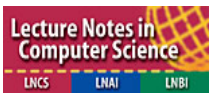


The 6th International Conference on Ubiquitous Intelligence and Computing (UIC-09)

- Building Smart Worlds in Real and Cyber Spaces -



http://www.itee.uq.edu.au/~uic09/
Technically co-sponsored by the IEEE and the IEEE Computer Society Technical Committee on Scalable Computing

Brisbane, Australia, 7 - 10 July, 2009

Co-located with ATC'09 (<http://www.itee.uq.edu.au/~atc09/>)



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Ubiquitous sensors, devices, networks and information are paving the way towards a smart world in which computational intelligence is distributed throughout the physical environment to provide reliable and relevant services to people. This ubiquitous intelligence will change the computing landscape because it will enable new breeds of applications and systems to be developed and the realm of computing possibilities will be significantly extended. By enhancing everyday objects with intelligence, many tasks and processes could be simplified, the physical spaces where people interact like the workplaces and homes, could become more efficient, safer and more enjoyable. Ubiquitous computing, or pervasive computing, uses these many "smart things/u-things" to create smart environments.

A smart thing can be endowed with different levels of intelligence, and may be context-aware, active, interactive, reactive, proactive, assistive, adaptive, automated, sentient, perceptual, cognitive, autonomic and/or thinking. Research on ubiquitous intelligence is an emerging research field covering many disciplines. A series of grand challenges exist to move from the current level of computing services to the smart world of adaptive and intelligent services. Started in 2005, the series of UIC conferences has been held in Taipei, Nagasaki, Three Gorges (China), Hong Kong and Oslo. UIC-09 will include a highly selective program of technical papers, accompanied by workshops, panel discussions and keynote speeches. Established as a premier venue in the area of ubiquitous intelligence and computing, UIC-09 will offer a forum for researchers to exchange ideas and experiences in developing intelligent/smart objects, environments and systems.

The UIC-09 topics include but are not limited to the following:

1. Ubiquitous Intelligence/Smart Systems

- * Sensor, Ad Hoc & Mesh Networks
- * Peer-to-peer Networks
- * Mobile Social Networking
- * Knowledge Representation and Ontology
- * Wearable, Personal and Body Area Systems
- * Middleware and Intelligent Platforms
- * Intelligent Services and Architectures
- * Agents, Swarm/Amorphous Systems
- * Context-aware Systems

2. Ubiquitous Intelligence/Smart Environments

- * Smart Room, Home, Office, Laboratory
- * Smart Building, Library, School, Campus
- * Smart Shop, Hospital and City, etc.
- * Vehicle, Road, Traffic & Transportation
- * Healthcare and Elder Care Services
- * Pervasive Learning, Games, Entertainment
- * Other Intelligent/Smart Applications

3. Personal/Social/Physical Aspects

- * Real/Cyber World Modeling and Semantics
- * User/Object Identity and Activity Recognition
- * Adaptive User Interfaces
- * Security, Privacy, Safety and Legal Issues
- * Emotional, Ethical and Psychological Factors
- * Implication and Impact of Ubiquitous Intelligence
- * Relations between Real and Cyber Worlds

4. Ubiquitous Intelligent/Smart Objects

- * Electronic Labels, Cards, E-Tags and RFID
- * Embedded Chips, Sensors & Actuators
- * MEMS, NEMS, Micro & Biometric Devices
- * Smart Appliances and Wearable Devices
- * Material, Textile, Cloth, Furniture, etc.
- * Embedded Software and Agents

IMPORTANT DATES

Submission Deadline:	January 30, 2009 (new!)
Authors Notification:	March 16, 2009
Final Manuscript Due:	April 13, 2009

WORKSHOPS

The UIC'09 Organizing Committee invites submission of workshop papers for workshops affiliated with the conference. The workshop proceedings will be published by IEEE. Submit workshop papers by **15 February 2009**.

See <http://www.itee.uq.edu.au/~uic09/workshops.html> for workshop descriptions.

PAPER SUBMISSION

Papers need to be prepared according to the LNCS format, and submitted in PDF format as described at <http://www.itee.uq.edu.au/~uic09/PaperSubmission.html>

PAPER PUBLICATION

Accepted conference papers will be published in Lecture Notes in Computer Science (LNCS, EI indexed). At least one author of each accepted paper is required to register and present their work at the conference, otherwise the paper will not be included in the proceedings. Selected papers, after further extensions and revisions, will be published in special issues of prestigious journals on Pervasive Computing.