

## Special Issue

# Design and Application of High-Performance Computing Systems

### Message from the Guest Editors

High-performance computing (HPC) systems have revolutionized the way we process and analyze vast amounts of data, enabling breakthroughs in various scientific, engineering, and industrial domains. These systems, characterized by their exceptional processing power and parallel computing capabilities, have become indispensable tools for tackling complex computational problems that were once considered intractable. We encourage submissions that cover a wide range of topics, including but not limited to novel architectures, parallel programming, scalable algorithms, software frameworks/tools, and the applications of high-performance computing systems in solving complex problems. We hope that this Special Issue will contribute to advancing state-of-the-art high-performance computing systems and inspire further research and development in this exciting field.

---

### Guest Editors

Dr. Jianbin Fang

College of Computer Science and Technology, National University of Defense Technology, Changsha 410073, China

Prof. Dr. Zheng Wang

Intelligent Software Technology, School of Computing, University of Leeds, Leeds, UK

---

### Deadline for manuscript submissions

closed (20 June 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/179766](https://mdpi.com/si/179766)

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

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

[applsci](https://doi.org/10.3390/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 )