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## **Information Sciences Special Issue on**

### **“Mobile and Internet Services in Ubiquitous and Pervasive Computing Environments”**

#### **Overview**

Due to the rapid development of wireless technologies and electronic devices, there has been a considerable interest in Ubiquitous and Pervasive Computing (UPC). UPC enables to create a human-oriented computing environment where computer chips are embedded in everyday objects and interact with persons and physical world. Through UPC, people can get online even while moving around, thus having almost permanent access to their preferred internet services. Furthermore, as the context is changing, system will dynamically update the related services for users both in functional and nonfunctional characteristics. That is, the current Internet services will be renovated with UPC to address the emerging needs of the information society. With a great potential to revolutionize our lives, UPC also poses new research challenges connected with mobile and internet solutions.

This special issue aims to report on the most recent challenges and progresses in the area of development and application of UPC environments with focus on mobile and internet services.

Paper submissions on practical and theoretical topics are invited. Topics include (but not limited to):

- Theoretical foundations for UPC
- Algorithmic paradigms, models and analysis for UPC
- Context-aware scheme for Internet services
- Smart spaces and intelligent environments
- Embedded systems and wearable computers
- Middleware and agent technologies for Internet services in UPC
- Programming paradigms for Internet services in UPC
- Knowledge-based Systems for Internet services in UPC
- Mobile computing systems and services
- Mobile Internet and mobility management
- Wireless sensors, ad-hoc and mesh networks for Internet services in UPC
- Security issues and protocols for Internet services in UPC
- Authentication and Access control for Internet services in UPC
- Privacy and trust for Internet services in UPC
- Business model and protocols for ubiquitous services
- Emerging standards and Technologies
- Artificial Intelligence in UPC
- Cognitive models application In UPC

### **Important Dates**

- Paper submission: August 31, 2011
- Acceptance notification: January 31, 2012
- Final papers: March 31, 2012

### **Submission procedure**

Papers submitted to this special issue for possible publication must be original and must not be under consideration for publication in any other journals. Submissions of both in-depth research papers and review/application-oriented papers are encouraged.

Questions about the special issue should be directed to Special Issue Editors Prof. Ilsun You ([ilsunu@gmail.com](mailto:ilsunu@gmail.com)) or Prof. Marek R. Ogiela ([mogiela@agh.edu.pl](mailto:mogiela@agh.edu.pl)).

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