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 Editor-in-Chief 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 currently a full Professor with the Faculty of Science, Engineering and Built Environment, Deakin University, Burwood, VIC, Australia. He has delivered more than 70 keynote talks and seminars worldwide and has been involved in the organisation of more than 300 international conferences in various capacities. He has also served on the editorial board of numerous international journals.

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Octavio Loyola-González received his PhD in Computer Science from the National Institute for Astrophysics, Optics, and Electronics, Mexico. He has won several awards from different institutions due to his research work on applied projects; consequently, he is a Member of the National System of Researchers in Mexico (Rank 1). He worked as a Distinguished Professor and Researcher at Tecnologico de Monterrey, Campus Puebla, for undergraduate and graduate programs of Computer Sciences. Currently, he is Executive Manager at NTT DATA, where he leads Advanced Analytics (AI & Gen AI) for sectors such as automotive, manufacturing, real estate, infrastructure, and services.

Introduction

Global warming has emerged as one of the most pressing environmental challenges confronting the world today, resulting in ecological issues such as glacier melting, land desertification, and vegetation degradation. Over the past few years, the international community has convened a series of pivotal meetings and forged numerous agreements aimed at regulating carbon dioxide emissions. Carbon neutrality has now become a pivotal strategic objective for major energy-consuming nations worldwide in their efforts to curb CO_2 emissions. The question of how to effectively accomplish this strategic goal has garnered significant attention from government officials and academic circles globally. Currently, numerous countries and regions have announced their climate ambition of achieving 'zero-carbon' or carbon neutrality. The purpose of this Special Issue is to provide a platform for the exchange and publication of research related to carbon neutrality and environmental impact assessment to help realise the sustainable development of human society and economy.

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