
Editorial

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Biographical notes: Shi-Jinn Horng received his PhD in Computer Science from National Tsing Hua University, in 1989. He is currently the Chair Professor from the Department of Computer Science and Information Engineering, National Taiwan University of Science and Technology. He has published more than 200 research papers and received many awards especially the Distinguished Research Award from the National Science Council in Taiwan in 2004. His research interests include deep learning, biometric recognition, image processing, and information security.

Tranrui Li received his PhD from the Southwest Jiaotong University, China in 2002. He was a Postdoctoral Researcher at Belgian Nuclear Research Centre (SCK CEN), Belgium from 2005–2006. He is presently a Professor and Director of the Key Lab of Cloud Computing and Intelligent Technique of Sichuan Province, Southwest Jiaotong University, China. Since 2000, he has co-edited six books, ten special issues of international journals, 18 proceedings, received 12 Chinese invention patents and published over 360 research papers. He is an IRSS Fellow and Steering Committee Chair (2019–2020), and a senior member of ACM and IEEE.

Hong Shen is a Professor (Chair) of Computer Science in the School of Computer Science, University of Adelaide. He received his BEng degree from Beijing University of Science and Technology, MEng degree from University of Science and Technology of China, PRC and PhD degrees from Abo Akademi University, Finland, all in Computer Science. He received numerous honours, and holds the titles of China National Endorsed Expert and Chinese Academy of Sciences Hundred Talents. He is currently a specially-appointed professor in Sun Yat-sen University. His main research interests in parallel and distributed computing, and has published more than 300 papers. He has received over ten research grants. He has been an editor/associate editor for seven international journals. He was the co-recipient of National Education Commission Science and Technology Progress Award and Chinese Academy of Sciences Natural Sciences Awards.

This special issue is focusing on ‘Architectures, algorithms, securities and programming for big data processing and deep learning’ which is based on the PAAP’18 conference. All submitted papers are extended version of the papers which were accepted in PAAP’18 conference. After receiving several decades of submitted papers, only six papers were accepted after at least three independent

reviewers were assigned to each paper. They are summarised in the following.

The first paper is to design and implement version management for maintaining data integrity for important files contained in cloud systems. The second paper is to propose a novel minimisation of low-resolution (M-low) scheduling algorithm, which adjusts the video resolution

and optimises the quality of experience (QoE) indices in a DASH streaming service. The third paper is to propose a novel gesture recognition framework based on tri-axis accelerometer using Gabor filters mounted on a cell phone. The fourth paper is to design a specific check algorithm which can verify whether the target plaintext is identical to the underlying plaintext of the ciphertext with the public key. The fifth paper is to use deep candlestick predictor (DCP) to forecast the price movements by reading the candlestick charts instead of reading the considerable body of numerical data from financial reports. The last paper is to use the blockchain technologies to maintain the health records of each person through IoT devices.

We would like to take this opportunity to thank all contributors to this special issue. We would also like to thank the Editor in Chief of *IJAHUC*, Prof. Yuh-Shyan Chen for his guidance and support.

Finally, we also thank to *IJAHUC* for their technical co-sponsorship and the authors for their excellent papers contained herein.