AI-Aided Sustainable IoT System: Theories, Techniques, and Applications

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Deadline for manuscript submissions:
15 October 2024

mdpi.com/si/199760

Message from the Guest Editors

Dear Colleagues,

The global mobile data traffic market is projected to grow from 84 million terabytes per month in 2022 to 603.5 million by 2030. The sustainable Internet of Things (IoT) system has emerged as a proactive response to the mounting energy consumption concerns arising from the rapid proliferation of IoT devices and technologies. In propelling the development of the sustainable IoT system, Artificial Intelligence (AI)-based techniques play important roles. State-of-the-art AI-based technologies in signal processing, wireless communications, embedded systems, and smart computing could be helpful in adding intelligence to the sustainable IoT system. This Special Issue is dedicated to exploring the latest developments of AI-based technologies in the sustainable IoT system with a specific focus on showcasing innovative solutions that augment their capabilities and applications.

- Intelligent information theory;
- Intelligent signal processing;
- Wireless artificial intelligence;
- Green intelligent communication and computing;
- Deep neural networks;
- Intelligent image processing;
- Statistical signal modeling;
- Integrated circuits simulations;
- Big data analysis;

Special Issue

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Message from the Editor-in-Chief

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