Editorial

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Biographical notes: R. Varatharajan received his BE, ME and PhD degrees all in Electronics and Communication Engineering from Anna University and Bharath University, India. His main area of research activity is medical image processing, wireless networks and VLSI physical design. He has published many research articles in refereed journals. He is a member of IEEE, IACSIT, IAENG, SCIEI and ISTE wireless research group. Currently he is working as an Associate Professor in the Department of Electronics and Communication Engineering at Sri Ramanujar Engineering College, Chennai.

M. Sundhararajan is Dean-Research at Bharath University, India. He has completed his Bachelor degree in Electronics and Communication from Bharathidasan University, Masters of Science (Research) from Birla Institute of Technology and PhD from Bharath University, India. He is senior member of IEEE. He has been serving as Organising Chair and Program Chair of IEEE ICPACT and ICAMMA.

Hameem Shanavas is Associate Professor at Department of ECE, M.V.J. College of Engineering, Bangalore, India. He has completed his Bachelor degree in Electronics and Communication (2006), Masters in VLSI Design (2008), Masters in Business Administration (2009) and PhD from Anna University, Chennai, India. He worked for various institutions in electronics and communication department around many states in India. He has published 35 journal papers and attended 30 conferences at national and international level. He is the member of professional bodies like ISECE, IACSIT, IAEng., AASRC, ISTE, UACEE, IRED. His research areas are VLSI physical design and testing, low power, DSP implementations and CAD algorithms.

It is a great pleasure for us to organise this special issue in *International Journal of Biomedical Engineering and Technology* published by Inderscience Publishers. In recent years, we have seen increasing demand in the world on developing intelligent and efficient health informatics system to enhance the quality of human life. In this regard, machine learning algorithms play a significant role in the development of medical and biological applications.

Recent technological approaches have promote the advancement of complicated biomedical systems, including refined innovative medical imaging equipment, biosensor networks, human–computer interaction systems and wearable health-monitoring systems encouraging an important enhance in the aspect of provided healthcare services. The huge amount and the diversity of the stored biomedical data, the creation and generation of biomedical learning sources, and the event to apply large processing power make computerised biomedical data investigation increasingly essential in healthcare and place biomedical data mining in a different position to much impact patient care.

The scope of this special issue focuses on integrating the recent advances in the field of medical applications. The review process for all papers was rigorous and thorough, including peer-reviewing from at least three experts for each paper. A total of 117 papers were submitted as special issue and after a stringent peer-review process, only 14 papers were selected for this special issue. Specifically, this special issue discusses the various stages of biomedical problems such as biomedical signal processing, biological image computing, pattern recognition, visualisation and interaction, classification and brain–computer interface. It is wonderful to introduce these special issue papers to the global researchers through *IJBET*.

We would like to convey our sincere thanks to all the researchers for submitting their research work to our special issue and a special note of thanks to the reviewers, whose efforts have allowed the selection of good quality papers. We are grateful to the Editor in Chief Dr. Prof. Nilmini Wickramasinghe for continuous support. We personally believe that this special issue will provide the reader with a broad overview on machine learning techniques for the development of medical science for a better tomorrow.