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Recent Advance of Computing Power Networks at the Edge

Guest Editors:

Prof. Dr. Yi Gao
College of Computer Science and Technology, Zhejiang University, Hangzhou 310027, China

Dr. Jiamei Lv
School of Software Technology, Zhejiang University, Ningbo 315048, China

Deadline for manuscript submissions:
closed (15 July 2024)

Message from the Guest Editors

In the era of the Internet of Everything, the surge in computing demands is presenting significant challenges. The conventional architecture of cloud computing falls short in terms of meeting the stringent requirements of latency, bandwidth, security, and privacy for massive data processing. As the number of endpoint devices continues to grow, the migration of cloud computing tasks, to the edge has emerged as a pivotal technological trend.

Nevertheless, edge computing resources are inherently constrained and costly compared to their cloud counterparts. Consequently, exploring the possibilities to establish a cost-effective, efficient, and resilient computing power network at the edge of interest as a research topic.

Potential submission themes include, but are not limited to, the following areas:

- Communication infrastructure for computing power networks at the edge;
- Programming models and toolkits for computing power networks at the edge;
- AI services on the edge;
- Emerging applications at the edge;
- Resource management for computing power networks at the edge;
- Security and privacy issues of computing power networks at the edge.

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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