Editorial

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Biographical notes: P. Venkata Krishna is a Professor at the School of Computing Science and Engineering, VIT University, Vellore, India. He received his BTech in Electronics and Communication Engineering from Sri Venkateswara University, Tirupathi, India, MTech in Computer Science and Engineering from REC, Calicut, India and his PhD from VIT University, Vellore, India. He has several years of experience working in the academia, research, teaching, consultancy, academic administration and project management roles. His current research interests include mobile and wireless systems, QoS and grid computing. He was the recipient of several academic and research awards.

Ezendu Ariwa is the Chair and Green Technology Specialist Expert for IEEE Consumer Electronics Chapter, UKRI. He is a Visiting Professor at the University of Lagos, Nigeria and Gulf University, Bahrain, Islamic University of Technology, Bangladesh and Karakurum International University, Pakistan and a Visiting Affiliate of the Green IT Observatory, RIMT University, Australia and ICT University, USA. He is also a Chartered Fellow of the CITP, FBCS, FIITT and FHEA, UK and a member of IEEE, ACM, UK Council for Healthcare Informatics (UKCHIP), the Elite Group of The British Computer Society (BCS), British Institute of Facilities Management and Fellow of Global Strategic Management, Inc., USA.

The present global economic situations and climate changes are forced to have the invention of green computing as a means of benchmarking energy consumption effectively and efficiently within cost effective domain. The rise of sea levels, high carbon emission and carbon footprints and concerns on the disposal of the computing equipment are the key drives towards green computing in order to achieve environmental friendly information and communication technology applications for domestic usage, business and industrial sectors in line with the United Nations, United Nations Development Projects, World Bank and OECD requirements for countries for 2020

agenda and compliance with the millennium development goals (MDG). Green computing is defined in various contexts, environmentally, socially and politically with respect to effective and efficient use of energy to achieve competitive advantage in terms energy-cost saving strategy, and reduction to carbon emission/footprints, recyclability, biodegradability, and minimal impact to the environment. The non-compliance to environmental issues, climate change indicators, efficiency related computer technologies, gave rise to the green computing agenda with respect to long term benefits and return on investment.

This special issue aims to bring together work from academia, research scholars, scientists, engineers, technologists, business entrepreneurs, practitioners, managers and policymakers responsible for delivering green technology (IS and IT) and digital enterprises for sustainability in order to achieve competitive advantage and cost savings in modern organisations in both industrial and business sectors. Prospective authors were invited to submit papers presenting new research related to the theory and practice of recent trends in computing, innovation, communication and information technologies, green technology, digital enterprise, corporate sustainability, e-waste disposal and globalisation.

The following topics of interest enabled many interested authors to submit their papers for due consideration.

- information systems development
- e-healthcare
- forensic informatics
- healthcare records management
- biomedical applications
- forensic finance
- bioinformatics
- biometric security
- data centres and energy efficiency
- enterprise business applications
- human-machine cooperation
- consumer electronics
- digital automotives
- corporate social responsibilities
- it and corporate governance
- sustainability and entrepreneurship
- carbon footprints
- facilities management
- healthcare informatics

- ecosystems
- financial engineering
- informatics finance
- environmental issues
- energy and sustainability
- e-agriculture and technology transfer
- social engineering
- ergonomics and benchmarking
- climate change
- renewable energy.

We received several manuscripts and each manuscript was reviewed by at lease three independent reviewers. A total seven manuscripts were finally selected for this special issue and the details of manuscripts are as follows:

1 'Using existing network infrastructure to estimate building occupancy and control plugged-in devices in user workspaces' by Ken Christensen, Ryan Melfi, Bruce Nordman, Ben Rosenblum and Raul Viera.

2 Green IT: sustainability by aligning business requirements with IT resource utilisation by Srikanth Subburaj, Siddhivinayak Kulkarni and Long Jia.

3 Studying the resistivity imaging of practical phantoms with common ground current injection technique in electrical impedance tomography by Tushar Kanti Bera and J. Nagaraju.

4 Instance driven clustering for the imputation of missing data in KDD by P. Ilango, K. Vijayakumar and M. Rajasekhara Babu.

5 BER reduction in signal receivers towards greening of digital communications by Amit Kumar Ahuja, Ram Chakka and P. Venkata Krishna.

6 No reference image quality assessment using blocked-based and frequency domain statistical features: a machine learning approach by Jayashri V. Bagade, Kulbir Singh and Yogesh H. Dandawate.

7 Securing multimedia colour imagery using multiple high dimensional chaos-based hybrid keys by Musheer Ahmad and Tanvir Ahmad.

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