



Program

“Open Source Innovation Catalyst” track Collocated with OW2Con 2011

24th of November, 2011 – 9:00 am

Organized by IRILL (<http://www.irill.org>) with support from ICT Labs (<http://eit.ictlabs.eu/>)

Place: Orange Labs premises, Issy les Moulineaux (Paris, France)

The event is opened to any person wishing to come. The entry is free but prior subscription is requested (patrick.moreau@inria.fr).

Welcome

Roberto Di Cosmo, IRILL and Patrick Moreau, Inria

OtaSizzle - an Open Platform to Transfer Technology from a Research Project to Practice

Olli Pitkänen, Helsinki Institute for Information Technology HIIT

Kassi - creating business opportunities from an open source research project

Juho Makkonen, Kassi

Possible industrial use cases of KALIMUCHO

Philippe Roose, Associate Professors, LIUPPA/Laboratoire d'Informatique de l'UPPA

Polarsys (previously OPEES) as a mean to catalyse the maturation process (from TRL3 to TRL6) for OSS projects in the Embedded Software space.

Gael Blondelle, OBEO

Open Source Innovation Factory

Paolo Ceravolo, Assistant Professor, Università degli Studi di Milano, Italy, in collaboration with Engineering Group

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An Open Source-Based Approach for Industrializing Research Tools

Hugo Bruneliere – R&D Engineer – AtlandMod Team (INRIA, EMN & LINA)

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Detailed program

Welcome

Roberto Di Cosmo, IRILL and Patrick Moreau, Inria

OtaSizzle - an Open Platform to Transfer Technology from a Research Project to Practice

Olli Pitkänen, Helsinki Institute for Information Technology HIIT

Abstract:

OtaSizzle is a research project that has developed an open experimentation environment for testing mobile social media services. It is a "living lab" for thousands of users in Finland as well as in California, Kenya, and China. The project has created a platform and prototype services and studies them with extensive field tests, coupled with quantitative measurements and qualitative analysis. The outcome will be a "packaged" experimentation environment, "SizzleLab" concept. OtaSizzle consortium is coordinated by Aalto University / Helsinki Institute for Information Technology HIIT.

Kassi - creating business opportunities from an open source research project

Juho Makkonen, Kassi

Abstract:

Kassi is a web service where the members of geographically connected communities - university campuses, neighborhoods, business parks etc. - can exchange various types of resources: buy, borrow and rent goods and spaces, ask for and receive favors and organize car pooling. It was started on a university campus as a part of the OtaSizzle research project. The service took off on the campus, and now a growth enterprise has been set up to take it to communities around the world. This presentation is about how working closely with a research project and being open source can be extremely beneficial for an internet startup.

Possible industrial use cases of KALIMUCHO

Philippe Roose, Associate Professors, LIUPPA/Laboratoire d'Informatique de l'UPPA

Abstract:

The democratization of wireless networks combined to the miniaturization of communication devices make pervasive applications possible. The integration of sensors enables the connection to hardware and software environments. Nevertheless, such profusion of heterogeneous devices, networks interfaces and user's needs must face the limitations of mobile devices. It requires adapting continuously the structure of deployed applications in order to suit both the users' needs and the execution environment.

To provide self-adaptation, we offer a distributed platform called KALIMUCHO able to make hot (re-) deployment of distributed software components. This platform enables the deployment and the modification of the application structure at run time, as well as physical deployment on mobile hosts.

Kalimucho is an open-source platform available on OW2. It has been implemented and runs on PC (Windows/Linus) and Android platforms (smartphones, tablet).

After a general presentation of the Kalimucho platform and main features, the presentation will focus on use cases. Several applications sciescenarios in the domain of Alarming (transport), Tourism or Territory Discovery, Social (spontaneous communities).



Polarsys (previously OPEES) as a mean to catalyse the maturation process (from TRL3 to TRL6) for OSS projects in the Embedded Software space.

Gael Blondelle, OBEO

Abstract:

Polarsys settles a community and enables long-term availability of innovative engineering technologies in the domain of embedded systems.

On its innovation part, Polarsys intends to help researchers in the phase when they need to push their innovation from the state of a research prototype to a state where it can be widely deployed by industrial users for the development of safety critical systems with long life-cycle.

Typically, it includes the participation of academics to the Polarsys R&T roadmap, mentoring to choose an OSS strategy, maturity assessment of the project, as well as documentation of the project in the Polarsys catalog.

This presentation will explain the main business models around Polarsys, and how it creates a new channel of development for researchers in the domain of embedded systems.

