Editorial

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Biographical notes: Jafar Ahmad Abed Alzubi received his BSc in Science from Jordan University Jordan, MSc in Information Network and Computer Security from New York Institute of Technology, USA and PhD in Computer and Network Security from Swansea University in UK. His main area of research activity is advanced wireless networks and VLSI physical design. He served as a reviewer for Springer, Inderscience and Elsevier journals. He has published many research articles in refereed journals and IEEE conferences. He has been the General Chair in several conferences. He is a member of IEEE, IACSIT, IAENG, SCIEI and ISTE wireless research group. He has been serving as the Organizing Chair and Program Chair of several international conferences and in the program committees of several international conferences. Currently, he is working as a Professor in the Department of Telecommunications, Wake Forest University, LCBN, Winston Salem, North Carolina, USA.

M.S. Saleem Basha received his BE in Electrical and Electronics Engineering in Bangalore University India, ME in Computer Science and Engineering in Anna University India and PhD in Computer Science and Engineering from Pondicherry University, India. His main area of research activity is information security, web service computing and VLSI physical design. He served as a Reviewer for Springer, Inderscience and Elsevier journals. He has published many research articles in refereed journals and IEEE conferences. He has been the General Chair in several conferences. He is a member of IEEE and ISTE. He has been serving as the Organizing Chair and Program Chair of several international conferences and in the program committees of several international conferences. Currently, he is working as a Professor Head of Research, Mazoon University College, Muscat, Oman.

Decentralised distributed measurement systems eliminate the biggest problem – a single point of failure in centralised networks – with the facilitation of multiple owners. Very recently, the increased interest in privacy-driven distributed computations has necessitated greater scrutiny of the security and optimality of these distributions. The need to solve computationally intensive problems has resulted in significant research and investment in the field of distributed measurement system, especially targeting smart mobile internet of things (IoT). Furthermore, the increased presence of portable smart devices, coupled with the explosive growth in computing power, offers an untapped resource for these computations. Importantly, blockchain technology is an elegant example of distributed computation which decentralises information. There is no doubt that the implications of blockchain for distributed systems are of profound influence.

This special issue aims to benefit the research community with a collection of articles emphasising the challenges and solutions to 'distributed secure measurement system for smart mobile IoT networks'. This special issue will also focus on state-of-the-art fast and efficient privacy-enhancing techniques for achieving secure distributed computations in IoT networks. Issues such as how to compute on encrypted data for IoT networks, how to verify computation in outsourced environments, how to keep the data privacy for IoT networks under machine learning techniques, how to achieve password-based authentication in distributed environments, and how to guarantee the data privacy in blockchain and smart contract will be covered. We welcome both original research articles as well as review articles discussing the current state-of-the-art.

This special issue has collected some good articles. It had great repercussions and success. We thank all authors for your participation.