Special Issue

Theoretical Foundations and Algorithms for Scheduling in Parallel and Distributed Systems

Message from the Guest Editors

This Special Issue brings together contributions that advance both the theoretical underpinnings and algorithmic techniques for solving scheduling problems in parallel and distributed systems. We invite submissions that explore innovative theories, models, algorithms, and applications in scheduling for parallel and distributed systems. Topics of interest include, but are not limited to, the following:

- Complexity analysis and performance bounds of scheduling problems;
- Approximation, heuristic, and randomized algorithms;
- Task allocation and load balancing in parallel and distributed systems;
- Scheduling under uncertainty, dynamic environments, or heterogeneous resources;
- Energy-aware and performance-driven scheduling strategies;
- Models and algorithms for fog, cloud, and edge computing;
- Machine learning and data-driven approaches to scheduling;
- Applications of scheduling algorithms in emerging technologies such as IoT and Blockchain.

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Deadline for manuscript submissions

30 September 2026

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Information

an Open Access Journal by MDPI

**Impact Factor 2.9
CiteScore 6.5**

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