Open Source Innovation Factory

Paolo Ceravolo, Assistant Professor, Università degli Studi di Milano, Italy, in collaboration with Engineering Group

Abstract:

In modern organizations, innovation is seen as the organization-wide activity of finding and profitably serving unmet customers' and market needs. In this context, the paradigm of open innovation has been proposed as a new model for the management of industrial innovation, in which firms work with external partners both to commercialize their internal innovations and to obtain a source of external innovations that can be successfully marketed. However, the concretization of external and internal information sources in innovative concepts is still an open challenge, since the acquisition, modeling and evaluation processes are always hard to automatize. Our talk presents a platform that mixes three different but complementary approaches: (i) the Innovation Factory Metamodel (IFM), proposed in the context of the ARISTOTELE project (www.aristotele-ip.eu) aimed at dealing with innovative concepts coming from internal and external collaborative networks, (ii) the open source platform SpagoBI, whose intrinsic flexibility allows the management of heterogeneous knowledge bases for reporting activities of organizations by KPI and metrics, and (iii) the Knowbots, advanced tools for the acquisition of concepts from internal and external sources like competitors' websites. Based on these components, we designed a framework for computing innovation metrics based on the IFM. The aim of our proposal is to provide a simple but effective tool to monitor the innovation level of an organization, and to evaluate if the events that modify the company knowledge-base increase, or decrease, the overall innovation level. The presentation will also include a real-world case study to better introduce the research challenge.

Open source and Standardisation

Jamil Chawki, Orange Group

Abstract:



An Open Source-Based Approach for Industrializing Research Tools

Hugo Bruneliere – R&D Engineer – AtlandMod Team (INRIA, EMN & LINA)

Abstract:

From a business perspective, Software Engineering is an enormous market which is always evolving and progressing from both economical and technical sides. Such a market requires constant adaptation, which is often made possible via the regular adoption of significant innovations. Thus, research labs, as priority innovation providers, are key actors of this market. However, the work of research labs must be followed by an industrialization process in order to actually bring these innovations to the real market. Unfortunately industrialization of research works is a very challenging process, thus (too) few research prototypes end up as successful and popular largely used products.

Based on our concrete experience and different feedback collected in this area, we have proposed a pragmatic business model for transforming the results of scientific experimentation into practical industrial solutions. The two key elements in this collaborative model are:

1. The introduction of a third entity, a technology provider, as an interface between the two classic partners in such a process (i.e. the research lab and the big company or community playing the role of the actual end user)
2. The fact that we rely on the use of open source and its ecosystem (i.e. the Eclipse Foundation) to largely facilitate the communication and exchanges between all the involved partners.

We will illustrate our business model by describing our successful collaboration experiences within the context of the ATL and MoDisco Eclipse “Modeling” projects.

Creating Value with Open Source

Teodor Danciu, Jaspersoft

Abstract:

This presentation ties the rapid development and feedback cycle that open source enables and showcases how it efficiently addresses business/technology problems. It will also consider the "participation" aspects of open source, enabling the creation of a higher degree of traction between the developer and the user, resulting in product improvements and long term success.



Speakers

Gael Blondelle

Gaël Blondelle has a strong experience in Open Source, and more specifically in communities like OW2 and Eclipse.

Gaël Blondelle works for Obeo as Open Source Business Developer.

Gaël represents Obeo at the Eclipse Modeling Working Group.

Gaël is currently JUG leader in Toulouse JUG.

He co-founded Petals Link in 2004, the company which supports the OW2 projects for SOA : Petals ESB and Petals Master. Gaël acted as CTO of Petals Link until 2010.

From 2007 to 2010, he was Chairman of the Technology Council at the OW2 consortium, the global open source consortium for Middleware.

Since he started in the software industry in 1996, he has been working mainly in Telco, Java and SOA Technologies. He started at Alcatel as a software engineer on phone simulators environment and then as a research engineer on corporate mobile communication tools. By 2000, he became consultant and trainer on Java, J2EE, XML and Web Services technologies at Valtech. He then acted as a middleware architect at France Telecom before creating Petals Link.

Hugo Bruneliere

Hugo Bruneliere is an R&D engineer working in the field of Model Driven Engineering (MDE) for the AtlanMod team with focuses on (model driven) reverse engineering, tool interoperability (based on model transformation) and global model management. He had notably been working, around these different topics, as the responsible for the INRIA coordination on the MODELPLEX (MODELLing solution for compLEX software systems) IST European project during three years and a half.

Since several years, he is active in the Eclipse community as the leader of the MDT-MoDisco project, a committer on the EMFT-EMF Facet project and a regular user of EMF, M2M-ATL and other Eclipse Modeling projects. He is a regular speaker at the Eclipse Community major events which are EclipseCon (North America), EclipseCon Europe (former Eclipse Summit Europe), as well as an organizer of DemoCamps (in Nantes) for the yearly Eclipse Simultaneous Releases.

In addition to frequently interacting with the various team's partner companies within the context of different collaborative projects, he has also published and presented more than 10 papers in various journals, conferences and workshops around MDE.

