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. He is an Associate Editor for *Computers and Electrical Engineering*, Elsevier and *Journal of Medical Imaging and Heath informatics*, American Scientific Publishers. He is a guest editor for sustainable computing, cluster computing, ambient intelligent and humanized computing and he is acting as a leading guest editor for more than ten SCI indexed journals. His main areas of research activity is medical image processing, wireless networks, network security and green engineering. He has served as a reviewer for Springer, Inderscience and Elsevier journals. He has published many research articles in refereed journals like Elsevier and Springer. He is a member of IEEE, IACSIT, IAENG, SCIEI and ISTE wireless research group. He has been serving as organizing chair and program chair of several international conferences and in the program committees of several international conferences. Currently, he is working as an Associate Professor in the Department of Electronics and Communication Engineering at Sri Ramanujar Engineering College, Chennai, India.

M. Sundhararajan is currently working as the Director of Research and Development. Under his guidance, more than 20 PhD scholars completed their respective PhD in various universities. His research interests include image processing, artificial intelligence and big data.

Xiao-Zhi Gao received his DSc (Tech.) degree from the Helsinki University of Technology (now Aalto University), Finland in 1999. In January 2004, he was appointed as a Docent (Adjunct Professor) at the same university. He is currently working as a Professor of Data Science at the University of Eastern Finland, Finland. He has published more than 350 technical papers on refereed journals and international conferences, and his current Google Scholar H-index is 27. His research interests are nature-inspired computing methods with their applications in optimization, data mining, machine learning, control, signal processing, and industrial electronics.

It is our pleasure to serve as guest editors of this special issue on artificial intelligent techniques applied for the study of engineering applications of *International Journal of Reasoning-based Intelligent Systems* (*IJRIS*). Artificial intelligence (AI) techniques are now being used by the practicing to solve a wide range of tractable and intractable problems. Practitioners of AI focused on problems and algorithms abstracted from the real world.

This special issue aims to bring, for academics as well as industrial practitioners, a set of articles discussing the recent topics on engineering applications, including knowledge-based representation, automated reasoning and interference, computer vision and machine learning, etc. There are 56 submissions of this special issue, and we feature 12 selected papers with high quality.

Acknowledgements