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Challenges and Future Trends of Artificial Internet of Things

Guest Editors:

Prof. Dr. Dapeng Wu

School of Communication and Information Engineering,
Chongqing University of Posts and Telecommunications,
Chongqing 400065, China

Dr. Zhidu Li

School of Communication and Information Engineering,
Chongqing University of Posts and Telecommunications,
Chongqing 400065, China

Dr. Boran Yang

School of Artificial Intelligence,
Chongqing University of Technology, Chongqing 400054,
China

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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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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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