Editorial

Jong Hyuk Park

Department of Computer Science and Engineering,
Kyungnam University, Korea
E-mail: parkjonghyuk1@hotmail.com

Xiaolin (Andy) Li

Computer Science Department,
Oklahoma State University, USA
E-mail: xiaolin@cs.okstate.edu

SeungJin Lim

Department of Computer Science,
Utah State University, USA
E-mail: s.lim@usu.edu

Timothy K. Shih

Department of Computer Science,
National Taipei University of Education, Taiwan
E-mail: TimothyKShih@gmail.com

Biographical notes: Jong Hyuk Park received his PhD Degree in Graduate School of Information Security from Korea University, Korea. Before September, 2007, he had been a research scientist of R&D Institute, Hanwha S&C Co., Ltd., Korea. He is now a Professor at the Department of Computer Science and Engineering, Kyungnam University, Korea. He has published many research papers in international journals and conferences. He has been served as Chairs, program committee or organising committee chair for many international conferences and workshops. He has won a Best Paper Award of the *2nd International Conference on Information Security and Assurance* (ISA 2008).

Xiaolin Li received the PhD Degree in Computer Engineering from Rutgers University, USA, 2005. He is currently an Assistant Professor in Computer Science Department at Oklahoma State University (OSU), USA, and Director of Scalable Software Systems Laboratory (S3Lab, http://s3lab.cs.okstate.edu/). His research interests include distributed systems, sensor networks, and network security. He is in the executive committee of IEEE Technical Committee of Scalable Computing (TCSC) and the coordinator on Sensor Networks. He has been a program chair for several international conferences and workshops and is on the editorial board of three international journals. He regularly reviews NSF grant proposals as a panelist. He is a member of IEEE and ACM.

SeungJin Lim is an Assistant Professor in the Department of Computer Science at Utah State University, USA, focusing on spatiotemporal/visual data mining research in ubiquitous environments. He has served for international conferences and journals in the area of data mining, ubiquitous/semantic computing and databases in various capacities such as General Editor for *Int'l Journal of Multimedia and Ubiquitous Engineering* in 2007, Program Co-Chair for the *4th Int'l Symposium on Ubiquitous Applications and Security Services*, Publicity Chair for the *3rd IEEE Asia-Pacific Services Computing Conference*, and PC member for data mining conferences.

Timothy K. Shih is a Professor of the Department of Computer Science at National Taipei University of Education, Taiwan. He is a member of ACM. As a senior member of IEEE, he joins the Educational Activities Board of the Computer Society. His current research interests include multimedia computing and distance learning. He has edited many books and published over 380 papers and book chapters, as well as participated in many international academic activities, including the organization of more than 50 international conferences and several special issues of international journals. He is the founder and co-Editor-in-Chief of the *International Journal of Distance Education Technologies*, published by Idea Group Publishing, USA.

We are delighted to present you the *International Journal of Ad Hoc and Ubiquitous Computing* (*IJAHUC*). This special issue contains six technical papers dealing with cutting-edge research and technology related to the design and implementation of architectures, algorithms and protocols of ubiquitous and multimedia engineering. This issue mainly collects extended papers from the 2007 International Conference on Multimedia and Ubiquitous Engineering (MUE 2007). We strongly believe that the selected papers make a significant contribution to researchers, practitioners, and students working in the areas of the Multimedia and Ubiquitous Engineering.

In the paper 'Energy-efficient relaxed rekeying policies for distributed key management in sensor networks', Jibi Abraham and K.S. Ramanatha discusses a basic key management protocol to generate and distribute the keys required for a secure group communication system, which also preserves the backward and forward secrecies.

Michael S. Zehmeister et al. proposes 'Illumination identification by using image colour data and robot's location and orientation data'. The aim of the system is to identify the current lighting level as one of a set of known conditions. The proposed system uses both the colour data of image pixels and location and orientation information of artificial intelligence robot, homonymous with 'partner' in Japanese to identify lighting levels, allowing a vision system to switch to an appropriate pre-configured calibration.

In the paper 'Towards a service-oriented Middleware Enabling Context Awareness for Smart Environment', Yuebin Bai et al. proposes the middleware which supports the application development of context-awareness under ubiquitous networks environment. It applies the updated service-oriented and light-weight structure with excellent expansibility and efficiency in the running process.

In this paper 'Buyer–seller watermarking protocols with off-line trusted third parties', Chun-I Fan et al. proposes a novel buyer-seller watermarking protocol, with an off-line trusted third party, that can withstand these attacks and resolve the dispute between the buyers and the sellers fairly.

The paper 'Visual-based embedding systems with targeted secret disclosures and applications' by Shiuh-Jeng Wang et al. is proposed. In this paper, a VWC-system (Visual-based Watermarking Concealment System) is proposed to create a watermark embedding procedure for the purpose of protecting intellectual rights.

In this paper 'A seamless handover scheme in IPv6-based mobile networks', Hayoung Oh et al. proposes a seamless handover scheme with temporal reuse of Care of Addresses (CoAs) and Packet Buffering Point (PBP) in IPv6-Based mobile networks.

Finally, we would like to express our sincere appreciation to all the authors for their valuable contributions and also to the referees for their cooperation and hard work in reviewing the papers in a timely and professional manner. Our special thanks go to Professor Han-Chieh Chao and Professor Yuh-Shyan Chen, who are Editor-in-Chief of IJAHUC for his supports throughout the whole publication processes.