Activity Report 2014

Section Popularization

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DISTRIBUTED SYSTEMS AND MIDDLEWARE
1. ASAP Project-Team (section vide) ....................................................... 5
2. ATLANMOD Project-Team ................................................................. 6
3. CIDRE Project-Team ......................................................................... 7
4. COAST Team (section vide) ............................................................... 8
5. CTRL-A Exploratory Action (section vide) ......................................... 9
6. MIMOVE Team ................................................................................ 10
7. MYRIADS Project-Team .................................................................... 11
8. REGAL Project-Team ......................................................................... 12
9. SCALE Team ................................................................................... 13
10. SPIRALS Team ................................................................................ 14
11. WHISPER Team .............................................................................. 15

DISTRIBUTED AND HIGH PERFORMANCE COMPUTING
12. ALGORILLE Project-Team ................................................................. 16
13. ALPINES Project-Team (section vide) .............................................. 17
14. AVALON Project-Team ..................................................................... 18
15. HIEPACS Project-Team ................................................................... 19
16. KerData Project-Team ..................................................................... 20
17. MESCAL Project-Team ................................................................... 21
18. MOAIS Project-Team (section vide) ............................................... 22
19. ROMA Team (section vide) ............................................................. 23
20. RUNTIME Team .............................................................................. 24
21. TYREX Project-Team ...................................................................... 25

DISTRIBUTED PROGRAMMING AND SOFTWARE ENGINEERING
22. ASCOLA Project-Team (section vide) ............................................... 26
23. DIVERSE Project-Team .................................................................. 27
24. FOCUS Project-Team ..................................................................... 28
25. INDES Project-Team (section vide) ................................................ 29
26. PHOENIX Project-Team ................................................................ 30
27. RMOD Project-Team .................................................................... 31
28. TACOMA Team (section vide) ....................................................... 32

NETWORKS AND TELECOMMUNICATIONS
29. COATI Project-Team ....................................................................... 33
30. DANTE Team ................................................................................ 34
31. DIANA Team ................................................................................ 35
32. DIONYSOS Project-Team ............................................................... 36
33. DYOGENE Project-Team (section vide) .......................................... 37
34. FUN Project-Team .......................................................................... 38
35. GANG Project-Team ...................................................................... 39
36. HIPERCOM2 Team ........................................................................ 40
37. INFINE Team ................................................................................ 41
38. MADYNES Project-Team (section vide) ................................................................. 42
39. MAESTRO Project-Team ................................................................. 43
40. MUSE Team (section vide) ................................................................. 44
41. RAP Project-Team (section vide) ................................................................. 45
42. SOCRATE Project-Team (section vide) ................................................................. 46
43. URBANET Team ................................................................. 47
ASAP Project-Team (section vide)
8.3. Popularization

In January 2014 the team participated to the Rencontres Inria - Industrie on the theme Répondre aux Défis de L’Ingénierie Logicielle, in which we notably presented our MoDisco project and collaboration \(^{1}\). The seminar had many participants from both industry and academia. Moreover, since several years, the AtlanMod team is already very involved in the open source community, notably via its constant activity within the context of the Eclipse Foundation. This activity actually takes different forms: creation and leading/development of Eclipse projects (under Eclipse.org or Eclipse Labs), participation to the major worldwide community events (i.e.; EclipseCon North America, EclipseCon Europe and EclipseCon France), organization of events targeting the local community (i.e. Eclipse DemoCamps), etc. This year again, the team has been active and visible in terms of concrete contributions to the community. The main remarkable items are the following ones:

- Leading of the MDT MoDisco project (Hugo Bruneliere), the Eclipse reference project concerning model-driven reverse engineering;
- Commitment to other projects directly under Eclipse.org: MMT ATL and EMFT EMF Facet (Hugo Bruneliere);
- Commitment to other projects under EclipseLabs: EMFToCSP (Jordi Cabot, Carlos Gonzalez) and EMF Views (Juan David Villa Calle, Jokin Garcia Perez, Hugo Bruneliere);
- Creation and development of a new incubation project under Eclipse Labs: Collaboro (Javier Canovas);
- Publication of a paper about our experience and feedback on developing and promoting open source projects in Eclipse [23], presented during the Open Source Software for MDE workshop at MODELS 2014 Conference (Hugo Bruneliere and Jordi Cabot);
- Presentation of talks during two main Eclipse events (Hugo Bruneliere): at EclipseCon North America 2014 about EMF Views [36], at EclipseCon France 2014 about Neo4EMF [35].
- In the context of the ARTIST EU collaborative project, we are strongly involved in the official ARTIST Open Source Release \(^{2}\), notably by developing and making available several (MoDisco-based) model discovery components from Java and SQL.

