

Call for Participation

First IEEE International Workshop on Services Integration in Pervasive Environments (SIPE'2006)

29 June 2006, Lyon, France

<http://ares.insa-lyon.fr/sipe06/>

at IEEE International Conference on Pervasive Services (ICPS'2006)

26-29 June 2006, Lyon, France

<http://www.ens-lyon.fr/LIP/RESO/icps2006/>

Workshop scope

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.

Three main sub-areas of this challenge are tackled in this workshop:

- **Frameworks/Infrastructures for services integration:** different developing frameworks exist and can be used or modified to ease services integration; different deployment infrastructures also exist and can be adapted to take into account the pervasive nature of the environment.
- **Services interactions:** allowing non-predefined services to interact implies to have 'smart' and adaptive matching and communication mechanisms.
- **Dynamic combining of services:** because pervasive environments are highly dynamic, the integration of services needs to be aware of context changes to choose the more appropriate combining/deployment techniques.

Topics of interests (but not limited to)

- Developing frameworks for services integration
- Deployment infrastructures for services integration
- Semantic services discovery and matching
- Adaptive communication protocols for pervasive services
- Context-aware integration
- Aspect-oriented approaches in pervasive environments
- Services composition in pervasive environments
- Integration strategies
- Monitoring and management of services integration
- Contracting and negotiating approaches of integration
- Ontologies of integration
- Secure pervasive integration

Accepted Papers and Workshop Program

- 08h45 - 09h00 : Opening -- *Frédéric Le Mouël, Stéphane Frénot (INRIA Ares / INSA Lyon, France)*
- 09h00 - 10h00 : Session 1 -- Semantic Service Discovery
 - "Ontology-Based Context-Aware Service Discovery for Pervasive Environments"
Pravin Pawar (University of Twente, The Netherlands), Andrew Tokmakoff (Telematica Instituut, The Netherlands)
 - "Semantic-Based Context-Aware Service Discovery in Pervasive-Computing Environments"
Abdur-Rahman El-Sayed, James P. Black (University of Waterloo, Ontario, Canada)
- 10h00 - 10h30 : Coffee break
- 10h30 - 12h00 : Session 2 -- Service Composition
 - "Pervasive spontaneous composition"
André Bottaro, Anne Gérodolle (France Telecom R&D, France), Philippe Lalanda (LSR-IMAG, France)
 - "DSCL: A Language to support Dynamic Service Composition"
Caroline Funk (Ludwig Maximilian University Munich, Germany), Jelena Mitic, Christoph Kuhmuench (Siemens AG, Germany)
 - "Instantiable composition of services in a home environment"
Koen Victor, Julien Pauty, Yolande Berbers (Katholieke Universiteit Leuven, Belgium)
- 12h00 - 13h30 : Lunch
- 13h30 - 15h00 : Session 3 -- Frameworks and Middlewares for Integration
 - "An Infrastructure-Based Approach For Seamless Execution Of Pervasive Computing Applications"
K. Kalapriya, S. K. Nandy (Indian Institute of Science, India), N. C. Narendra (IBM India Research Lab, India)
 - "O3MiSCID, a Middleware for Pervasive Environments"
Rémi Emonet, Dominique Vaufraydaz, Patrick Reignier, Julien Letessier (INRIA Prima, France)
 - "Service-Oriented Distributed Communities in Residential Environments"
Pierre Parrend, Yvan Royon, Noha Ibrahim (INRIA Ares / INSA Lyon, France)
- 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)*

Each talk will last 30mn (20mn presentation, 10mn questions).

General co-Chairs

Frédéric Le Mouël INRIA / INSA Lyon, France frederic.le-mouel@insa-lyon.fr
Stéphane Frénot INRIA / INSA Lyon, France stephane.frenot@insa-lyon.fr

Technical Program Committee

Didier Donsez University Joseph Fourier, France
Stéphane Frénot INRIA / INSA Lyon, France
Nikolaos Georgantas INRIA, France
Parra Jorge Ikerlan, Spain
Frédéric Le Mouël INRIA / INSA Lyon, France
Nicolas Le Sommer University of South Brittany, France
Ioanna Roussaki National Technical University of Athens, Greece
Andrew Tokmakoff Telematica Instituut, The Netherlands