose and software maintenance.
- A Programming Dojo was organized by Christophe Demarey on Dec 1st.
- A hands-on course about Pharo for the students at Lille in November organized by Léo Perard and Stéphane Ducasse.
- Demo for industry at the Rencontres Inria-Industrie *Technologies du Web*, 26 Nov 2014 at EuraTechnologies - Lille.
- RMOD co-organized and participated at ESUG 2014.
- Multiple public Pharo Sprints in Lille.
- Stefan Marr gave a half-day tutorial on “Building Self-Optimizing Interpreters with Truffle or RPython” at the Software Composition Group, Universität Bern, Switzerland, December 2nd, 2014
- Stefan Marr gave an invited talk on “Building High-Performance Language Implementations with Low Effort” at Software Composition Group, Universität Bern, Switzerland, December 1st, 2014
- Stefan Marr gave an invited talk on “Zero-Overhead Metaprogramming: Using Self-Optimizing Interpreters to Remove the Runtime Cost of Reflective Programming” at the Software Languages Lab, Vrije Universiteit Brussel, Belgium, November 2014
- Stefan Marr gave an invited talk “On the Way to Concurrency without Accidental Complexity” at the Institut für Systemsoftware, JKU University Linz, Austria, July 2014
- Stefan Marr gave an invited talk on “Building VMs for Language Designers” at the Software Development Team of Laurence Tratt, King’s College London, May 2014
- Stefan Marr gave a talk on “How to get a JIT Compiler for Free?” in the Smalltalk Developer Room of the FOSDEM Open Source Conference, Brussels, Belgium, February 2014

SPIRALS Team

9.3. Popularization

Lionel Seinturier has participated in October to the event Chercheur itinérant organized by the Inria Lille Nord Europe research center in the context of La Fête de la science. Two classes (3ème and 1ère) have been visited. The theme of the visit was crowdsensing and data gathering from mobile devices.

Walter Rudametkin has given some demonstrations at two major open source events: the Open World Forum in October in Paris, and Fossa in November in Rennes.

Loïc Huertas and **Maxime Colmant** have presented in November the PowerAPI software library (see Section 5.3) at the **GreenCodeLab** that is a challenge for the design of sustainable software

Loïc Huertas has given a demonstration of the PowerAPI software library (see Section 5.3) at the RIC day in September. The event targets students from computer science master programs and engineering schools.

The team has participated to three Inria organized events in relation with the industry: in January in Rennes for the Imatch event with the software industry (Clément Quinton, Loïc Huertas, Philippe Merle, Romain Rouvoy, Christophe Ribeiro, Daniel Romero Acero, Lionel Seinturier), in November in Rocquencourt for the RII Telecom du futur (Christophe Ribeiro), in November in Lille for the RII Web technologies (Philippe Merle, Christophe Ribeiro, Romain Rouvoy).

LINKS Team

8.3. Popularization

The team has participated at “Journée RIC “ of University Lille 1. In particular, Angela Bonifati, Radu Ciucianu and Tom Sebastian presented two demonstrations related to and X-Fun.

MAGNET Team

9.3. Popularization

MARC TOMMASI was invited to give seminars at (i) Inria Rennes and (ii) LiX Colloquium on data science.

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

MINT Project-Team

9.3. Popularization

- Fête de la science (October), “chercheurs itinérants”: Jonathan Aceituno, Fanny Chevalier, Alix Goguey, Damien Marchal, Hanaë Rateau, Nicolas Roussel, Laurent Grisoni
- “30 minutes de science” (September): Fanny Chevalier
- Guest of the *Place de la toile* France Cultures radio program (March): Nicolas Roussel
- technical advising of “zoomachines” week-end (imaginarium, Tourcoing, nov. 2014): Laurent Grisoni