Special Issue

Recent Advances in Parallel Computing and Big Data

Message from the Guest Editors

We are pleased to announce a forthcoming Special Issue titled "Recent Advances in Parallel Computing and Big Data". This Special Issue aims to highlight significant developments in parallel computing technologies that effectively tackle the challenges in big data analysis, artificial intelligence models and large-scale parallel applications. By focusing on scalable and efficient solutions, we explore how these technologies are critical in various domains. Topics of interest for this Special Issue include, but are not limited to, the following:

- Innovative parallel algorithms for big data processing;
- Numerical methods and parallel algorithms for the advanced modeling and simulation;
- Architectures and frameworks for integrating big data and parallel computing;
- Advances in distributed databases and file systems for handling big data;
- Challenges and solutions in data-intensive environments for parallel computing systems

We invite researchers to submit their original research articles, comprehensive review papers and short communications that push the frontiers of knowledge in parallel computing and big data.

Guest Editors

Dr. Jue Wang

Dr. Meng Wan

Prof. Dr. Rongqiang Cao

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
applsci@mdpi.com

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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

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