Activity Report 2016

Section Popularization

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9.3. Popularization

Sylvain Lefebvre participated in the 2016 science festival (stand and general public conference), and gave a presentation in front of an industrial public in an event organized by Fondation Charles Hermite.
10.3. Popularization

- A. Gégout-Petit is involved in the promotion of study in the fields of mathematics in Lorraine university. She was very active in the realisation of the video for the promotion of Mathematical studies http://videos.univ-lorraine.fr/index.php?act=view&id=3236.
- A. Gégout-Petit participates to the "Table ronde Bourse aux technologies, Big data et industrie du futur", Ecole des Mines de Nancy, November, 2016.
- Animation d’ateliers MATH.en.JEANS en collège dans la région de Nancy (Romain Azaïs, Clémence Karmann)
- S. Ferrigno: Advisor of a group of students, "La main à la Pâte" project, elementary schools, Nancy, January-June 2016
- S. Ferrigno: Advisor of a group of students, "La main à la Pâte" project, Institut médico-éducatif (IME), Commercy, September-December 2016
10.3. 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 first complete online version of his book Modern C, to appear in 2017, has been accessed more than 10000 times on a single day.
9.3. Popularization

An article on our KBDOCK resource for studying protein-protein interactions was published in ERCIM News (edition 104, January 2016) [22].

The team made a presentation at the public “Cité Forum” in Nancy (01-02 Apr 2016).
10.3. Popularization

- Laurent Grémy and Pierre-Jean Spaenlehauer have animated a stand in the “Village des Sciences du Loria” in March 2016.
- Laurent Grémy and Pierre-Jean Spaenlehauer have animated a stand during the celebration of the Loria’s 40 years anniversary in June 2016.
- Pierrick Gaudry organized and participated to a debate fed by excerpts from movies on the topic of cryptography and privacy in October 2016.
8.3. Popularization

Nazim Fatès contributed to the collective book *Lettres à Turing* (ed. Thierry Marchaisse, May 2016), which addresses the legacy of Turing in our Modern Times. He was invited to discuss this book and the question of artificial intelligence in three national radio programs:


Nazim Fatès participated to an open discussion (table ronde) on the theme of artificial intelligence (“Intelligence artificielle : quel monde prépare-t-elle ?”), invitation by the Cercle universitaire of Enghien-les-bains, on the 27th of September in Enghien-les-bains. He was interviewed by Eric Chaverou, journalist at France Culture for his radio program of May 20, 2016, on the theme: “L’intelligence artificielle made in France”. This interview is available on the website of the radio program or directly via soundcloud. He participated to a public debate on the theme “Jusqu'où ira l’intelligence artificielle ?” the Café des sciences et techniques, organised by the CNAM, in Épinal, 21 January 2016.
8.3. Popularization

- In March 2016 members of the team (François Charoy and Phillippe Kalitine) participated to the “Rencontres Université Entreprise” in Paris to demonstrate the collaborative editor MUTE (http://www.rue-aef.com).
- In January 2016 Claudia-Lavinia Ignat presented Coast research activities to the first year students at Ecole de Mines de Nancy.
- In May 2016 Claudia-Lavinia Ignat gave a lecture on Replicated Data Consistency at SOAMED Graduate School in Berlin.
- In May 2016 Claudia-Lavinia Ignat organised the meeting Research@Inria at Inria Nancy-Grand Est for presenting to internship students, PhD students and postdocs various Inria programs and the main research topics at Inria with a focus on activities of research teams at Inria Nancy-Grand Est. She also presented the main activities of a researcher and briefly described her research work.
- In November 2016 members of the team (François Charoy and Matthieu Nicolas) participated to the “Rencontre Inria-Industrie” (RII) on the topic - Interactions avec les objets et services numériques” in Lille to demonstrate MUTE collaborative editor.
- In December 2016 members of the team (Claudia-Lavinia Ignat, Gérald Oster, Matthieu Nicolas and Phillippe Kalitine) participated to the “Rencontre Inria-Industrie” (RII) on the topic - Nouvelles technologies pour la protection des données et des systèmes numériques” in Nancy to demonstrate collaborative editor MUTE.
- In December 2016 members of the team (Gérald Oster, Matthieu Nicolas and Phillippe Kalitine) demonstrated the collaborative editor MUTE during the visit of the Rectors of the Mexican Technological Universities at LORIA in the context of the bilateral MEXPROTEC program.
9.3. Popularization

- Amine Boumaza is a member of the editorial board of “Interstice”.
- Vincent Thomas gave proposed tutorials on “physics simulation” and “reinforcement learning” during “journées ISN-EPI” (24th of March 2016).
- Vincent Thomas participated in the preparation of “Computer Science Exporoute” (conducted by Inria Nancy Grand-Est) planned for 2017.
- Jean-Baptiste Mouret wrote an article for “Interstices” (“Des robots qui s’adaptent aux dommages en seulement quelques minutes”).
- Jean-Baptiste Mouret helped Pierre Vandeginste (journalist) to write an article about his work in “La Recherche” (Dec. 2016); he also appeared in Science et Avenir, Arte Future Mag, Socialter, Telerama.
- Serena Ivaldi appeared in the following articles / gave the following interviews:
  03/2016: La semaine, Têtes chercheuses. [http://www.lasemaine.fr/2016/03/17/tetes-chercheuses](http://www.lasemaine.fr/2016/03/17/tetes-chercheuses)
  03/2016: Pour la science, Quels obstacles à l’insertion des robots en société ? [https://pbs.twimg.com/media/CceuEH3W4AEoNx-.jpg:large](https://pbs.twimg.com/media/CceuEH3W4AEoNx-.jpg:large)
MADYNES Project-Team (section vide)
9.3. Popularization

Members of the team participate on a regular basis, to scientific awareness and mediation actions.

