



New Trends for High-Performance Computing

Guest Editors:

Dr. Xin Liang

Department of Computer
Science, Missouri University of
Science and Technology, Rolla,
MO 65409, USA

Dr. Dingwen Tao

School of Electrical Engineering &
Computer Science, Washington
State University, Pullman, WA
99164, USA

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Message from the Guest Editors

Dear colleagues,

High-performance computing (HPC) has revolutionized many domains of science and engineering, including scientific simulation, knowledge discovery, and artificial intelligence. Fully harnessing and exploiting the computing power of HPC systems is expected to further advance those disciplines, but this is becoming more challenging because of the rapid evolution in the designs of recent and future HPC systems.

This Special Issue seeks novel research in the context of algorithms, software, and architectures for current and next-generation HPC, including (but not limited to) parallel algorithms that exploit the existing and incoming architectures; system software that enhances the HPC cyberinfrastructure; large-scale applications that take advantage of HPC systems; and novel architectures that feature performance, energy efficiency, or resilience.

Dr. Xin Liang

Dr. Dingwen Tao

Guest Editors





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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
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