Keynote Speakers

2018 International Conference on Information Science and System
Jeju Island, South Korea April 27-29, 2018

Prof. Guo Song

The Hong Kong Polytechnic University, Hong Kong

Song Guo received his Ph.D. in computer science from University of Ottawa. He is currently a full professor at Department of Computing, The Hong Kong Polytechnic University. Prior to joining PolyU, he was a full professor with the University of Aizu, Japan. His research interests are mainly in the areas of cloud and green computing, big data, wireless networks, and cyber-physical systems. He has published over 300 conference and journal papers in these areas and received multiple best paper awards from IEEE/ACM conferences. His research has been sponsored by JSPS, JST, MIC, NSF, NSFC, and industrial companies. Dr. Guo has served as an editor of several journals, including IEEE Transactions on Parallel and Distributed Systems (2011-2015), IEEE Transactions on Emerging Topics in Computing (2013-), IEEE Transactions on Green Communications and Networking (2016-), IEEE Communications Magazine (2015-), and Wireless Networks (2013-). He has been actively participating in international conferences as general chair and TPC chair. He is a senior member of IEEE, a senior member of ACM, and an IEEE Communications Society Distinguished Lecturer.

Prof. Dong Hwa Kim

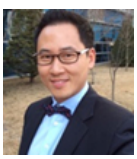
Hanbat National University, South Korea

Dr. Dong Hwa Kim received Ph.D from Ajou University in Korea and also got Ph.D from Dept. of Computational Intelligence and Systems Science, TIT (Tokyo Institute of Technology, K. Hirota Lab.), Tokyo, Japan.

He has experience in many areas such as Visiting Professor, Mechanical, Optic, Engineering Informatics, Budapest University of Technology and Economic (March 20, 2012-2013), President, Korea Institute HuCARE (President of Hu-CARE (Human-Centered Advanced Technology Research/Education, 2009 –), EU-FP NCP (ICT) in Korea (Nov. 2009-), Korea Atomic Energy Research Institute (Nov., 1977-March, 1993), President, Daedeok Korea-India Forum (March 1, 2010 –), Vice-president of the recognition board of the world congress of arts, sciences and communications, IBC (Sept. 1, 2007, UK), Co-editor, Japan Society for Fuzzy Theory and Intelligent Informatics, executive committees (June 2, 2007 -2009), Co-editor, Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII, Fujii press, Japan (2006-), Director of National Science Foundation (2006-2008).

He wrote many columns about science & technology strategy and policy in major newspaper in Korea. He also had ever have lecture and keynote speaker in over 100 University and conference or forum over the world. He was Book Author in Hybrid Evolutionary Algorithms (Computational Intelligence 75), Springer, Germany, 2007, and published 200 papers in international Journal and awards 2000 Outstanding Intellectuals of the 21st Century, Top 100 Engineers 2008 (UK), International Einstein Award for Scientific achievement.

He got also best innovation award from Hankook Illbo (Korea major daily newspaper) on 2009. He is now working at Hanbat National University (2009 –).



Prof. Franklin Bien

Ulsan National Institute of Science and Technology, South Korea

Professor Franklin Bien received the B.S. degree from Yonsei University in 1997.

He received his M.S. and Ph.D. degrees from the Georgia Institute of Technology at Atlanta, GA in 2000 and 2006 respectively. Dr. Bien's heritage roots from Dr. Joy Laskar. This

also means Dr. Bien's heritage roots from a Nobel laureate and the father of 'transistor', Dr. John Bardeen as you can see from the 'People' tab.

Prior to joining UNIST in 2009, Dr. Franklin Bien was with Staccato Communications, San Diego, CA as a Senior IC Design Engineer working on analog/mixed-signal IC and RF front-end blocks for Ultra-Wideband (UWB) products such as Wireless-USB.

Before working at Staccato, Dr. Bien was with Agilent Technologies and Quellan Inc., developing transceiver ICs for enterprise segments that improve the speed and reach of communication channels in consumer, broadcast, enterprise and computing markets.

In the early stage of his career including the Ph.D. work, Dr. Bien's research interests included signal integrity improvement with alternate modulation schemes, cross-talk noise cancellation, and equalization techniques for 10+Gb/sec broadband communication applications. Dr. Bien's research and design experiences includes CMOS RF front-end circuits for UWB wireless communications, adaptive circuits for wireless power transfer (WPT) applications, and electronics design for future automobiles and electric vehicles. For more, please visit http://bicdl.unist.ac.kr/UNIST_ECE_Franklin_Bien/Home.html.

Invited Speaker

Prof. Vitaliy Mezhuyev
University Malaysia Pahang, Malaysia

Vitaliy Mezhuyev received BS and MS degrees in physics and informatics from Berdyansk State Pedagogical University (BSPU), Ukraine, in 1997. In 2002, he received a PhD in Physics Instruction from Kiev National Pedagogical University and, in 2012, a ScD in Information Technologies from Odessa National Technical University, Ukraine. From 2004 until 2014, he was a Head of the Department of Informatics and Software Engineering at BSPU, Ukraine. Now he is Professor at Faculty of Computer Systems and Software Engineering in University Malaysia Pahang, Head of the Software Engineering Research Group. During his career, Vitaliy Mezhuyev participated in the multiple international scientific and industrial projects, devoted to formal modelling, design, and development of advanced software systems as a network-centric real-time operating system; IDEs for the automation of development of parallel real-time applications; tools for specification, verification and validation of software products; visual environment for metamaterials modelling and others. His current research interests include formal methods, metamodeling, safety modelling and verification of hybrid software systems, and the design of cyber-physical systems.

Speech Title: Metamodelling Approach for Modelling Domains having Different Mathematical Structure

Abstract: The methodology of Domain Specific Mathematical Modelling (DSMM), which implementation aims to overcome the shortcomings of an existing methodology of Domain-Specific Modelling is proposed. DSMM introduces an additional level of the metamodelling architecture, which allows us to take into account the mathematical structure of the modelled domains, and to apply mathematical operations for the development of new effective methods for solving domain-specific problems. The concepts of the metamodel, metamodelling, levels of the metamodelling architecture and the formal semantics of the DSMM metamodels are defined. Examples of DSMM application for the development of metamodels and their use for the domains modelling are discussed.

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Contact us

Kenny Wong

Email: iciss@iacsit.net

Tel: +86-28-86528758 (10:00--18:00, Monday to Friday)

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