
Preface

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Biographical notes: Shi-Jinn Horng received his PhD in Computer Science from the National Tsing Hua University, Taiwan, in 1989. He was the Dean of the College of Electrical Engineering and Computer Science, National United University, Taiwan. Currently, he is a Chair Professor in the Department of Computer Science and Information Engineering, NTUST. He also worked as a PMTS at the AT&T Bell Laboratories. His research interests include deep learning, biometric recognition and information security. He has published more than 300 research papers and received many awards, especially, the Distinguished Research Award from the National Science Council in Taiwan.

Yi Pan is currently a Regents' Professor and the Chair of Computer Science at the Georgia State University, USA. He has served as the Associate Dean and Chair of the Biology Department during 2013–2017 and Chair of Computer Science during 2006–2013. He received his PhD in Computer Science from the University of Pittsburgh, USA, in 1991. His research interests include parallel and cloud computing, big data and bioinformatics. He has published more than 400 papers. In addition, he has edited/authored 43 books. He has served as the editor-in-chief or an editorial board member for 20 journals.

Hong Shen is a Professor (Chair) of Computer Science in the School of Computer Science, University of Adelaide. He received his PhD in Computer Science from the Abo Akademi University, Finland. He has extensive academic experience internationally including ten years' service at the Griffith University, Australia, from a Lecturer to Professor and five years' service at Japan Advanced Institute of Science and Technology (JAIST) as Professor and Chair of Computer Networks Laboratory. He received numerous honours, and holds the titles of a China National Endorsed Expert and Chinese Academy of Sciences Hundred Talents. His main research interests are in parallel and distributed computing, algorithms, high performance networks, privacy and security, data mining and multimedia systems, and he has published more than 300 papers, including over 100 papers in major journals such as a variety of the IEEE and ACM Transactions.

Muhammad Khurram Khan is currently working as a Full Professor at the Center of Excellence in Information Assurance, King Saud University, Saudi Arabia. He is the Editor-in-Chief of *Telecommunication Systems* published by Springer-Verlag since 1993 with an impact factor of 1.707 (JCR 2019). Furthermore, he is an editor/associate editor of several journals/magazines, including *IEEE Communications Surveys & Tutorials*, *IEEE Communications Magazine*, *IEEE IoT Journal*, *IEEE Transactions on Consumer Electronics*, *Journal of Network & Computer Applications*, *IEEE Access*, *IEEE Consumer Electronics Magazine*, *Journal of Medical Systems*, *PLOS ONE*, *Electronic Commerce Research*, etc.

This special issue on ‘Parallel computations and applications’, is to provide a forum for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of parallel and distributed computing. We are inviting those papers accepted in the 18th International Conference on Parallel and Distributed Computing, Applications and Technologies.

Topics include, but are not limited to, the following four major research fields.

- Networking and architectures: such as interconnection networks, parallel/distributed architectures, etc.

- Software systems and technologies: such as internet computing, parallelising compilers, etc.
- Algorithms and applications: such as parallel/distributed algorithms, reconfigurable high-performance computing, etc.
- Security and privacy: such as access control and authorisation, privacy preserving computation, etc.

The papers in this special issue underwent a second peer-review process. Each paper was reviewed by at least three reviewers and all accepted papers fall into one of the listed research categories.