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## Editorial

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**Bhagwan Das\***

Department of Electronic Engineering,  
Quaid-e-Awam University of Engineering, Science and Technology,  
Nawabshah, Sindh, 67450, Pakistan  
and

Universiti Tun Hussein Onn Malaysia,  
86400 Parit Raja, Johor, Malaysia  
Email: engr.bhagwandas@hotmail.com

\*Corresponding author

**Mohammad Faiz Liew Abdullah**

Department of Communication Engineering,  
Faculty of Electrical and Electronic Engineering,  
Universiti Tun Hussein Onn Malaysia,  
86400 Parit Raja, Johor, Malaysia  
Email: faiz@uthm.edu.my

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In recent years, there have been emerging needs for advances in computer aided technologies and algorithm design for industrial case studies. Various techniques are to be developed in various fields such as: optimisation technology, algorithms development, simulation technology, product lifecycle management, advanced manufacturing technology, CAD/CAPP/CAM/PLM/ERP/DNC/CAQ, data mining, P2P computing, ubiquitous and high-performance computing, green computing, artificial intelligence and machine learning, and others. Solutions to most of the engineering problems have become easier by application of computing engineering and technologies. This special issue is to bring together research work in the field of computer aided technologies and algorithm design which investigates the mathematical novel solutions, simulation and hardware applications as well as the future direction of this field that can benefit the mathematicians, computer scientist and engineers.

Our team has selected eight relevant papers, focusing on different aspects that provide a strong support on solutions to most of the engineering problems have become easier by application of computing engineering and technologies, while the authors represent institutions from countries, such as: Algeria, Malaysia, Pakistan and India.

The first paper is introducing the impact of the lossy image compression on the biometric system accuracy that paper defines a case study of hand biometrics.

The second paper looks into the extended infrastructure security scheme for multi-cloud systems with verifiable inter-server communication protocol that provides the application in cloud computing systems.

The third paper discussed the performance analysis of biorthogonal filter design using the lifting-based Scheme for medical image transmission. The paper gives detailed information about medical image application.

The fourth paper demonstrates design and development of the MOEMS-based accelerometer sensor using photonic crystal for vibration monitoring in automotive system. The paper is interesting to read as it defines the vibration monitoring using photonics.

The fifth paper is the most interesting one as authors discuss the application of environmental sustainable energy efficiency in ICT using dye sensitised solar power generating window'.

The sixth paper illustrates the empirical analysis of the statistical learning models. The models are designed based on cross-project defect prediction. The paper is very good and a guidance related to machine learning application is discussed.

The seventh paper is based on most advanced technology in today's perspective. It discussed the design and implementation of heterogeneous wireless network. The system offers the selection by combining GRA and VIKOR under fuzzy environment. The paper exhibit the integrated functionality of wireless network and fuzzy environment applications.

The last paper is based on one of the widely used algorithm for classification in machine learning, i.e., particle swarm optimisation. It demonstrates the parameter extraction of PSP MOSFET. The paper interestingly discussed the use of particle swarm optimisation in semiconductor electronics.

The managing editors of the special issue want to thank the Editor-in-Chief of *International Journal of Computer Aided Engineering and Technology*, Dr. Yan Luo, and all the reviewers and authors involved in this journal issue and last but not least to the publisher and her team.