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MobiQuitous 2005

July 17-21 San Diego, CA, USA   http://www.mobiquitous.org

2nd Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services

The combination of mobile and ubiquitous computing is emerging as a promising new paradigm with the goal to provide computing and communication services all the time, everywhere, transparently and invisibly to the user, using devices embedded in the surrounding physical environment. In this context, the communication devices, the objects with which they interact, or both may be mobile. The implementation of such a paradigm requires advances in wireless network technologies and devices, development of infrastructures supporting cognitive environments, and discovery and identification of ubiquitous computing applications and services.

The 2nd International Conference on Mobile and Ubiquitous Systems (MobiQuitous-05), organized in cooperation with AAAI and the IEEE computer society, will cover all these aspects, representing a forum where practitioners and researchers coming from the many areas involved in ubiquitous solutions design and deployment will be able to interact exchanging the cross-layer experiences needed to build the overall ubiquitous systems. Areas addressed by the conference include: applications, service-oriented computing, middleware, networking, agents, knowledge management and databases.

PAPERS: Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. The conference is interested in contributions addressing all the areas associated with mobile and ubiquitous architectures, infrastructure and services. Technical works clearly identifying how the specific contributions fit to an overall working solution are particularly of interest. Topics include, but are not limited to, the following:

- Ubiquitous architectures and systems
- Wearable computing and personal area networks
- Wireless technologies for mobile and ubiquitous (Bluetooth, ZigBee, 802.15.x, WiFi)
- Incentive-based deployment of ad hoc networks
- Reconfigurability and personalization of wireless networks
- Service discovery mechanisms, knowledge discovery, matching and composition mechanisms
- Wireless/mobile service management and delivery
- Security, privacy and social issues of mobile and ubiquitous systems
- Ontologies for mobile and ubiquitous computing
- Toolkits, development environments, and languages for ubiquitous computing

- Peer-to-peer knowledge management
- Emerging industrial/business scenarios
- Multimodal interfaces (speech, video kinetic, tactile)
- Smart spaces
- Ad hoc and sensor networking
- Localization and tracking
- Context and location aware application
- Multimedia encoding and transcoding
- Middleware services
- Agent technologies in ubiquitous, wearable, and mobile systems
- Hardware and software platforms for ubiquitous systems, and testbeds
- User interfaces

SUBMISSION INSTRUCTIONS: All paper submissions will be handled electronically (see the conference web page for details). Authors should prepare a Portable Document Format (PDF) or postscript version of their full paper. Papers must not exceed 8 pages double column (US Letter size, 8.5 x 11 inches) including text, figures and references. The font size must be at least 10 points. The deadline for registering the title and the abstract of the paper with our electronic submission system is February 16, 2005. Deadline for submitting the actual paper is February 23, 2005. All deadlines are 9:00 PM PST.

PUBLICATION: All submitted papers will be rigorously reviewed by technical program committee members. Accepted papers will be published in the conference proceedings, which is to be published by IEEE Computer Society Press and to be made available online via IEEE Xplore. Papers of particular merit will be proposed for publication in a ACM/Kluwer MONET special issue.

WORKSHOPS: Proposals for one-day workshops to be held in conjunction with the conference are solicited. A maximum of 2 pages should be submitted which include the workshop name, its scope and a list of topic of interests. Proposals should be submitted to both Workshop Chairs by December 17, 2004.

DEMOS: Proposals for research and industrial demos are solicited. A maximum of 2 pages should be submitted which include a description of the demo and needed resources from the conference organizers. Proposals should be submitted to the Demo Chair by May 29, 2005.

IMPORTANT DATES:

Paper registration: February *16*, 2005   **Full paper submission**: February *23*, 2005 **(extended)**

Notification of acceptance: April 13, 2005   **Camera-ready version:** May 4, 2005