Editorial

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Biographical notes: Yanghoon Kim is a Professor at Far East University. He received his doctoral degree in the Computer Engineering at the Daejin University, Korea in 2011. He has published many research papers in international journal and conference. His areas of concern are software engineering, system analysis and design, computer security. He has been serve as program committee for many international conferences and workshops; FutureTech, WCC, CSA, PlatCon and so on. His research interests include issues related to security management and culture in Convergence Environment.

Wonhyung Park received his PhD degree in Department of Information Security from the Kyonggi University, South Korea, in 2009. Currently, he is an Associate Professor in Department of Cyber Security, Far East University, South Korea. He co-authored more than 50 technical papers in the area of information security. Also, he has been a reviewer for international journal (*Computer Journal*) of Oxford Univ. Press and IEEE International Conference (ICISA 2011, ICISA 2010).

Service-oriented architecture (SOA) is a flexible set of design principles used during the phases of systems development and integration in computing, and a system based on SOA architecture will provide a loosely integrated suite of services that can be used within multiple separate systems from several business domains. Recently, as SOA is having a substantial impact on the development of software architecture, many architectures/systems are being developed and designed by utilising the SOA-based style.

Although some progress has been made in several aspects regarding various issues including assessment concerns, there still exists the need for much research addressing SOA-based software architecture in terms of design, development and operation.

This special issue aims at bringing together researchers and practitioners with the common objective of developing SOA-based software architecture and methods into a mature discipline with both solid scientific foundations and mature software engineering development methodologies. In particular, we encourage work and discussions addressing what SOA-based software architecture still needs in order to achieve its original goal. Papers on practical as well as theoretical topics and problems are welcome.

More specifically, the paper entitled 'Investigating radio-frequency identification usage behaviours and organisational performance according to factors of user perception' by Ling-Lang Tang, Ya-wen Chan and Sheng-Lun Shen. The paper entitled 'A study on medical information leakage protection to construct a trustworthy medical service

oriented architecture in IoT environment: case study of medical tour service in South Korea' by Hangbae Chang and Gwangmin Park. The paper entitled 'A position revision method by path-loss factor in wireless sensor node deployment' by Myungnam Bae, Jaehak Yu, Inhwan Lee and Yangsun Lee. The paper entitled 'SaaS level database integration in cloud environment through database as a service' by Trushna Parida, Sanjukta Pal and Anirban Sarkar. The paper entitled 'Feature models as service contracts in service oriented architecture' by Akram Kamoun, Mohamed Hadj Kacem, Ahmed Hadj Kacem and Khalil Drira. The paper entitled 'Identity evaluation of moving vehicles tracking using hue and slope value on wireless sensor network' Ki-Hong Park and Yoon-Ho Kim. The paper entitled 'The five-year effects of physical activity and sedentary behaviour on chronic disease morbidity of Chinese adults' by Qing Wei. The paper entitled 'A study on the computational thinking-based SW education and problem solving related procedures' by Jungin Kwon and Chulki Jeong. The paper entitled 'Discovering objects and services in context-aware IoT environments' by Wei Wang, Kevin Lee, David Murray and Jian Guo. The paper entitled 'Analysing prior research to improve business performance in the IoT industry' by Soo-Young Kim, Gyu-Don Lee and Sang-Jin Lee. The paper entitled 'Knowledge-based service oriented architecture for automotive product development: South East Asia scenario' by A.M. Jakin, M.N.M. Fakir and F.R.M. Romlay.

Eventually, we would like to extend our sincere appreciation to all the authors for their priceless dedication and also to the referees for their support and hard work for reviewing the papers in a timely manner despite of busyness. We firmly believe that the accepted papers would be a meaningful contribution to researchers, students, and practitioners studying this field of 'Service-oriented software architecture and assessment in the future IoT environment'.