Adrien Joly

CONTACT

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TITLE

Researcher / Software engineer in Computer Science

DOMAINS

Social Networks, Context-Awareness, Ambient Awareness, Mobile applications

BIOGRAPHICAL
SKETCH

Adrien Joly is a PhD candidate researching on Ambient Awareness / Context-Aware Social Networks for the Social Communications department of Alcatel-Lucent Bell Labs, in collaboration with the CNRS-LIRIS laboratory and under supervision of Pr. Pierre Maret. He received a Master Degree of Information Technology from the Institut National des Sciences Appliquées de Lyon (INSA-LYON, France) in 2006. Achieved during his exchange program in Queensland University of Technology (Australia), his Master Project was to design and develop an extensible summary navigation system in order to demonstrate the SEO multimedia annotation scheme proposed by his supervisor: Dr. Dian Tjondronegoro.

In his PhD project, he explores new Ambient Awareness applications inspired by modern social networking sites, crowd-sourcing practices and Context-Awareness research. His first prototype ("Enterprise Contextual Notifier") is an enterprise social networking platform in which users benefit from a semi-automatic support for posting and filtering relevant social updates, in order to promote new collaboration and communication opportunities while reducing usage complexity, distractions and time consumption.

His current interests cover Ambient Intelligence, Pervasive Systems, Ubiquitous Computing, Social Networking, Semantic Web, Mobile Applications, and modular software architecture.

STUDIES

PhD in Information Technology September 2007 − September 2010
 Industrial PhD thesis between Alcatel-Lucent Bell Labs France and LIRIS laboratory (INSA de Lyon)
- Title : *A Context Management Framework based on Wisdom of Crowds, for Social Awareness applications*
- **6 international publications**
- Defense date : October 2010
- Supervisor : Prof. Pierre Maret

Exchange student (Master's by Research) July 2005 − July 2006
Queensland University of Technology (QUT), Brisbane, Australia
- Mobile applications
- Artificial Intelligence
- Operating Systems
- Trusted systems (Trusted Solaris)

Ingénieur en Informatique (Software Engineering) September 2003 − September 2006
Institut National des Sciences Appliquées (INSA) de Lyon, France
- Professional engineering course in Computer Science and Information Technology

DUT Informatique September 2001 − July 2003
IUT Aix-en-Provence, France
- Bachelor-equivalent course in Computer Science

Baccalauréat Scientifique June 2001
Lycée de Balagne, l'Ile-Rousse, France
- With Mathematics as speciality

THESIS SUBJECT

At a time when social media revolutionize the exchange of information between users of the Web 2.0, many enterprises are still applying older collaboration paradigms. Following the explosion of blogs and social sharing services on the Internet, some companies are beginning to catch up with these trends, but not all employees are familiar with these new practices which require manual contribution, even though they became usual for Web 2.0 users. Inspired from previous works and currents trends in Social Networking and Context-Awareness, we propose the iterative development of an experimental framework for contextual sharing and filtering of social updates. The intension

is to trigger more opportunities for communication in a collaborative environment, while preventing information overload.

PUBLICATIONS

International journals

Context-Awareness, the Missing Block of Social Networking . A. Joly, P. Maret, J. Daigremont. *International Journal of Computer Science and Applications* 4(2):50-65, ISSN 0972-9038. 2009.

Leveraging Semantic Technologies towards Social Ambient Intelligence. A. Joly, P. Maret, F. Bataille. *Context-Aware Mobile and Ubiquitous Computing for Enhanced Usability: Adaptive Technologies and Applications* 2009.

International conferences

Enterprise Contextual Notifier, Contextual Tag Clouds towards more Relevant Awareness. A. Joly, P. Maret, J. Daigremont. Prototype demonstration at *CSCW 2010, the ACM Conference on Computer Supported Cooperative Work*, ACM ed. Savannah, GA, USA. 2010.

Workspace Awareness without Overload: Contextual Filtering of Social Interactions, A. Joly, in *1st International Workshop on Smart Offices and Other Workplaces (SOOW)*, Intelligent Environments 2009, Barcelona, Spain. 2009.

Towards Successful Virtual Communities. J. Subercaze, C. El Morr, P. Maret, A. Joly, M. Koivisto, P. Antoniadis, M. Ihara. In *International Conference on Enterprise Information Systems*, Milan, Italy. pp. 677-688. Lecture Notes in Business Information Processing 24. Springer Berlin Heidelberg.

A User Profile Ontology For Situation-Aware Social Networking. J. Stan, E. Egyed-Zsigmond, A. Joly, P. Maret. In *3rd Workshop on Artificial Intelligence Techniques for Ambient Intelligence (AITAmI2008)*, J.C. Augusto, D. Shapiro and H. Aghajan ed. Patras, Grece.

Posters

The Natural Ubiquitous Call-out. J. Robinson, A. Joly. *Ubicomp 2009*, Orlando, Florida. 2009

Plateforme de filtrage contextuel des interactions médiées. A. Joly. In *Forum des Jeunes Chercheurs*, INFORSID conference 2009.

