Special Issue

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

Message from the Guest Editors

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;

Guest Editors

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Deadline for manuscript submissions

closed (15 October 2024)

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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