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State-of-the-Art High-Performance Computing and Networking

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Deadline for manuscript submissions:

closed (30 September 2022)

Message from the Guest Editors

High-performance computing (HPC) plays an indispensable role in addressing many of the challenges of today's society. From cancer fighting to astrophysics, supercomputers are used to solve extremely large problems in a reasonable time. As all fields of science evolve, more and more computational power is required to process the ever-increasing datasets. There are big challenges associated with all of the following three broad domains: hardware, software, and applications.

This Special Issue "State-of-the-Art High-Performance Computing and Networking" aims to publish novel research related to all levels of HPC. Submissions are expected to focus on computing and/or networking aspects of current and emerging HPC platforms. Review articles are also welcome.

Topics of interest include, but are not limited to, the following:

- Applications
- Programming models, runtime systems, and compiler support
- System software
- Performance tools
- Computer architecture
- Network architecture and HPC protocols











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Editor-in-Chief

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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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