MAIN PRESENTATIONS

Seminars
- *April 2010* – T.U. Dortmund & DFKI Saarbrücken, Germany - "Context of Crowds, Ambient awareness framework based on contextual tags"
- *January 2010* – LIRIS Laboratory, Villeurbanne, France - "Leveraging Socially-tagged Resources for Contextual Filtering of Social Updates"
- *November 2009* – Alcatel-Lucent Bell Labs, Applications Domain, Nozay, France - "Tangible Contextual Tag Clouds towards Controlled and Relevant Interaction Awareness"
- *July 2009* – Introduction of a Summer School on Web-based Social Networks: "Ecole d'été Web Intelligence WI09", Véranne, France - "Réseaux Sociaux, Révolution des usages sur Internet, et nouvelles problématiques de recherche", with Pierre Maret
- *March 2009* BSS group, Universiteit Twente, The Netherlands - "Awareness without Overload in Computer-Supported Collaborative Environments"
- *November 2008* LaHC, Saint Etienne, France - "Context-Awareness, the Missing Block of Social Networking"

PROJECTS

2009 – "Social Bookmarks" project, Proposal, development and user-based experiment of a transposition of social bookmarking to real-life situations.

2009 – "D-Lab" project with l'Ecole Nationale Supérieure de Création Industrielle (ENSCI), common design around the "Social Radar" concept, identifying new usages on tomorrow's social networks.

2007-2009 – European Project ITEA2 EASY Interactions
Contribution to: use cases, context-awareness framework, multimodal framework, demonstrator development, and dissemination activities.

2008 – "Meeting Room Assistant" project, Development of an experimental social networking

platform for improving communication in meeting rooms, presented at Alcatel-Lucent Innovation Days 2008.

ADDITIONAL
INVOLVEMENT
Conducted several job interviews for Atos Origin and Alcatel-Lucent Bell Labs France.
Supervised two Master's trainees, in 2008 and 2010. One of them is now a PhD candidate at Alcatel-Lucent Bell Labs France.

PROFESSIONAL
EXPERIENCE

R&D engineer on mobile devices   November 2006 − August 2007
Atos Origin Integration, Aix-en-Provence, France
Assignments:
- Developped a SmartTP proxy for multimedia SIM cards on Windows Mobile 5 smartphones, externalized R&D project for Gemalto (presented to 3GSM 2007 conference, in Barcelona).
- Developped a secure HTTP sign-on mechanism using SIM cards, externalized R&D project for Gemalto.
- Supported development and filming of a video demonstrating a mobile solution for enterprise transport solution.
- Technologies: C++, C#, Windows Mobile 5, Java, Bouncy Castle

Research training in foreign research lab   February 2006 − June 2006
Queensland University of Technology (Brisbane, Australia)
- Title: "Adaptive and Multo-domain Hypermedia System for Mobile Users"
- Supervisor: Dr. Dian Tjondronegoro, Faculty of Information Technology
- Outcomes: 3 publications (including 1 as main author), grade 7/7
- Technologies: Java, DHTML for Pocket Internet Explorer 2003

Freelance developper for foreign start-up company   December 2006 − February 2006
Sauce Software (Brisbane, Australia)
- Assignment: Unified and generic user management module for Joomla (ex-Mambo, CMS application)
- Technologies and open-source tools: PHP, MySQL, Joomla, cPanel, vTiger CRM

Developer (training with extended contract)   April 2005 − June 2005
Intergraph Public Safety, Aix-en-Provence, France
- Assignment: Re-engineering of strategic software for firemen
- Technologies: C++, Win32 DLL

Developer (training with extended contract)   April 2005 − June 2005
Isotools, Eguilles, France
- Assignment: Design and development of a Flash-based interactive map generation module for a content management system
- Taks: Design of an optimized vectorial language, modular architecture, generation of flash binaries...
- Technologies: Adobe/Macromedia Flash 4, XML, C++, ActiveX/ATL, Javascript

SKILLS

Computer languages and technologies
- JAVA/J2EE, using Apache Tomcat and Jetty
- HTML, Javascript, Flash, AJAX and persistence/remoting frameworks: DOJO, DWR, Persevere
- XML/XSLT/XQuery, LAMP (PHP+MySQL), Python scripting
- C/C++/C# and Objective-C, on LINUX, MS Visual Studio, and XCode with iPhone SDK (MacOS)

Languages
- French: Mother tongue
- English: Fluent, regularly written and spoken
- Spanish: Beginner

REFERENCES

Pierre Maret	**Johann Daigremont**
Professor	Head of Social Communications Department
LaHC, Université de Saint Etienne	Alcatel-Lucent Bell Labs France
Saint-Etienne, France	Site de Villaceaux, Nozay, France
e-mail: *pierre.maret@univ-st-etienne.fr*	e-mail: *johann.daigremont@alcatel-lucent.com*