



## Computer Architecture and Parallel Computing

Guest Editor:

**Dr. Qiang Wang**

School of Computer Science and  
Technology, Harbin Institute of  
Technology, Shenzhen  
518055, China

Deadline for manuscript  
submissions:

**closed (15 May 2024)**

### Message from the Guest Editor

Dear Colleagues,

In the face of escalating computing demands, particularly in the era of large language model (LLM)-based applications, the necessity for efficient and scalable solutions has grown. These solutions must effectively leverage parallelism and optimized hardware architectures. To ensure dependable and sustainable computational support, it is imperative to encompass key innovations in new hardware designs for high-performance computing architectures. Equally vital are the software techniques that unlock their complete potential, such as parallel applications and algorithms, performance assessment and modeling, as well as power and thermal management.

We encourage submissions covering a wide range of topics related to Computer Architecture and Parallel Computing, including but not limited to:

1. Novel Processor Architectures;
2. Memory Hierarchy and Storage Systems;
3. Parallel Programming Models and Languages;
4. Multi-core and Many-core Systems;
5. Parallel Algorithms and Applications;
6. Performance Evaluation and Benchmarking;
7. Power and Thermal Management;
8. Emerging Technologies.





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**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, St. Alban-Anlage 66  
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