Editorial

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Biographical notes: Anandakumar Haldorai is a Professor (Associate) and Research Head in Department of Computer Science and Engineering, Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India. He received his Master and PhD from PSG College of Technology under, Anna University, Chennai. His research areas include big data, cognitive radio networks, mobile communications and networking protocols. He has authored more than 75 research papers and seven books with reputed publishers such as Springer and IGI. He is served as Editor in Chief of Inderscience *IJISC*. He is senior member of IEEE, MIET, ACM and Fellow member in EAI research group.

Arulmurugan Ramu is a Professor in Department of Computer Science and Engineering, Presidency University, Bangalore, India. His research focuses on the automatic interpretation of images and related problems in machine learning and optimisation. His main research interest is in vision, particularly high-level visual recognition. He is author of more than 45 papers in major computer vision and machine learning conferences and journals. He is the recipient of the MTech and PhD degrees from Anna University, Chennai and the BTech degree in Information Technology from Arunai Engineering College, Tamilnadu, India. He is member of MIET, ACM and EAI research group.

Chee-Onn Chow received his Bachelor's of Engineering (Hons.) and Master's of Engineering Science from the University of Malaya, Malaysia in 1999 and 2001, respectively. He received his Doctorate of Engineering from the Tokai University, Japan in 2008. He joined the Department of Electrical Engineering

as a tutor in 1999, and subsequently been offered a Lecturer position in 2001. He is currently an Associate Professor in the same department since 2015. His research interests include various issues related to wireless communications. He is a Chartered Engineer (IET, UK), a Professor Engineer (BEM, Malaysia) and a senior members of IEEE.

This special issue brings together papers focusing on a wide range of topics relevant to the research and understanding of the role of enterprise network management technologies. The special issue includes a selection of articles submitted in the call for papers titled 'Big data innovation for sustainable intelligent computing'.

The theme of the special issue is 'big data innovation for sustainable and intelligent computing'. Intelligent system is the study and creation of self-learning technique that are based on artificial intelligence, machine learning, deep learning, pattern recognition, and natural language processing to simulate working of human brain. Research includes building a new class of system that can learn from experience and derive insights to unlock the value of big data.

The computational intelligence and sustainability is a broad field that aims to optimise our enterprise resources using methods from engineering, mathematics and computer science. Data intelligence techniques play a critical role towards sustainable computing. Recent advances in data management, data modelling, data analysis and artificial intelligence are finding its applications in energy-based network optimisation and thus making our environment more sustainable. The tremendous advancement in information and communication has led to the critical improvement in the efficiency and accuracy of contemporary data processing techniques. A huge increase in wireless sensor networks, internet of things, cloud computing, mobile/embedded computing, spatial/temporal data processing, and big data has evolved over the past decades creating novel opportunities and solutions.

Big data is a promising paradigm that is applied to datasets and its size is huge to be supported by common computing platforms to perform operations like data pre-processing and data management. The source of this huge datasets are mainly unstructured data such as social media, sensor data, mail messages, word-processing documents, audio or video files, collaboration software, or any instant messages. This enormous data require rapid processing of input and output, also it requires establishing trusted data processing in complex decision making systems.

Currently, varied technologies are being explored in order to support big data handling which includes massively parallel processing databases, scalable storage systems, and FOG computing platforms. Emerging research provides opportunities towards intelligent computing where big data plays a vital role. This allows all business applications to be more responsive and solve all challenges so far unanswered. This is a special issue which aims to express the emerging challenges prevailing in research of big data including its approaches, algorithms, hardware, and software that are mandatory for enterprise network management processing. We anticipate that the special issue will open new entrance for further research and technology improvements in this important area.

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