

# Special Issue

## Advances in AI-Driven Distributed Systems

### Message from the Guest Editor

The growing demand for scalable, efficient, and intelligent computing has driven significant advancements in AI-powered distributed systems. This Special Issue focuses on the integration of AI techniques to enhance the performance, reliability, and adaptability of distributed architectures. Topics of interest include AI-driven resource management, intelligent task scheduling, fault tolerance, and security in distributed environments. Additionally, we welcome research on AI applications in cloud computing, peer-to-peer networks, and big data analytics, as well as innovative software engineering approaches for optimizing distributed systems. This Special Issue aims to bring together researchers and practitioners to share insights and developments that shape the future of AI-driven distributed computing.

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### Guest Editor

Dr. Fabrizio Marozzo

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### Deadline for manuscript submissions

closed (20 October 2025)



## Applied Sciences

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### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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