Generally, the team visible presence under Eclipse is also an efficient way to continue active collaborations with industrial partners, such as Mia-Software (Sodifrance) on MoDisco - EMF Facet, and Obeo on ATL.

\(^{1}\)http://videos.rennes.inria.fr/InriaMeito/index-HugoBruneliere.html\(^{2}\)http://www.artist-project.eu/open-source-package
9.3. Popularization

Guillaume Piolle has participated to two scientific popularization activities, both oriented towards secondary education pupils. In both cases, his participation consisted in presentations about the objectives, methods and results of research activities in computer security and privacy (including, but not limited to our activities in CIDRE):

- *Les cordées de la réussite* : national program aimed at facilitating access to higher education for pupils from various social backgrounds;
- *A la découverte de la recherche* : local program aimed at providing high school pupils with insights of research issues and activities.

Nicolas Prigent made a Tutorial Presentation at OSSIR Bretagne dealing with Visualization for Security.

Sébastien Gambs has participated to the event “A la découverte de la recherche”, in which he did five presentations in high school in order to raise the awareness of teenagers on privacy issues related to information technologies and to explain them the research on this topic.
COAST Team (section vide)
CTRL-A Exploratory Action (section vide)
8.3. Popularization

- Benjamin Billet was invited to speak at a one-day Android tutorial event organized by the ARAMIS business network at Lyon.
MYRIADS Project-Team

7.3. Popularization

- Roberto-Giacchino Cascella presented a demonstration of the VEP-S system at the EIT ICT Labs result day, Helsinki, Finland, December 2014.
- Christine Morin gave a talk entitled "Contrail Project Overview" at the Contrail Business Days, Roma, Italy, January 2014.
- Christine Morin was invited to give a talk on Myriads activities on cloud computing at the EIT ICT Labs meeting on future clouds, Rennes, France, March 2014.
- Christine Morin gave a talk entitled "Contrail: Interoperability and Dependability in a Cloud Federation" at the first workshop of the Joint Laboratory for Extreme Scale Computing, Sophia-Antipolis, France, June 2014.
- Christine Morin was invited to give a talk entitled "Contrail: Toward a Trusted Cloud Market Place" at the EIT ICT Labs Symposium on Future Cloud Computing, Rennes, France, June 2014.
- Christine Morin was invited to give a talk entitled "Contrail: Toward a Trusted Cloud Market Place" at the Inria Scientific Days, Lille, France, June 2014.
- Christine Morin gave a talk entitled "Checkpointing as a Service in Heterogeneous Clouds" at the second workshop of the Joint Laboratory for Extreme Scale Computing, Chicago, USA, November 2014.
- Guillaume Pierre organized the 2nd ConPaaS workshop (Rennes, May 26th 2014) and gave the opening presentation.
- Anne-Cécile Orgerie gave a tutorial entitled “Green Big Data Processing using Hadoop: An Introductory” with Shadi Ibrahim from KerData team, at the ACM/IFIP/USENIX Middleware conference, Bordeaux, December 2014.
- Arnab Sinha presented a demonstration of the VEP-S system at the EIT ICT Labs result day, Helsinki, Finland, December 2014.
- Cédric Tedeschi gave a talk about workflow activities within the DALHIS associate team at the Berkeley Inria Standford workshop, Paris, June 2014.
8.3. Popularization

The team animated a stand on distributed algorithms at the 2014 edition of "Fête de la Science"
9.3. Popularization

- Françoise Baude is in charge since September 2011 of the set up and animation of an educational program *Cordées de la Réussite*. She leads as Polytech’Nice Sophia member, and in connection with MASTIC activities at Sophia-Antipolis, two *Cordées pour la Science à Sophia* groups (one with Lycée Vinci Antibes, the other with Lycée Tocqueville Grasse). Since 2013, she is in charge of the AVOSTII-STI2D program implementation for Polytech’Nice Sophia, requiring advertising high-school pupils for engineering studies, in particular in ICT.

