Special Issue

Generative Artificial Intelligence in Cloud-Edge Collaboration: Service Optimization and Efficient Inference Exploration

Message from the Guest Editors

Dear colleague,

Generative Artificial Intelligence (GAI) has achieved remarkable success in relation to cloud technology, demonstrating powerful generative capabilities and a broad range of application prospects. Additionally, edge computing is playing an increasingly critical role in GAI by optimizing computational efficiency, reducing latency, and enabling localized data processing, particularly in tasks such as big data analytics and real-time inference. In scenarios that combine cloud and edge computing, GAI is presented with new growth opportunities. Cloud computing provides robust support for the training and fine-tuning of large generative models; however, as application demands increase, decentralizing these capabilities to edge devices is becoming increasingly important to enhance service coverage and real-time responsiveness. GAI technology is widely applied in fields such as image generation, natural language processing, and personalized recommendation, where low latency and real-time processing are essential.

Guest Editors

Dr. Zongwei Zhu

Dr. Changlong Li

Dr. Xianzhang Chen

Dr. Shouzhen Gu

Deadline for manuscript submissions

closed (25 June 2025)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/223768

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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