

Special Issue

Collaboration of Cloud and Edge Computing and Application

Message from the Guest Editor

Cloud computing offers unlimited, pay-per-use resources, driving academic and industrial interest. However, the rise of mobile and wearable devices generates massive heterogeneous data, making traditional cloud architectures unsuitable for real-time sensitive applications. Edge computing addresses these issues, but edge nodes have limited power and computing. Thus, uploading partial data to the cloud—enabling cloud–edge collaboration—has become a key research focus. This Special Issue solicits, but is not limited to, the following topics:

- **Computing paradigm for cloud-edge collaboration**
- **Communication algorithm for cloud-edge collaboration**
- **Graph algorithms for cloud-edge collaboration**
- **Smart chips for cloud-edge collaboration**
- **Efficient network architecture**
- **Privacy-primary collaboration**
- **Edge pre-trained models**
- **Edge graph neural networks**
- **Edge–cloud reinforcement learning**
- **AI computing hardware in edge computing/ cloud computing**
- **CNN/DNN/GNN for cloud-edge collaboration**
- **Reinforcement learning for cloud-edge collaboration**
- **Federated reinforcement learning for cloud-edge collaboration**

Guest Editor

Dr. Zhigao Zheng
School of Computer Science, Wuhan University, Wuhan 430079, China

Deadline for manuscript submissions

20 October 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/266521

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

mdpi.com/journal/

[applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)