Paolo Ceravolo

Paolo Ceravolo is an Assistant Professor at the Department of Information Technologies, UNIMI. His research interests include Ontology-based Knowledge Extraction and Management, Process Measurement, Semantic Web technologies, Emergent Process applied to Semantics, Uncertain Knowledge and Soft Computing. On these topics he published several scientific papers and book chapters. Recently he has been conducting research activities within the research projects MAPS, KIWI, TEKNE, and SecureSCM. Currently, Paolo Ceravolo is directly involved in the ARISTOTELE projects. He is involved in the organization of different conferences such as: Innovation in Knowledge-Based & Intelligent Engineering Systems (KES), IEEE/IES Conference on Digital Ecosystems and



Technologies (IEEEDEST), Knowledge Management in Organizations (KMO), OnTheMove (OTM). Since 2008 he is secretary of the IFIP 2.6 Working Group on Database Semantics.

Jamil Chawki

Dr Jamil Chawki leads, since June 2008, Standardization Core Network & Cloud computing domain for France Telecom RD/ Orange Labs. Before this position, Jamil was a deputy director for Enterprise Cloud computing research program working on SaaS Marketplace architecture & strategy for France Telecom. In 2004 he was in charge of the first FTTH triple play pilot project for Jordan Telecom. From 2000 to 2002, he was appointed as Chairman & CEO of Ogero Telecom operator in Lebanon. He was in charge of OSS/BSS restructuring for Ogero Telecom and he supervised the implementation of first Gigabit Ethernet Data Network in the Middle East. Before 2000 he has worked 10 years as a Research manager in the Optical and IP Transport network at France Telecom RD.

Jamil is currently a Vice Chair for ITU-T Cloud Computing Focus Group.

Roberto Di Cosmo

Roberto Di Cosmo is an Italian born computer science investigator, based in France. He graduated from the Scuola Normale Superiore di Pisa and has a PhD from the University of Pisa, before becoming tenured professor at the École normale supérieure in Paris, then professor at the Paris 7 University. Di Cosmo was an early member of the AFUL, association of the french community of Linux and Free Software users, he's also known for his support in the Open Source Software movement. He was one of the founders, and the first president, of the Open Source Thematic Group within the System@tic innovation cluster. He also leads the new Free / Open Source Research and Initiative (IRILL) at INRIA, the largest IT research organization in Europe.

Teodor Danciu

Teodor Danciu is the founder and architect of the JasperReports library, the most popular open source reporting tool, and is now working for Jaspersoft. Before joining Jaspersoft, Teodor worked for almost 9 years with several French IT companies as a software engineer and team leader on ERP and other medium-to-large database-related enterprise applications using mainly Java technologies and the J2EE platform. Teodor has a degree in computer science from the Academy of Economic Studies in Bucharest

Juho Makkonen

Juho Makkonen, M.Sc. (Tech.), is an entrepreneur with a background in research, web development, and online community building. He is a co-founder and the CEO of Avoin Interactive Oy, a startup company that is developing the Kassi web service. Before founding the company Juho worked over three years in Aalto University as a researcher and a web developer. His prior work history includes various positions in the areas of software development, web design, and journalism.

Patrick Moreau

Patrick Moreau arrived in 2009 at the Technology Transfer and Innovation Department of INRIA as head of software assets. He has worked nine years in the industry, in the departments of R & D of Schlumberger. After an experience project manager, he was responsible for a development department of electronics and software. He then directed the



research laboratory in communications and embedded computing. Patrick Moreau then has worked eight years in technology consulting companies in management positions.

Olli Pitkänen

Olli Pitkänen is a senior research scientist and a docent at Aalto University. He holds a doctorate in information technology, a master's degree in software engineering, and a master's degree in laws. He has worked as a researcher and a teacher at Aalto University, at Helsinki University of Technology and at Helsinki Institute for Information Technology HIIT (<http://www.hiit.fi>) since 1993. Prior to academia he had worked as a software engineer and practiced law in the private sector. He has also been a member of the board in several IT companies. In 1999-2001 and 2003, he was a visiting scholar at University of California, Berkeley. He has also been a visitor at The Interdisciplinary Centre for Law and Information & Communication Technology, K.U. Leuven, Belgium. His research interests include legal, societal, and ethical issues related to future media, digital services, and information and communication technologies (ICT).

Philippe Roose

Philippe Roose is associate professor at the University of Pau (Anglet) since 2001. He obtained his PhD thesis in 2000 and his upper French thesis (HdR) in 2008. He is member of the LIUPPA computer science laboratory, team T2I-Alcool. He created the ALCOOL Group (Software Architecture, Components and Protocols) 2007. The last ten years, he published more than 40 scientific papers, books, chapters. He supervised more than 6 PhD thesis. In 2006 he obtained and was leader of a three years ANR Grant for a project called "TCAP - Video-flow transport over wireless sensor networks". In 2010 he obtained and still is the leader of another three years ANR Grant called "MOANO - Models and Tools for pervasive applications focusing on Territory Discovery". This project involves four public CS Labs and an INRIA team. His research domain areas are adaptation, middleware, software architecture, components and services, mobile and distributed applications and multimedia information system.