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## Editorial

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**Biographical notes:** P. Venkata Krishna is currently a Professor at the Department of Computer Science and Engineering, Sri Padmavati Mahila Visvavidyalayam, Tirupati, India. He received his MTech in Computer Science and Engineering from REC, Calicut, India and he received his PhD degree 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 cloud computing. He has authored over 150 research papers in various national and international journals and conferences. He was the recipient of several academic and research awards.

Sumanth Yenduri received his Bachelor of Technology in Computer Science and Systems Engineering from Andhra University, India in 1999. He received his Master's degree in 2002 and PhD in Computer Science in 2005 from Louisiana State University, USA. He is currently working as an Associate Professor at Columbus State University. He has published over 50 articles in refereed international conferences and journals. Furthermore, he has published/contributed four books. His research interests include software process development, data imputation methods, software metrics, programming language paradigms, software tools/simulation and sensor networks. He has generated over \$1.0 million dollars in research funding.

Eunmi Choi is a Full Professor and the Chairperson of the School of Management Information Systems at Kookmin University, Korea, and received his PhD in Computer Science from Michigan State University, USA in 1997. Her current research interests include distributed information system, cloud computing, big data infra system, SW meta-modeling, and grid and cluster

computing. She has been active in research activities, such as the BK21 in u-business service model and platform and BK21 Plus, ITRC, and a number of research projects and papers.

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Big data presents a new paradigm that consists of volume of datasets which help in the development of new approaches in transforming science, engineering, medicine, healthcare, finance, business and many related application service domains. This special issue aims to bring together work from academia, research scholars, scientists, engineers, business entrepreneurs and policy makers responsible for delivering effective solutions in solving problems associated with big data systems architectures. This issue called for innovative and high-quality papers describing or demonstrating theory and practice of storing, accessing, searching, mining, processing and visualising in the context of intelligent systems development for big data. Authors were invited to submit papers presenting new research related to the theory and practice of big data in the context of the issue's topics of interest.

Suitable topics included, but were not limited to, the following:

- cloud computing techniques for big data
- big data as a service
- big data open platforms
- big data in mobile and pervasive computing
- algorithms and applications for big data
- management issues of social network big data
- models and languages for big data protection
- privacy-preserving big data analytics
- large-scale social media and recommendation systems
- big data for enterprise transformation
- network architectures to support big data analytics
- network and resource provisioning approaches
- software systems to support big data computing
- tools and technologies for deploying and managing big data
- parallel and distributed systems for big data storage and analysis
- methods and applications for big data processing and management.

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

- 1 ‘A firefly swarm approach for establishing new connections in social networks based on big data analytics’ by Raj and Dhinesh Babu.
- 2 ‘Load balancing in MapReduce on homogeneous and heterogeneous clusters: an in-depth review’, by Kargar and Vakili.
- 3 ‘Concurrent bandwidth scheduling for big data transfer over a dedicated channel’ by Zuo, Zhu and Wu.
- 4 ‘A novel Cp-Tree-based co-located classifier for big data analysis’, by Venkatesan, Arunkumar and Prabhavathy.
- 5 ‘Neighbourhood rough set model for knowledge acquisition using MapReduce’ by Hiremath, Chandra, Joy and Tripathy.
- 6 ‘Innovation in supply chains – solving the agency dilemma in supply networks by using industry 4.0 technologies’ by Maier, Korbel and Brem.
- 7 ‘Grid-based architecture for sharing distributed massive datasets’, by Bashir, Latiff and Aboalgasim.
- 8 ‘An integrated approach of feature selection and parameter optimisation of Kernel to enhance the performance of support vector machine’ by Sarojini.

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