## Special Issue

## Novel Insights into Parallel and Distributed Computing

## Message from the Guest Editors

The scope of this Special Issue covers a wide range of topics, including, but not limited to:

- Parallel computing architectures, including multi-core and many-core systems, GPUs, and FPGAs.
- Distributed computing frameworks and systems, such as cloud computing, edge computing, and Internet of Things (IoT) infrastructures.
- Scalable algorithms and applications for big data analytics, machine learning, and artificial intelligence in parallel and distributed environments.
- Performance optimization techniques, including task scheduling, load balancing, and resource management in parallel and distributed systems.
- Advances in parallel programming models, languages, compilers, and runtime systems.
- Communication and networking protocols designed for efficient data exchange in distributed computing settings.
- Theoretical foundations and models for understanding the limits and potential of parallel and distributed computation.
- Case studies and real-world applications of parallel and distributed computing in various domains such as scientific computing, bioinformatics, finance, and engineering.

## **Guest Editors**

Dr. Shaohua Liu

School of Electronic Engineering, Beijing University of Posts and Telecommunications, Beijing 100876, China

Prof. Dr. Zhili Sun

Institute for Communications (ICS), 5G&6G Innovation Centre (5G&6GIC), University of Surrey, Guildford GU2 7XH, UK

## **Deadline for manuscript submissions**

closed (20 May 2025)



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

mdpi.com/journal/applsci





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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.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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