Message and Organization Committee

Message from the MUE 2013 General Chairs

MUE 2013 is the FTRA 7th event of the series of international scientific conferences. This conference will take place in May 9–11, 2013, in Seoul Korea. The aim of the MUE 2013 is to provide an international forum for scientific research in the technologies and application of Multimedia and Ubiquitous Engineering. It is organized by the Korea Information Technology Convergence Society in cooperation with Korea Information Processing Society. MUE2013 is the next event in a series of highly successful international conferences on Multimedia and Ubiquitous Engineering, MUE-12 (Madrid, Spain, July 2012), MUE-11 (Loutraki, Greece, June 2011), MUE-10 (Cebu, Philippines, August 2010), MUE-09 (Qingdao, China, June 2009), MUE-08 (Busan, Korea, April 2008), and MUE-07 (Seoul, Korea, April 2007).

The papers included in the proceedings cover the following topics: Multimedia Modeling and Processing, Ubiquitous and Pervasive Computing, Ubiquitous Networks and Mobile Communications, Intelligent Computing, Multimedia and Ubiquitous Computing Security, Multimedia and Ubiquitous Services, Multimedia Entertainment, IT and Multimedia Applications. Accepted and presented papers highlight new trends and challenges of Multimedia and Ubiquitous Engineering. The presenters showed how new research could lead to novel and innovative applications. We hope you will find these results useful and inspiring for your future research.

We would like to express our sincere thanks to Steering Chairs: James J. (Jong Hyuk) Park (SeoulTech, Korea), Martin Sang-Soo Yeo (Mokwon University, Korea). Our special thanks go to the Program Chairs: Eunyoung Lee (Dongduk Women’s University, Korea), Cho-Li Wang (University of Hong Kong, Hong Kong), Borgy Waluyo (Monash University, Australia), Al-Sakib Khan Pathan (IIUM, Malaysia), SangHyun Seo (University of Lyon 1, France), all Program Committee members and all the additional reviewers for their valuable efforts in the review process, which helped us to guarantee the highest quality of the selected papers for the conference.
We cordially thank all the authors for their valuable contributions and the other participants of this conference. The conference would not have been possible without their support. Thanks are also due to the many experts who contributed to making the event a success.

May 2013

Young-Sik Jeong
Leonard Barolli
Joseph Kee-Yin Ng
C. S. Raghavendra
MUE 2013 General Chairs

Message from the MUE 2013 Program Chairs

Welcome to the FTRA 7th International Conference on Multimedia and Ubiquitous Engineering (MUE 2013), to be held in Seoul, Korea on May 9–11, 2013. MUE 2013 will be the most comprehensive conference focused on the various aspects of multimedia and ubiquitous engineering. MUE 2013 will provide an opportunity for academic and industry professionals to discuss recent progress in the area of multimedia and ubiquitous environment. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in multimedia and ubiquitous engineering. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in these important subjects.

For MUE 2013, we received many paper submissions; after a rigorous peer review process, we accepted 62 articles with high quality for the MUE 2013 proceedings, published by Springer. All submitted papers have undergone blind reviews by at least two reviewers from the technical program committee, which consists of leading researchers around the globe. Without their hard work, achieving such a high-quality proceeding would not have been possible. We take this opportunity to thank them for their great support and cooperation. We would like to sincerely thank the following invited speaker who kindly accepted our invitations, and, in this way, helped to meet the objectives of the conference: Prof. Hui-Huang Hsu, Tamkang University, Taiwan. Finally, we would like to thank all of you for your participation in our conference, and also thank all the authors, reviewers, and organizing committee members. Thank you and enjoy the conference!

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Zheng-Jun Zha, National University of Singapore, Singapore
Zhu Li, Samsung Telecom America, USA

Message from ATACS-2013 Workshop Chair

Welcome to the Advanced Technologies and Applications for Cloud Computing and Sensor Networks (ATACS-2013), which will be held from May 9 to 11, 2013 in Seoul, Korea.

The main objective of this workshop is to share information on new and innovative research related to advanced technologies and applications in the areas of cloud computing and sensor networks. Many advanced techniques and applications in these two areas have been developed in the past few years. Sensor networks are becoming increasingly large and produce vast amounts of raw sensing data, which cannot be easily processed, analyzed, or stored using conventional computing systems. Cloud computing is one promising technique of efficiently processing these sensing data to create useful services and applications. The convergence of cloud computing and sensor networks requires new and innovative infrastructure, middleware, designs, protocols, services, and applications. ATACS-2013 will bring together researchers and practitioners interested in both the technical and applied aspects of Advanced Techniques and Application for Cloud computing and Sensor networks. Furthermore, we expect that the ATACS-2013 and its publications will be a trigger for further related research and technology improvements in this important subject.

ATACS-2013 contains high quality research papers submitted by researchers from all over the world. Each submitted paper was peer-reviewed by reviewers who are experts in the subject area of the paper. Based on the review results, the Program Committee accepted eight papers.
I hope that you will enjoy the technical programs as well as the social activities
during ATACS-2013. I would like to send our sincere appreciation to all of the
Organizing and Program Committees who contributed directly to ATACS-2013.
Finally, we special thank all the authors and participants for their contributions to
make this workshop a grand success.

Joon-Min Gil
Catholic University of Daegu
ATACS-2013 Workshop Chair

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Message from PSSI-2013 Workshop Chair

The organizing committee of the FTRA International Workshop on Pervasive Services, Systems and Intelligence (PSSI 2013) would like to welcome all of you to join the workshop as well as the FTRA MUE 2013. Advances in information and communications technology (ICT) have presented a dramatic growth in merging the boundaries between physical space and cyberspace, and go further to improve mankind’s daily life. One typical instance is the use of smartphones. The modern smartphone is equipped with a variety of sensors that are used to collect activities, locations, and situations of its user continuously and provide immediate help accordingly. Some commercial products (e.g., smart house, etc.) also demonstrate the feasibility of comprehensive supports by deploying a rapidly growing number of sensors (or intelligent objects) into our living environments. These developments are collectively best characterized as ubiquitous service that promises to enhance awareness of the cyber, physical, and social contexts. As such, researchers (and companies as well) tend to provide tailored and precise solutions (e.g., services, supports, etc.) wherever and whenever human beings are active according to individuals’ contexts. Making technology usable by and useful to, via the ubiquitous services and correlated techniques, humans in ways that were previously unimaginable has become a challenging issue to explore the picture of technology in the next era.

This workshop aims at providing a forum to discuss problems, studies, practices, and issues regarding the emerging trend of pervasive computing. Researchers are encouraged to share achievements, experiments, and ideas with international participants, and furthermore, look forward to map out the research directions and collaboration in the future.

With an amount of submissions (13 in exact), the organizing chairs decided to accept six of them based on the paper quality and the relevancy (acceptance rate at 46 %). These papers are from Canada, China, and Taiwan. Each paper was reviewed by at least three program committee members and discussed by the organizing chairs before acceptance.

We would like to thank three FTRA Workshop Chair, Young-Gab Kim from Korea University, Korea for the support and coordination. We thank all authors for submitting their works to the workshop. We also appreciate the program committee members for their efforts in reviewing the papers. Finally, we sincerely welcome all participants to join the discussion during the workshop.

James J. Park
Neil Y. Yen
Workshop Co-Chairs
FTRA International Workshop on Pervasive Services, Systems and Intelligence (PSSI-13)

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