



## **Call for Papers**

Special Issue on

### **Multimedia Technology for Pervasive Computing Environment**

**The Journal of Supercomputing**

Editor-in-Chief: Prof. Hamid R. Arabnia

#### **Introduction**

Pervasive computing environment (PCE) is the trend towards increasingly ubiquitous connected computing devices in the environment, a trend being brought about by a convergence of advanced electronic and communications technologies. Meanwhile, the rapid expansion of multimedia services from voice communications to high performance video in recent years is an indication that significant value is placed on multimedia applications as key innovations for both academia and industry. With the emerging multimedia techniques which can be used for various pervasive and ubiquitous applications such as health care, environmental monitoring, security and surveillance, there are a number of important challenges that arise when multimedia transmits in this kind of PCE.

The goal of this issue is to bring together the state of the art research contribution that describes original and unpublished work addressing multimedia technology for PCE. Topics of primary interest include, but are not limited to:

- Pervasive multimedia services and applications
- Multimedia personalization and adaptation for PCE
- Multimedia systems and architecture for PCE
- Interactive multimedia systems
- Intelligent context fusion for PCE
- System model and parameter for pervasive multimedia applications
- Multimedia coding and delivery standards efforts for PCE
- Cross-layer optimization for multimedia transmission in PCE
- Resource allocation and scheduling for multimedia in PCE

- Content-aware digital media rights management for PCE
- Security mechanisms and schemes for multimedia communications in PCE
- Multimedia files systems, databases, and retrieval in PCE
- Social aspects in ubiquitous multimedia
- Related multimedia quality assessment

### **Submission Details:**

Original, high quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought. Submitting authors should follow the Author Guidelines available from <http://www.springer.com/computer/programming/journal/11227>. Paper submissions must follow the instructions described in the Journal of Supercomputing Web site at <http://www.editorialmanager.com/supe/> Authors have to select Choose Article Type "Sp Iss: MultimediaTechnology-Pervasive".

### **Important Dates:**

Paper Submission Deadline: Jan. 30, 2010  
 1st Notification of acceptance: Mar. 30, 2010  
 Submission due date of revised paper: Apr. 30, 2010  
 2nd Notification of acceptance: May 30, 2010  
 Submission of final revised paper: Jun. 30, 2010  
 Publication date: 4th quarter, 2010/1st quarter, 2011 (Tentative)

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