Preface

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Biographical notes: Jong Hyuk Park received his PhD in Graduate School of Information Security from Korea University, Korea. From 2002 to 2007, he had been a Research Scientist of R&D Institute, Hanwha S&C Co., Ltd., Korea. From 2007 to 2009, he had been a Professor at the Department of Computer Science and Engineering, Kyungnam University, Korea. He is currently a Professor at the Department of Computer Science and Engineering, Seoul National University of Technology, Korea. He is the Editor-in-Chief (EiC) of *International Journal of Information Technology, Communications and Convergence* (*IJITCC*), InderScience. He was the EiCs of the *International Journal of Multimedia and Ubiquitous Engineering* (*IJMUE*) and the *International Journal of Smart Home* (*IJSH*). He is an associate editor/editor of 14 international journals including eight journals indexed by SCI(E). His research interests include security and digital forensics, ubiquitous and pervasive computing, context awareness, multimedia services, etc.

Jong-Hyouk Lee received his PhD from Sungkyunkwan University, Korea. He is developing efficient secure communications for NEMO-based vehicular networks in the project-team IMARA, INRIA, France. He is currently involved in standardisation activities at ISO TC204 WG16 (ISO 16788 'IPv6 Networking Security' and ISO 16789 'IPv6 Networking Optimisation') and ETSI TC ITS. His research interests include mobility management, security, and performance analysis based on protocol operations for next-generation wireless mobile and vehicular networks. He has twice received Excellent Research Awards from Department of Electrical and Computer Engineering, Sungkyunkwan University.

The *International Journal of Information Technology, Communications and Convergence* (*IJITCC*), which aims at being a high-quality peer-reviewed international journal featuring innovative scientific articles covering all aspects of information technology, communications, and convergence, releases its fourth issue of the first year with feature six articles.

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This issue starts with the article entitled 'Leveraging the modelling of return on investment for grid computing'. This article presents a generic model of the return on investment (ROI) for grid computing. The model help companies which do not have much experience in the adoption of grid computing for their commercial business with grid computing, but want to do it to gain competitive advantage.

The second article entitled 'Design space exploration for low-power channel decoder in embedded LDPC-H.264 joint decoding architecture' introduces a low-power design scheme that minimises energy consumption using joint source decoding and dynamic voltage and frequency scaling without significant loss in video quality. Authors of this article propose a near-optimal configuration search method and present simulation results showing the proposed method's efficient resource utilisation to save power.

The article entitled 'A comparative analysis of media processing component implementations for the Brazilian digital TV middleware' presents evaluation results of two media processing implementations for Brazilian digital TV system. Authors evaluate them with open-source libraries, i.e., libVLC and xine-lib, and analyse performance results in terms of memory usage and CPU load.

The article entitled 'Two fast multi-point search algorithms for high quality motion estimation in high resolution videos' presents two algorithms for high quality fast motion estimation in video coding. The implementation and evaluation results are also presented. The algorithms are analysed and compared with existing algorithms in ten HD 1080p test video sequences.

The article entitled 'Secure toll collection in VANETs' introduces a new payment process based on a blinded coin. The proposed payment process provides mutual authentication between an infrastructure and a vehicle and anonymity of the vehicle.

Last but not least, the article entitled 'Vertical datum and coordinate systems in Jordan' presents a practical method for Jordanian datums transformation. Those can be directly used for a combination of local and global heights information to improve GPS measurement results. Carried work has been used with software developed by authors and available for no charge.

We believe that these six articles have the good quality and relevance that we expect for developing *IJITCC*. Finally, we would like to thank all authors, reviewers, and members of the editorial board of *IJITCC*.