Special Issue

Intelligent Cloud–Edge Networking: Innovations for Next-Gen Applications

Message from the Guest Editor

The rapid proliferation of connected devices and the exponential growth of data traffic have fundamentally transformed modern computing paradigms. This Special Issue focuses on intelligent cloud–edge networking, integrating advanced networking technologies with artificial intelligence to enhance collaboration between cloud data centers and edge computing nodes. The aim is to meet demands of next-generation applications such as augmented reality, autonomous vehicles, smart cities, and industrial IoT, which require ultra-low latency, high reliability, and adaptive resource management. This issue consolidates theoretical advances and practical implementations that strengthen cloud–edge cooperation and intelligent networking. We welcome contributions on innovative algorithms, system architectures, and real-world case studies. Topics include AI-driven network orchestration, cloud–edge resource allocation, network slicing, distributed machine learning, and security. We also seek novel architectures enabling seamless integration between cloud infrastructures and heterogeneous edge devices.

Guest Editor

Dr. Xuan-Qui Pham
College of Computing and Data Science, Nanyang Technological University, Singapore, Singapore

Deadline for manuscript submissions

7 August 2026

AI

an Open Access Journal by MDPI

Impact Factor 5.0
CiteScore 6.9

mdpi.com/si/248356

AI
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ai@mdpi.com

mdpi.com/journal/ai

AI

an Open Access Journal by MDPI

Impact Factor 5.0
CiteScore 6.9

mdpi.com/journal/ai

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Kenji Suzuki
Biomedical Artificial Intelligence Research Unit (BMAI), Institute of Integrated Research, Institute of Science Tokyo, Yokohama 226-8501, Japan

Author Benefits

Open Access:

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

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Journal Rank:

JCR - Q1 (Computer Science, Interdisciplinary Applications) / CiteScore - Q2 (Artificial Intelligence)

MDPI