Special Issue

AI-Empowered Wireless Communication Technology for Internet of Things (IoT)

Message from the Guest Editors

The ever-growing demand of the Internet of Things (IoT) imposes great challenges in the existing cellular systems and calls for novel approaches to designing wireless communication networks. Recent research in the field of IoT has focused on a broad range of significant topics, including communication network protocols, cyber–physical systems, embedded systems, data analytics, and machine learning algorithms. Notably, the IoT network connects billions of resource-limited sensor devices to enable the services in many applications, such as next-generation healthcare, transportation, agriculture, energy, smart cities, etc. However, it also attracts malicious users to take advantage of the loosely secured IoT ecosystem. Hence, IoT development and deployment need to take security, trustworthy management, privacy preservation, and digital forensics into consideration. We have thus organized the Special Issue entitled “AI-Empowered Wireless Communication Technology for Internet of Things (IoT)” to address these grand challenges.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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