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 Vaufreydaz, 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**

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