Editorial

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Biographical notes: Zheng Xu is currently a Professor at Shanghai Polytechnic University, China. He has authored or co-authored more than 200 publications. He has over 4200 citations (H-index 32). He is the Editor-in-Chief of Cyber-Physical Systems, and also of *International Journal of Information Technology, Communications and Convergence*. He is also the section editor of *Discover Internet of Things*. His paper entitled 'Ensemble-based multi-filter feature selection method for DDoS detection in cloud computing' obtained EURASIP Best Paper Awards 2019.

Jemal H. Abawajy is a Professor at the School of Information Technology, Deakin University, Australia. He is currently the Director of the Parallel and Distributing Computing Laboratory. He is a Senior Member of the IEEE Technical Committee on Scalable Computing, the IEEE Technical Committee on Dependable Computing and Fault Tolerance, and the IEEE Communication Society. His leadership is extensive, spanning industrial, academic, and professional areas.

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Multiscale energy systems are addressing the technical analysis required to support the energy transition. The advanced modelling of complex systems examines both specific technologies and overall energy performance to provide a robust, technically sound, and clear picture of the energy choices today and in the future. Additionally, the multiscale energy systems also focused on the analysis of the environmental impact of energy generation from a systems perspective, as well as introducing emerging technologies aimed at reducing this impact. With the rapid developments of portable electronics, electric vehicles, and electrical grids, electrochemical energy storage systems have attracted increasing interest due to their high energy density.

The purpose of this special issue aims to offer a multi-scale approach combines process synthesis, scheduling, and supply chain concepts in a mixed-integer linear programming model to address the trade-offs between integrating various renewable technologies.

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