• Marie-Odile Berger and Gilles Simon wrote an article about augmented reality in Interstices [27].
• Erwan Kerrien is Chargé de Mission for scientific mediation at Inria Nancy-Grand Est. As such, he is a member of the steering committee of "la Maison pour la Science de Lorraine" 0, and member of the IREM 0 steering council. He also serves as the academic referent of an IREM working group aiming at introducing computer science in middle and high school curricula. Among other activites, he was also an associate researcher to a MATH.en.JEANS workshop, and he participated in the creation of a MOOC for teachers of the new ICN option (Informatique et Création Numérique - Computer Science and Digital Creation) at the beginning of high school curriculum.
• Gilles Simon participated to the “Fête de la science” (unplugged activities in computer science).
• Pierre-Frédéric Villard participated to open days and science festival in the IUT of Saint-Dié des Vosges. He presented augmented and virtual reality demos and their link to the high school mathematics program.
• Pierre-Frédéric Villard has been involved in the conception of the virtual visit for the Homo Numericus Exhibition (http://homonumericus.inria.fr).

0“Houses for Science” project, see http://maisons-pour-la-science.org/en
0Institut de Recherche sur l’Enseignement des Mathématiques - Research Institute for Teaching Mathematics
8.3. Popularization

Stéphane cotin gave invited talks at:
- the First European workshop on Nanomedicine, Modeling, Virtual Reality and Robotics applied to surgery (Strasbourg, 2016)
- the Business Engineering and Surgical Technologies symposium (Strasbourg, 2016)
- the OpenYourMind seminar (Paris, 2016)
- IHU Scientific meeting on registration and augmented reality (Strasbourg)

Members of the MIMESIS team contributed to the following events:
- presentation of our research activities during several IHU fellow meetings
- demonstration of our prototype of retina surgery training system during the national congress of ophthalmology (May 2016, Paris)
- demonstration of our prototype of retina surgery training system during the DMLA meeting (September 2016, Paris)
- demonstration of our prototype of retina surgery training system during the regional ophthalmology meeting (November 2016, Strasbourg)
10.3. Popularization

Demonstration at EHESP-University of Sorbonne- Paris Cité, March 2016 (A. Piquard-Kipffer).
Demonstration at LORIA’s 40th Anniversary, June 2016 (K. Deguernel, E. Vincent).
"Démixer la musique", Interstices, January 2016 (A. Liutkus and E. Vincent).
Intervention lors d’une action pour la Maison pour la Science en Lorraine au service des professeurs (A. Bonneau)
Démonstration lors de la journée Rencontre Inria Industrie sur le thème « Ed-Techs au service de e-Education », December 2016 (D. Jouvet)
NEUROSYS Project-Team

10.3. Popularization

https://www.youtube.com/watch?v=cRCtGuvRW5A

Interview Huffington Post, Oct. 26, 2016 (L. Buhry)
(http://www.huffingtonpost.fr/2016/10/26/la-fille-du-train-creativite-imagination/)

Interview for Inria to introduce Neurosys’ research on Brain-Computer Interfaces, Oct. 2016 (L. Bougrain)
https://www.youtube.com/watch?v=DBajwAI9VEw at 5:38:10

Interview for the Regional TV news (JT 19/20 France 3 Lorraine): Brain-Computer Interfaces, Sept. 29, 2016
(L. Bougrain, S. Rimbert)

Talk during the National Brain Awareness Week: Brain, consciousness and waves, Mar. 18, 2016, Bibliothèque Multimédia Intercommunale, Epinal (L. Buhry, L. Koessler)

Interview for Radio CaraibNancy: Neuroscience in Lorraine, Mar. 16, 2016 (L. Bougrain, S. Caharel and L. Koessler)

Exhibit at Loria’s open day for master students and engineers: controlling a robotic arm using EEG, Apr. 9, 2015 (L. Bougrain, J. Nex)

ORPAILLEUR Project-Team (section vide)
10.3. Popularization

SEMAGRAMME Project-Team

8.3. Popularization

- Maxime Amblard is scientific vice head of the editorial board of interstice, a French magazine popularizing computer sciences. He is the head of the rubric informatique — ou presque — dans les films.
- Maxime Amblard was scientific expert for the exhibition Homo Numericus.
- Bruno Guillaume was invited twice to present and lead an open discussion about Citizen Science: Séminaire ESPÉ DANE : la pépinière 4.0, in January, and Séminaire ESPÉ DANE : la pépinière 4.1, in October.
- Bruno Guillaume was invited in July to a panel discussion about Citizen Science, Les rendez-vous de Science&You.
10.3. Popularization

Karim Ramdani has given several talks at Université de Lorraine to raise researchers awareness on the risks of author-pays publication model (for more information on economic models of scientific publishing, see http://iecl.univ-lorraine.fr/~Karim.Ramdani/KR_BIB/AUTEURS.html).

Thomas Chambrion gave a presentation of applied mathematics at Lycée Poincaré (Nancy) in April 2016.
TONUS Team (section vide)
9.3. Popularization

- D. Talay participated in a scientific France Culture radio program in December.
VEGAS Project-Team (section vide)
VERIDIS Project-Team (section vide)