
Editorial

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Biographical notes: Arasu Pasumpon Pandian has received his PhD in the Faculty of Information and Communication Engineering under Anna University, Chennai, TN, India in 2013. He received his graduation and post-graduation degree in Computer Science and Engineering from PSG College of Technology, Coimbatore, TN, India in 1993 and 2006, respectively. He is currently working as a Professor in the Computer Science and Engineering Department of KGiSL Institute of Engineering and Technology, Coimbatore, TN, India. He has 23 years of experience in teaching, research and IT industry. He has published more than ten research articles in international journals. His research interest includes, image processing and coding, image fusion, soft computing and swarm intelligence.

Farhad Memarzadeh is the Director, Division of Technical Resources (DTR) at the National Institutes of Health (NIH). He has been the Principal Investigator on many groundbreaking research and chaired several American National Standards committee. He is a Lecturer at the Harvard School of Public Health. He authored four books and over 70 scientific papers. He has been a keynote/guest speaker at over 60 scientific conferences. Some of his awards include the following; eight NIH Director's and five Merit Awards, three NSPE-Top Ten Engineer of the year award, six literary awards for outstanding scientific publications, two Public Health Service Engineer of the Year award, 2015 nominee for Samuel J. Heyman Service to America Medals, 2010 Howard Fawcett Award, and several commendations from the US Senate.

Intelligent computation is most prominent technology in every sector and it provides the huge prospects in all computational fields. Intelligent computation system is derived from the soft computing and it provides the exotic solutions for optimisation issues and complexity in decision making process. The most trending techniques such as neural networks, fuzzy intelligence, natural language processing, machine learning, optimisation algorithms and knowledge based intelligent systems helps to overcome the theoretical and practical issues in intelligent computational systems.

This special issue endeavours to inspiring researchers to work for the melioration of human mankind with the factual analysis in the research areas. The first paper 'Enhancement of enterprise resource planning system by analysing feasibility and critical factors' is used to determine the organisational needs and analysis of various adoption behaviour of organisation. Second paper 'Best-case, worst-case and mean integral-square-errors for reduction of continuous interval systems' designed for model reduction of continuous interval systems and it measures the goodness. Third paper 'Residential load scheduling considering maximum demand using binary particle swarm optimisation' developed for automatically schedule the consumer's load and also it helps to minimise the cost with different constraints.

Next paper 'Scalable information retrieval system in semantic web by query expansion and ontological-based LSA ranking similarity measurement' concentrated on the hot topics such as ontological representation, query expansion, similarity measurement and ranking for the better improvement in the information retrieval systems. In the 'Multi-objective multi-join query optimisation using modified grey wolf optimisation' proposed a multi-objective task scheduling algorithm utilising oppositional artificial bee colony algorithm (OABC) which is based on oppositional strategy, employee bee, onlooker bee, scout bee and suitable fitness function for the corresponding task.

Another paper entitled '2ⁿ factorial design of view of thermal images for detection correlation coefficient variants factors of object for environmental issues' designed to finding various angle object and identifying the correlation coefficient factors for capture image of front, back, right, left, bottom and top view of object. In the 'Speech-based automatic personality trait prediction analysis' which is based on modelling the relationship between speech signal and personality traits and it finds suitable feature for various speaker traits. Next paper 'Factors influencing effectiveness of testing applications in cloud using regression testing: a statistical analysis' focuses on empirical investigation through a case study and it used two different domains in order to analyse the factors influences/significant effectiveness of testing. In 'Nature of life and survivability of women and men with breast cancer' used to inspect the hindrances, and manageability of a practice intercession program with recently diagnosed breast cancer and it helps to enhance the breast cancer survival results.

Next paper entitled 'Multi-layer composites shielding for electromagnetic radiation protection' and this work provides the shielding solution in terms of using multi-layer pbO-SiO₂ coating using polyboron solution and it enhances the EMI shielding solution in all aspects. In 'Optimisation of training samples in recognition of overlapping speech and identification of speaker in a two speakers situation' proposed a technique for overlapping speech recognition integrated with firefly optimisation technique for clustering and selecting best relevant features. And the last paper 'Image classification using higher-order statistics-based ICA for NOAA multispectral satellite image' designed to reduce colour distortion and provides high resolution and visual quality and accurate information with good statistical parameter values.