Editorial

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Biographical notes: Nagaraj Balakrishnan is working as a Principal, Rathinam Technical Campus, India. He received his ME and PhD from the Anna University and Karpagam University, in 2004 and 2012, respectively. His technical expertise and research interests include a control system, soft computing, and high-speed signal processing. He is an author or co-author of more than 48-refereed publications in journals and conferences. He is a reviewer for different reputed journals like Elsevier, Wiley, Inderscience, etc., and he has been a guest editor for few special issues in Hindawi, Elsevier, Inderscience, Springer, etc.

Danilo Pelusi received his PhD in Computational Astrophysics from the University of Teramo, Italy, where he is currently an Associate Professor with Faculty of Communication Sciences. His research interests include fuzzy logic, neural networks, information theory, evolutionary algorithms and mathematical reasoning. He has served as a program member of many conferences and as editorial board member of many journals. He is also an associate editor of the *IEEE Transactions on Emerging Topics in Computational Intelligence*, *IEEE Access*, *International Journal of Mathematical Reasoning* and *Cybernetics* (Springer), and *Array* (Elsevier). He is also a guest editor for the Elsevier, Springer, and Inderscience journals. He is also a reviewer of reputed journals, such as the *IEEE Transactions on Fuzzy Systems* and *IEEE Transactions on Neural Networks and Learning Systems*.

Subramaniam Ganesan is a Professor of Electrical and Computer Engineering at the Oakland University, Rochester, MI 48309, USA. He has over 25 years of teaching and research experience in digital systems. He served as the Chair of the CSE Department from 1991 to 1998. He is with the Electrical and Computer Engineering Department since 2008. He received his Master's and PhD from the Indian Institute of Science (IISc) Bangalore, India. He worked at the National Aeronautical Laboratory (NAL), India, Ruhr University, Germany, Concordia University, Canada, and Western Michigan University before joining Oakland University.

The world is getting smarter and smarter today, in which an organisation needs a tremendous amount of knowledge from both consumers as well as its concern to assess and judge its ability to move forward with competitive advancement. According to the International Institute for Analytics, the data-driven enterprise will see productive benefits of $430 billion in 2020. In reality, knowledge is becoming a critical asset for every organisation to achieve a healthy future. In processing it, not only information but its analytics play another important role, particularly the technology name big data. Data analysis is necessary in order to produce an immense amount of data that can be understood.

The trend of machine learning has started to dominate many fields by impacting every aspect of human life. Efforts are also being made to improve machine learning to a point where no human intervention would be needed. This artificial intelligence section, which uses machine-learning models to learn from data, is seen as science's bright future. The next stage of development of automation is machine learning. Machine learning may be even more useful when combined with the power of cloud computing. Computing, networking and storage are carried out by the existing iteration of the cloud, while the fusion of machine learning expands its potential to infinite possibilities. With factors such as computing/storage and processing power to handle a large amount of data, the intelligent cloud is scalable. Also, the development and use of online services of the modern era, mobile technology that push the world into the intelligent analytics era that intelligent cloud will be able to do. Several studies have been carried out in analytics concentrating on various aspects of solutions. However, very few research works, including the management and analysis of the vast data volume, the obstacles, and opportunities, are helpful to complete the survey on the entire pine-line of the analytics. The ever-increasing demand for these services and the continuous improvement of IoT development technologies have led to the emergence of various types of intelligent cloud challenges and requirements.

This special issue covers the topics such as computing cognitive, personal support and chatbots, increased cloud demand, intelligence for company, design of architecture for ML cloud computing, protection and privacy enhancement, monitoring, monitoring and optimisation distributed, technologies in sensing and wireless, stability and optimal monitoring, design of intelligent transportation system, in ML cloud computing, protection, privacy, honesty, and trust, test beds and cloud computing simulation tools, a complex Boltzmann computer on smart real-time computation, deep belief networks, etc.

This special issue is a perfect forum for researchers to use these applied soft computing techniques to come up with groundbreaking ideas and methods in the field of big data and deep learning. As it directly affects the impacts of cloud computing. It also explores a range of methods and solutions that can generate, aggregate, visualise and

analyse data in cloud for the organisation, which can resolve the researchers' hurdles. On the other hand, these studies cover informative trends, knowledge patterns that produce disruptive changes around them. We hope that the realistic application of this research set will, for the good of humanity, promote technical advances and excellence.

I would like to thank the Editor-in-Chief for giving us the opportunity to serve as guest editor(s) of this special issue in *International Journal of Cloud Computing*. It was a true pleasure. I would also like to express my gratitude to all the members of the editorial board, the authors and the independent reviewers who made this issue possible. We hope that this special issue will be of high interest to the reader, as we consider that are the contributions contained in it.