

The Second International Symposium on Ubiquitous Intelligence and Smart Worlds (UISW2005)



<http://www.ubiquitous-intelligence.org/conf/uisw2005>
<http://cis.k.hosei.ac.jp/~jianhua/conf/uisw2005>

in conjunction with the IFIP International Conf. EUC'2005

Nagasaki, Japan, December 6-7, 2005



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Following ubiquitous computers, networks, information, services, etc., is a road towards a smart world (SW) created on both cyberspaces and real spaces. A SW is mainly characterized by ubiquitous intelligence (UI) or computational intelligence pervasive in the physical world, filled with ubiquitous intelligent or smart things, that are capable of computing, communicating, and behaving smartly with some intelligence. One of the profound implications of such ubiquitous smart things is that various kinds and levels of intelligence will exist ubiquitously in everyday objects, environments, systems and even ourselves, and possibly be extended from man-made to natural things. "UbiComp" or "percomp" can be regarded as the computing of all these intelligent/smart things/u-things, that are essential elements and components of the SW.

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. Intelligent/smart things is an emerging research field covering many disciplines. A series of grand challenges exist to move from the ubiquitous world with universal services of any means/place/time to the SW of trustworthy services with the right means/place/time. UISW2005 is a successor of the 1st International Workshop on Ubiquitous Smart Worlds (USW2005) held at Taipei in March, and offers a forum for researchers to exchange ideas and experiences in developing intelligent/smart objects, environments, and systems as well as discuss various personal/social/physical issues faced by UI and SWs. Topics include but are not limited to the following:

1. Intelligent/Smart Objects

- * Electronic Label, Card, E-Tag and RFID
- * Embedded Chips, Sensor & Actuator
- * MEMS, NEMS, Mote & Biometric Device
- * Everyday Goods, Artifacts, Robot, etc.
- * Smart Appliance and Wearable Device
- * Material, Textile, Cloth, Furniture, etc.
- * Emerging Intelligent/Smart Objects
- * Embedded Software and Agents

2. Intelligent/Smart Environments

- * Room, Home, Office, Laboratory, etc.
- * Building, Library, School, Campus, etc.
- * Shop, Clinic, Hospital and Health Care
- * Street, Yard, Park, Ground, City, etc.
- * Vehicle, Road, Traffic & Transportation
- * Land, Pool, Space and Hyperspace
- * Learning, Sport, Entertainment, etc.
- * Novel Intelligent/Smart Applications

3. Intelligent/Smart Systems

- * Sensor, Ad Hoc & Intelligent Network
- * knowledge Representation and Ontology
- * Wearable, Personal and Body Area Systems
- * OS, Middleware and Intelligent Association
- * Intelligent Service Architecture, Grid & Mesh
- * Massive Agents, Amorphous/Spray Systems
- * Proactive, Autonomic and Organic Systems
- * Novel Intelligent/Smart Systems

4. Personal/Social/Physical Aspects

- * Real/Cyber World Modeling and Semantics
- * End-User Interface, Control & Programming
- * Social/Natural/Physical Model of UI & SW
- * User/Object Identity and Activity Recognition
- * Security, Privacy, Trust and Legal Issues
- * Emotional, Ethical and Psychological Factors
- * Implication and Impact of UI and SW
- * Relations between Real and Cyber Worlds

IMPORTANT DATES

Submission Deadline: ~~June 20,~~ July 4, 2005
Authors Notification: Aug. 15, 2005
Final Manuscript Due: Sept. 15, 2005

ELECTRONIC SUBMISSION

Prepare your paper not more than 12 pages in PDF file (Adobe format) with using Springer-Verlag LNCS style. The corresponding instructions and templates are available at

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SUBMISSION NOTIFICATION

When you submit a paper, please send an e-mail to uisw2005@malab.k.hosei.ac.jp with the following information: paper ID number (assigned by the submission system), paper title, author's name, postal address, email address, abstract, and keywords.

PAPER PUBLICATION

Accepted papers will be published as proceedings by Springer's Lecture Note in Computer Science (LNCS). Distinguished papers will be revised and published in the International Journal of Ubiquitous Computing and Intelligence (JUCI), and the International Journal of Pervasive Computing and Communications (JPCC).

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