

**2nd IEEE International Workshop  
on Services Integration in Pervasive Environments (SIPE'2007)**

July 20, 2007, Istanbul, Turkey

<http://ares.insa-lyon.fr/sipe07/>

**in conjunction with the IEEE International Conference on Pervasive  
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## 1. Foreword

In the last years, service-oriented computing and pervasive computing are emerging as the next computing paradigms. Service-oriented computing allows to easily develop, publish and use software functionalities. Pervasive computing rests on mobile and/or embedded devices, available anywhere and anytime, that can potentially provide services. Bringing these two trends together raises the new challenge of integrating/unintegrating, in an application, non-predefined services just discovered in the pervasive environment. The Services Integration in Pervasive Environments workshop aims at facilitating exchanges and discussions between researches, industrials and other contributors working on these topics.

Last year in Lyon, we have developed three sub-areas of this topic: the Semantic Service Discovery, the Service Composition and Frameworks and Middlewares for Integration. This year, we particularly focus on Services Interactions, Services Deployment and Context-aware Services.

## 2. Program Chairs

### General co-Chairs

- Frédéric Le Mouël, INRIA / INSA Lyon, France, [frederic.le-mouel@insa-lyon.fr](mailto:frederic.le-mouel@insa-lyon.fr)
- Stéphane Frénot, INRIA / INSA Lyon, France, [stephane.frenot@insa-lyon.fr](mailto:stephane.frenot@insa-lyon.fr)

### Technical Program Committee

- Yolande Berbers – (KU Leuven, Belgium)
- Tarak Chaari – (INSA Lyon, France)
- Filip De Turck – (Ghent University, Belgium)
- Didier Donsez – (University Joseph Fourier, France)
- Stéphane Frénot – (INRIA / INSA Lyon, France)
- Nikolaos Georgantas – (INRIA, France)
- Sajid Hussain – (Acadia University, Canada)
- Noha Ibrahim – (INRIA / INSA Lyon, France)
- Julia Kantorovitch – (VTT, Finland)

- Rüdiger Kapitza – (FAU-Erlangen, Germany)
- Frédéric Le Mouël – (INRIA / INSA Lyon, France)
- Nicolas Le Sommer – (University of South Brittany, France)
- Michael Marschollek – (Technical University Braunschweig, Germany)
- Chris Nugent – (University of Ulster, United Kingdom)
- Jorge Parra – (IKERLAN, Spain)
- Pravin Pawar – (University of Twente, The Netherlands)
- Philippe Roose – (University of Pau, France)
- Ichiro Satoh – (NII, Japan)
- Sotirios Terzis – (University of Strathclyde, United Kingdom)
- Andrew Tokmakoff – (Philips Research, The Netherlands)

### 3. Workshop Schedule

- 08h15 - 08h30 : Opening – *Frédéric Le Mouël, Stéphane Frénot (INRIA Ares / INSA Lyon, France)*
- 08h30 - 10h00 : Session 1 – Services Interactions

"Fuzzy-based Support for Service Composition in Mobile Ad Hoc Networks"

*Guenter Prochart, Reinhold Weiss (Graz University of Technology, Austria), Reiner Schmid, Gerald Kaefer (Siemens AG, Germany)*

"Web Service Choreography Conformance Verification in M2M Systems through the piX-model"

*Gregory Van Seghbroeck, Filip De Turck, Bart Dhoedt, Piet Demeester (Ghent University, Belgium)*

"A formal-logic-based language for describing device interoperability"

*Sattisvar Tandabany (University of Grenoble, France, Hokkaido University, Japan), Marie-Christine Rousset (University of Grenoble, France), Yuzuru Tanaka (Hokkaido University, Japan)*

- 10h00 - 10h30 : Coffee break
- 10h30 - 12h00 : Session 2 – Services Deployment

"Dynamic Selection of Interactive eHomeCare Services"

*Sofie Van Hoecke, Kristof Taveirne, Filip De Turck, Bart Dhoedt (Ghent University, Belgium)*

"An Ontology-based Approach to Semantically Deploy Services in Pervasive Environments"

*Hajer Chamekh, Frédéric Le Mouël (INRIA Ares / INSA Lyon, France)*

"Privacy-Aware Service Integration"

*Pierre Parrend, Stéphane Frénot (INRIA Ares / INSA Lyon, France), Sebastian Höhn (Albert-Ludwig University, Germany)*

- 12h00 - 13h30 : Lunch

- 13h30 - 15h00 : Session 3 – Context-aware Services

"Mapping XML to OWL for seamless information retrieval in context-aware environments"

*Nassim Kobeissy, Marc Girod Genet, Djamel Zeglache (Institut National des Telecommunications, France)*

"Context-aware Specialization of Semantic Rules for choosing Services in Pervasive Environments"

*Noha Ibrahim, Frédéric Le Mouël (INRIA Ares / INSA Lyon, France)*

"ERMHAN: A multi-channel context-aware platform to support mobile caregivers in continuous care networks"

*F.Paganelli, E. Spinicci (Universitario per le Telecomunicazioni, Italy), A. Mamelli (Hewlett-Packard Italiana, Italy), R. Bernazzani (Universita Cattolica del Sacro Cuore di Piacenza,Italy), P. Barone (Hewlett-Packard Italiana, Italy)*

- 15h00 - 15h30 : Coffee break
- 15h30 - 16h45 : Round table -- "Challenges and Guidelines for Pervasive Integration" – *Frédéric Le Mouël, Stéphane Frénot (INRIA Ares / INSA Lyon, France)*
- 16h45 - 17h00 : Closing – *Frédéric Le Mouël, Stéphane Frénot (INRIA Ares / INSA Lyon, France)*