



Special Issue Call for Papers

Special Issue on “Recent Advanced in Ubiquitous Infrastructure Technology”

Motivation

Ubiquitous Infrastructure Technologies (UITs), including RFID/USN, mobile/wireless network, home network, and optical network technologies to provide computing and communication services, are growing rapidly because they are an exciting new paradigm that offers a challenging model of computing and poses fascinating problems regarding services, security and data management. This special issue aims to foster the dissemination of high quality research in any new theory, technique, and research related to UIT, as well as to enhance its state-of-the-art. This special issue also provides a chance for academia and industry to present novel research on all aspects of UIT, as well as theoretical and experimental studies of fielded systems. This issue seeks papers that emphasize new ubiquitous infrastructure technologies and their applications in the areas of information technology, high speed networking, wireless communications, multimedia applications, and mobile computing systems and so on.

Topics

Original contributions, not currently under review to another journal or conference, are solicited in relevant areas including, but not limited to, the following:

- RFID/USN
 - RFID/USN systems, architectures, application
 - RFID/USN models and services
 - RFID/USN middleware and software tools
 - RFID/USN communication protocol issues
 - RFID/USN security and privacy issues
 - RFID/USN platform issues
 - RFID/USN modeling and performance evaluation
- Home Networks
 - Home network middleware and protocols
 - Home applications and services
 - Commercial and industrial application
 - privacy, authentication, security
 - Embedded software and hardware
 - Embedded System Architecture
 - Smart and Personal Devices for SH
 - Power-Aware Computing for SH
- Others
- Mobile/Wireless Networks/
 - Architectures, protocols, and algorithms
 - OS and middleware support
 - Cryptography, security and privacy issues
 - Service and management environment
 - Recent trends in mobile/wireless applications
 - BcN/NGN fixed/mobile convergence
 - BcN/NGN interworking and security
 - BcN Service Quality
- Optical Networks
 - New technologies and their applications
 - Architecture, protocols, and algorithms
 - Survivability, reliability, and security
 - Transparency and all-optical networks
 - Performance modeling and simulations
 - Operations support systems
 - Signaling and information models for network control and management

Submissions

Authors are invited to submit manuscripts reporting original unpublished research and recent developments. Manuscripts should be written in English and strictly follow the guidelines of the Telecommunication Systems Journal. Instructions for Contributors are in: <http://www.springer.com/business/business+information+systems/journal/11235>. The selected papers, which have appeared in ICUT-09 (Kyushu Sangyo University, Fukuoka, Japan, December, 2009, <http://www.icut2009.org>) conference proceedings, could be submitted to this special issue if they are substantially revised or improved and extended from their earlier versions with at least 30% new materials or results to comply with the copyright regulations. The cover letter should indicate the names of the authors and their affiliations, addresses, faxes, and e-mails. Prospective authors should submit full manuscripts in PDF format, electronically by e-mail to the Guest Editors, Prof. Changhoon Lee, at changhoonlee08@gmail.com by March. 1st, 2010.

Important Dates

Deadline for paper submission: March 1st, 2010
Notification of acceptance: June 1st, 2010:

Revised paper due: May 1st, 2010
Publication date: 2011 (Tentative)

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