As ICT Labs Master School University of Nice Sophia-Antipolis coordinator, she is in charge of publicizing, orchestrating, and reporting about all the ICT Labs master programmes involvement of UNS (Internet and Technology Architecture, and Data Science programmes); and as part of the *Paris Node comité de pilotage*, to follow French activities within ICT Labs, and report about UNS activities within this KIC. Overall this mission required about two full-time months of work in 2014.

- Fabrice Huet is in charge, since 2011, of the *Informatiques et Sciences du Numérique* courses for the academia of Nice. These courses are offered to high school teachers who volunteer to offer a Computer Science option to their students. He has also given seminars in high school during the *Fête de la Science*. 
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).
9.3. Popularization

Julia Lawall presented a tutorial on Coccinelle at ENS (Masters students), the IT University of Copenhagen (PhD students), at the Suse Labs conference (developers), at LinuxCon Europe (developers), and at Middleware (PhD students and researchers).
ALGORILLE Project-Team

8.3. Popularization

Jens Gustedt is regularly blogging about efficient programming, in particular about the C programming language. He also is an active member of the stackoverflow community, a technical Q&A site for programming and related subjects. A book about modern C is in preparation.

In collaboration with G. Oster, Coast team of Inria Nancy Grand-Est, M. Quinson develops a pedagogic platform. This tool aims at providing an environment that is both appealing for the student, easy to use for the teacher, and efficient for the learning process. Since 2014, an Inria ADT project aims at changing this practical tool into an experimental platform to study the didactic of programming.

M. Quinson is co-leading a working group on the teaching of computer science in the LORIA laboratory. He served both as a program chair and a local chair for a nation-wide two-days workshop gathering about hundred people involved in the introduction of computer science in the French secondary education: university lecturers in charge of teaching to the prospective CS teachers, regional heads of the Education minister accompanying this reform and producer of teaching resources. He also served both as a program chair and local chair for a regional gathering of CS teachers of the secondary wanting to exchange their good practices. This initiative, initiated in Nancy, will spread in several other French cities in 2015.

Either as a speaker or as a co-organizer, M. Quinson participated in several events that aim the popularization of computer science. These targeted a large variety of public, kids and pupils (Telecom Nancy in November), university students (Inria in March), mathematics teachers (APMEP Lorraine in March), CS teachers (SIF-ISN day in June), or the general public (Fête de la science in November).

S. Contassot-Vivier has participated to Loria animation days towards high-school visitors. In this context he has used the material and games co-designed by M. Quinson and others in the context of unplugged computer science teaching.
ALPINES Project-Team (section vide)
AVALON Project-Team

9.3. Popularization

Eddy Caron has been interviewed by New Screens Magazine (N°9) edited by Imaginove. "Pipeline de production pour l'animation: Optimisation des temps de calcul et parallélisme", June 2014.

Gilles Fedak is a member of the Maison des Mathématiques et de l'Informatique steering committee.

Laurent Lefèvre has been interviewed by Atlantico Web News Magazine on "Gadget ou véritable promesse ? Comment Amazon compte se chauffer grâce à l'énergie dégagée par les datas centers", September 21, 2014.
**HIEPACS Project-Team**

### 9.3. Popularization

In the context of HPC-PME initiative, we started a collaboration with ALGO’TECH INFORMATIQUE and we have organised one of the first PhD-consultant action implemented by Xavier Lacoste led by Pierre Ramet. ALGO’TECH is one of the most innovative SMEs (small and medium sized enterprises) in the field of cabling embedded systems, and more broadly, automatic devices. The main target of the project is to validate the possibility to use the sparse linear solvers of our team in the area of electromagnetic simulation tools developed by ALGO’TECH.

The **HIEPACS** members have organized the PATC training session on Parallel Linear algebra at “Maison de la simulation” in Saclay from March 26th to March 28th.
9.3. Popularization

- Gabriel Antoniu
  Institut Français de Bio-informatique, Grand-Ouest, Rennes. Invited presentation at the *12e Rencontres des plates-formes de Bioinformatique du Grand Ouest* about the team’s experience with the Microsoft Azure cloud platform (November 2014).

