Call For Papers

2009 Workshop on Middleware for Ubiquitous and Pervasive Systems (WMUPS)
http://www.dimap.ufrn.br/wmups2009/

Co-located with the Fourth International Conference on COMmunication System softWAre and middlewaRE - COMSWARE 2009 (http://www.comsware.org/index.shtml)
15th - 19th June 2009, Trinity College, Dublin, Ireland

Overview
The research interest in the area of pervasive and ubiquitous computing has recently experienced a significant grown. Such computing scenarios include applications endowed with context awareness and adaptive capacities and sensor instrumented environments where devices communicate through a Wireless Network. The building of software solutions for such scenarios involves a wide range of challenges due to the myriad of different applications to be considered, the specific requirements of such applications, as well as the multitude of hardware devices and communication technologies that constitutes the pervasive and ubiquitous computing scenario. To address such challenges researchers should investigate different and distinct areas of computing ranging from new technologies of Wireless Sensor and Actuator Networks and context provision platforms to software engineering techniques. Initial approaches to build software for pervasive and ubiquitous computing were based on the ad-hoc development of applications specifically tailored for a target technology and hardware platform. Recently, researchers have investigated the adoption of more structured and systematic approaches of development as those based on the employment of middleware platforms.

Workshop Scope
The Workshop on Middleware for Ubiquitous and Pervasive Systems (WMUPS) seeks to establish a forum for researches on the essential middleware services, abstractions and infrastructures as well as software engineering techniques and processes for busting the developing of software systems for pervasive and ubiquitous computing in general. Moreover, we intend to provide an effusive forum to discuss middleware concepts and services applied to a core technology in this scenario which are the Wireless Sensor And Actuator Networks (WSAN).

Topics
The topics of the workshop include, but are not limited to:

Middleware Services for Wireless Sensor And Actuator Networks (WSAN)
Naming, Location and Synchronization services
Mobility
Aggregation techniques and data management
Energy-aware middleware mechanisms
Cross layering and resource awareness
Fault tolerance and reliability
QoS management
Privacy and security services
Node Scheduling
Topology management
Resource discovery and management
Software engineering support for Ubiquitous and Pervasive Computing:
Architectures and patterns
Service-oriented architectures
Dynamic reconfiguration and adaptation
Agent technologies
Model-driven Development
Aspect-Oriented Techniques
Test and simulation tools

Programming models and abstractions for Middleware for Ubiquitous and Pervasive Computing
Middleware architectures and frameworks
Autonomic Computing techniques (self-assembly, self-configuration, self-distribution)
Middleware for Context Provision and management
Web services for Ubiquitous and Pervasive Computing

Middleware for novel applications and emerging technologies for pervasive and ubiquitous computing
Smart Spaces
Ambient Assisted Lived
Healthcare
Disaster management
Mobile TV
Wireless and Mobile Technologies (WiMax, WiBree, LTE, etc.), Devices (e.g. MID,
UMPC, wearables, etc) and Platforms (e.g. Android)
Practical Experiences of Using Middleware for Ubiquitous and Pervasive Computing

Submission Guidelines

Each paper will be reviewed by independent referees, according to significance,
originality, technical content, style, clarity, and relevance to the workshop.
Since the goal of the workshop is to generate a fruitful discussion among the
participants, at least one author of each accepted paper is expected to attend the
workshop. Submissions must be in the ACM format for conference proceedings.
Templates can be found at the following URL:
http://www.acm.org/sigs/pubs/proceed/template.html

Authors using the LaTeX2e templates should also ensure that they use only Type 1
fonts. See the ACM FAQ:http://www.acm.org/sigs/pubs/proceed/sigfaq.htm#a14

Please apply the ACM Computing Classification categories and terms. The ACM
Computing Classification scheme can be found at the following URL:
http://www.acm.org/class/1998/

Submissions should be in PDF format, sent to both fdelicato[at]gmail.com and
wmups2009[at]dimap.ufrn.br and having the subject "WPMUS Paper Submission". The
paper maximum number of pages is 6. More detailed submissions guidelines will be
published soon.
**Note:** It is encouraged to propose recent ideas that are not still completely validated. This is a workshop, not a mini-conference.

**Important Dates**

Paper submission: April 16th 2009  
Author notification: May 10th 2009  
Manuscripts due: May 14th 2009

**Program Committee**

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