Special Issue

Cloud/Edge Computing for Next-Generation Networks: Architecture and Applications

Message from the Guest Editor

This Special Issue aims to promote advances in cloud and edge computing for next-generation networks. We invite research contributions that propose, evaluate, or review innovative architectures, applications, and frameworks that focus on such critical challenges and unlock the full potential of these technologies. The scope of this Special Issue includes, but is not limited to, the following topics:

- Frameworks for integrating cloud and edge computing.
- Resource allocation and scheduling in cloud-edge systems.
- Security and privacy solutions for cloud-edge networks.
- AI/ML-driven extensions for cloud-edge environments.
- Interoperability in heterogeneous cloud-edge systems.
- Energy-efficient designs for cloud-edge infrastructures.
- Deployment strategies for cloud edges in 5G/6G networks.
- Cloud-edge applications across industries (e.g., healthcare, smart cities, and smart homes).
- Latency-critical use cases (e.g., autonomous vehicles, automation).
- Reliability and fault tolerance in distributed cloud-edge ecosystems.

Guest Editor

Dr. Lav Gupta

Department of Computer Science, University of Missouri—St. Louis, St. Louis, MO 63121, USA

Deadline for manuscript submissions

31 August 2025

Future Internet

MDPI

Future Internet

mdpi.com/journal/
futureinternet

About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

Editor-in-Chief

Prof. Dr. Gianluigi Ferrari
Department of Engineering and Architecture, University of Parma,
Parco Area delle Scienze, 181/A, 43124 Parma, Italy

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, Inspec, and other databases.

Journal Rank:
JCR - Q2 (Computer Science, Information Systems) / CiteScore - Q1 (Computer Networks and Communications)

MDPI