# CALL FOR PAPERS

# MobiQuitous 2004

## The First Annual International Conference on
## Mobile and Ubiquitous Systems: Networking and Services

http://www.mobiquitous.org

August 22–25, 2004 ● Boston, Massachusetts, USA

Held in cooperation with AAAI (ACM and IEEE sponsorships pending)

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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 first ACM Annual International Conference on Mobile and Ubiquitous Systems: networking and services (Mobiquitous-04) 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**PAPERS:** Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited.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 feature topics:

- Ubiquitous architectures and systems
- Wearable computing and personal area network
- Wireless technologies for mobile and ubiquitous (Bluetooth, ZigBee, 802.15.x, WiFi)
- Wireless Internet access in ubiquitous systems
- Reconfigurability and personalization of wireless network
- 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
- 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
- Toolkits, development environments, and languages for ubiquitous computing
- Ontologies for mobile and ubiquitous computing

**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 6, 2004. The deadline for submitting the actual paper is February 13, 2004. All deadlines are 11:59PM PST.

**PUBLICATION:** All submitted papers will be rigorously reviewed by technical program committee members. Accepted papers will be published in the conference proceedings. Papers of particular merit will be proposed for publication in the ACM/Kluwer Wireless Networks journal.

**TUTORIALS:** Proposals for tutorials are solicited. Evaluation of tutorial proposals will be based on the expertise and experience of the instructors, and on the relevance of the subject matter. Potential instructors are requested to submit a tutorial proposal of at most 5 pages, including a biographical sketch, to the Tutorial Chair by *March 1, 2004*.

**DEMOS:** Proposals for research and industrial demos are solicited. A maximum of 3 pages should be submitted which include a description of the demo and needed equipment. Proposals should be submitted to the Demo chair by *March 1, 2004* (responses by April 30, 2004).

### IMPORTANT DATES:

Paper registration and submission:
**February 29, 2004**

Notification of acceptance:
**April 30, 2004**

Camera-ready version due:
**May 15, 2004**