- Shadi Ibrahim
  Parallel and Distributed Computing Centre (PDCC), Nanyang Technological University (NTU), Singapore. Invited seminar. Subject: *Consistency Management for Big Data Applications in the Clouds* (January 2014).

- Alexandru Costan
  EIT ICT Labs, Rennes. Invited presentation at the Workshop on *Trusted Clouds* about *KerData Team: Scalable Data Management on Clouds and Beyond* (March 2014).

- Matthieu Dorier
  Inria, Grenoble. Invited seminar about *Damaris: data management for scientific simulations on post-Petascale supercomputers* (June 2014).
MESCAL Project-Team

9.3. Popularization

- fête de la science: atelier sciences manuelles du numérique.
- Interventions dans des classes de seconde sur la simulation simcity.
- participation à l’IREM de Grenoble, groupe algorithmique.
MOAIS Project-Team (section vide)
ROMA Team (section vide)
9.3. Popularization

Brice Goglın is in charge of the diffusion of the scientific culture for the Inria Research Center of Bordeaux. He is also a member of the national Inria committee on Scientific Mediation. He gave numerous talks about high performance computing and research careers to general public audience and school student, as well as several radio and paper interviews about Inria’s activities. He is also involved in the popularization of computer programming and robotics programming and gave several wide audience seminar on these topics.

Brice Goglın gave talks about Software releases and Source version control with GIT in internal Inria seminars.

Samuel Thibault gave a talk about the structure of Internet and questions of security at "Unithé ou Café".

Olivier Aumage gave a talk at Seminar Modeling, at the Maison de la Simulation on the StarPU Runtime System.

Runtime organized a 2-days PRACE Advanced Training Center session where several member of the team gave talks about programming heterogeneous parallel architectures with tools such as StarPU and hwloc.
TYREX Project-Team

8.3. Popularization

M. Razafimahazo developed a mobile application for the pupils of the école de la paix, Grenoble. The application uses Augmented Reality for cultural heritage tour of Grenoble City with content produced by pupils.

M. Razafimahazo Animated a brainstorming during CitizenTIC around OpenStreetMap crowd-sourcing: “Les cartes changent la donne autour des parcours accessibles dans l’agglomération Grenobloise”.

N. Layaida animated several workshops on Open Linked Data for Grenoble City and Grenoble Agglomeration (La métro).

We received two pupils from secondary school, Jeremy Andreoletti and Hugo Kersaudy, for a one week initiation to research. We hosted several pupils from the primary school for a one day for a presentation and demos.

8.3.1. Institutional commitment:

C. Roisin Board member of the University Pierre Mendes-France, University of Grenoble, in charge of IT systems and TICE.

C. Roisin is President of the disciplinary commission of the University Pierre Mendes-France, University of Grenoble.

N. Layaida is member of the Scientific Board of Advanced Data-mining of the Parsyval Labex.

N. Layaida is member of the experts pool (selection committee) of the minalogic competitive cluster.
ASCOLA Project-Team (section vide)
9.3. Popularization

Our recent work on diversity against browser fingerprinting and the associated web site\(^0\) have been demonstrated in two open source forums (OWF’14\(^0\) and FOSSA’14\(^0\)). Following this, our work has been mentioned in general-audience press. In particular the Clubic magazine published a complete article about our work\(^0\), which was followed by 6000 unique visits on our web site in the following 24 hours. The work was also mentioned in Le Monde\(^0\).

\(^0\)https://amiunique.org/
\(^0\)http://www.openworldforum.paris/
\(^0\)https://fossa.inria.fr/
\(^0\)http://pro.clubsc.com/webmarketing/publicite-en-ligne/actualite-742853-fingerprinting-cookies.html
\(^0\)http://abonnnes.lemonde.fr/sciences/article/2014/11/24/le-fossa-bazar-techno-participatif_4528568_1650684.html
8.3. Popularization

Simone Martini has carried out extended work of scientific divulgation:

- member of the technical committee of Olimpiadi del Problem Solving (at Italian Ministry of Education), http://www.olimpiadiproblemsolving.com;
- member of the technical committee of two national projects of Italian Ministry of Education, founded by ESF - European Social Fund: “Robotica educativa”, and “Informatica nei licei”;
- various talks at institutes and workshops on the teaching methods for Computer Science.
- coordinator of some initiatives for the ‘Hour of Code’, see italia.code.org and programmailfuturo.it.

