Special Issue

Challenges and Future Trends of Artificial Internet of Things

Message from the Guest Editors

In recent years, scholars and industry experts have proposed integrating AI and cloud–edge–terminal collaborations into a highly functional underpinning infrastructure for intelligent IoT applications. Artificial intelligence of things (AIoT) has become a hot research area to realize real-time information acquisition through IoT sensors and perform intelligent data analysis tasks anywhere along the terminal–edge–cloud continuum, to form a smart and enabling ecosystem that brings not only extensive economic benefits but also social welfare.

Although the de facto AIoT solutions have been deployed in many application fields (smart homes, smart cities, eHealth services, auto-piloting vehicles, industrial control, etc.), there are some scientific and technical issues regarding the unique features of AIoT, including communication protocols, resource management, task assignments, data analytics, network security, etc. To address the challenges in these directions, effective and efficient technologies are urgently needed for AIoT.

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Deadline for manuscript submissions

closed (20 January 2025)

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Message from the Editor-in-Chief

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