
Editorial

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Biographical notes: S. Smys received ME and PhD all in Wireless Communication and Networking from Anna University and Karunya University, India. His main area of research activity is localisation and routing architecture in wireless networks. He has been the General chair, Session Chair, TPC Chair and Panelist in several conferences. He serves as an Associate Editor of *Computers and Electrical Engineering (C&EE) Journal*, Elsevier and Guest Editor of *MONET Journal*, Springer. He has been serving as Organising Chair and Program Chair of several international conferences, and in the Program Committees of several international conferences.

Meng Joo is currently a Full Professor in Electrical and Electronic Engineering, Nanyang Technological University, Singapore. He served as the Founding Director of Renaissance Engineering Program and an elected member of the NTU Advisory Board and from 2009 to 2012. He served as a member of the NTU Senate Steering Committee from 2010 to 2012. He has published 18 book chapters and more than 500 refereed journal and conference papers in his research areas of interest. Currently, Professor Er serves as the Editor-in-Chief of *Transactions on Machine Learning and Artificial Intelligence* and the *International Journal of Electrical and Electronic Engineering and Telecommunications*. He also serves an Area Editor of *International Journal of Intelligent Systems Science* and an Associate Editor of 11 refereed international journals.

Pavel Lafata received MSc in 2007 and PhD in 2011 from the Department of Telecommunication Engineering, Faculty of Electrical Engineering, Czech Technical University in Prague (CTU in Prague). He is now an Assistant Professor at the Department of Telecommunication Engineering of the CTU in Prague. Since 2007, he has been actively cooperating with several leading European manufacturers of telecommunication cables and optical network components performing field and laboratory testing of their products as well as consulting further research in this area. Some of his ideas about advanced methods for modelling of far-end crosstalk in multi-quad and multi-pair metallic cables were published in leading journals and conferences including *IEEE Communication Letters Journal*, etc.

Medical imaging and its applications have revolutionised healthcare informatics by entering the arenas of prevention and therapy beyond the field of diagnostics and enhances clinical, operational, and financial value and significantly contribute to lowering costs in healthcare on a global scale. Different medical imaging modalities used for extraction of information from MRI, CT scan, ultrasound, X-ray, thermal and fusion of its techniques are the ultimate focus of this issue. Driven by the need for higher image quality, medical imaging applications require highest performance including advanced integrated input/output and powerful data processing, more accurate analytics, sophisticated 3D visualisations, and efficient workflows.

This special issue aims to address the various scope on trends in medical imaging and health informatics and the papers contributed high-quality theoretical and practical works. The set of papers for this special issue widely grouped into two categories. The first category of papers under mathematical concepts like mathematical investigation of aetiology and pathogenesis and modelling on the effect of high-intensity magnetic fields on pulsatile blood flow in human arteries. The second category of papers deals with machine intelligence in stroke prediction, enhanced decision tree algorithm using genetic algorithm for heart disease prediction and texture analysis of breast thermograms using neighbourhood grey tone difference matrix.

The guest editors would like to express their deep gratitude to all the authors who have submitted their valuable contributions and to the numerous and highly qualified anonymous reviewers. We think that the selected contributions, which represent the current state of the art in the field, will be of great interest to the medical imaging. In addition, we would like to thank the Inderscience publication staff members for their continuous support and dedication. We particularly appreciate the relentless support and encouragement granted to us by Prof. Yi Pan, the Editor-in-Chief of the *International Journal of Bioinformatics Research and Applications*.