D. Hirschhoff takes part in several popularization activities in schools, in Lyon (association "Maths en Jeans").
INDES Project-Team (section vide)
8.3. Popularization

Various members of the Phoenix Inria project team participated in the following events:


In addition to the following popularization actions, the DomAssist project has been presented during 2014 in two french newspapers (Sud Ouest, La Croix), and in one television report on France 3 TV.
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.
- 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 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.
TACOMA Team (section vide)
COATI Project-Team

9.3. Popularization

- Fête de la Science
  Frédéric Giroire presented the stand "Mathémagie" (Magie et Mathématiques) at Rians, France, October 13-18, 2014;
  Frédéric Havet organized the "Village des Sciences de Rians", October 13-18 (900 attendees) and created several stands and trained some people to conduct them;
  Frédéric Havet presented the stand "Pavages: art, preuves et jeux" at Rians, France, October 13-18, 2014.

- Institut Esope - Maison des Sciences de Rians
  Frédéric Havet is vice-president of the association Esope 21 whose aim is scientific and literary popularization. He organized many local events and conducted various discovery workshops in elementary and secondary schools. In total, he spoke in front of about 30 classes on various topics (Mathematics, Computer Science, Astronomy, Ornithology, Job in research, etc.).
9.3. Popularization

- Interview of E. Fleury for X:ENIUS on arte TV: Big data : opportunity or curse ? (http://www.arte.tv/guide/fr/051094-020/x-enius)
- Interview of M. Karsai for Campus Channel TV: Master 2 program of Complex Networks (https://www.youtube.com/watch?v=k7I1m1NCbTU)
35

DIANA Team

8.3. Popularization

Walid Dabbous presented Future Internet challenges to high school students at Lycée de Valabre Gardanne in April 2014 and at CIV in October at CIV for the Science Week (Fête de la science).

Walid Dabbous made a presentation on Software Defined Networking and Network Functions Virtualization at the Inria Industry Day in Paris on the theme “Télécoms du futur”.

8.3. Popularization

- In their position paper [79], Bruno Tuffin and his co-author Patrick Maillé discuss for a large audience the issues and challenges of network neutrality in response to the European parliament text voted in April 2014.
- 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 (section vide)
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 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.
8.3. Popularization

Laurent Viennot has written an article on the history of telecommunication networks with a special focus on the phone network and on Internet [13].

Laurent Viennot has animated a weekly workshop on computer science unplugged in the Pouchet primary school in Paris at CM1 level (15h during 2014). The topics covered included Nim game, Euler paths in graphs, and error correcting codes.
9.3. Popularization

- the Inria-Industry meeting focusing on Telecommunications, in Rocquencourt, November 2014. The HIPERCOM2 team was very active and presented demonstrations of Wireless Sensor Networks. The demonstration prepared by Erwan Livolant, Cédric Adjih, Ichrak Amdouni, Pascale Minet concerned the principles of wireless sensor networks, the energy-efficient routing protocol, the node coloring algorithm running in the OCARI network to maximize network lifetime. Tuan Dang from EDF presented the new OCARI platform. Maurice Sellin from DCNS explained the deployment of an OCARI network in a DCNS ship, the application supported is fire detection and OCARI sensor nodes are provided by ADWAVE.

- Nadjib Achir, Cédric Adjih, Hana Baccouch, Ichrak Amdouni, Erwan Livolant and Ridha Soua explained the principles of communication and routing in wireless sensor networks and organized several demonstrations for undergraduates and students who visited Inria in February 2014.
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).
- 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.

MADYNES Project-Team (section vide)
9.3. Popularization

S. Alouf is a member of MASTIC, a commission in charge of popularization and regional and internal scientific animation (since November 2011).
MUSE Team (section vide)
RAP Project-Team (section vide)
SOCRATE Project-Team (section vide)
URBANET Team

9.3. Popularization

- Hervé Rivano gave a popularization talk for ISN teachers on smart cities and wireless networking issues in June 2014.
- Razvan Stanica gave an invited talk, titled *Data Collection and Analysis using Mobile Phone Sensors*, in the wireless sensor network training organized for industrial partners at the Ecole Polytechnique de Yaoundé in June 2014.