ACM HPDC 2023

The 32nd International Symposium on High-Performance Parallel and Distributed Computing
Orlando, Florida, United States, June 16 - 23, 2023

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Deadlines (AoE):

Papers due:	**January 27, 11:59pm, 2023**
Author notifications:	March 29, 2023
Conference dates:	June 16 - 23, 2023

https://hpdc.org/2023/

Overview

The ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC) is the premier annual conference for presenting the latest research on the design, implementation, evaluation, and use of parallel and distributed systems for high-performance computing. The 32nd HPDC is part of the ACM Federated Computing Research Conference (FCRC) and will be held in Orlando, Florida, June 16-23, 2023.

Scope & Topics:

Submissions are welcomed on high-performance parallel and distributed computing topics including but not limited to: clouds, clusters, grids, big data, massively multicore, and extreme-scale computing systems. Submissions presenting new open-source tools or data are encouraged. Experience reports of operational deployments that present novel insights for future research on HPDC applications and systems are also welcome.

In the context of high-performance parallel and distributed computing, the topics of interest include, but are not limited to: In the context of high-performance parallel and distributed computing, the topics of interest include, but are not limited to:

- Datacenter, HPC, cloud, serverless, and edge/IoT computing platforms
- Heterogeneous computing accelerators and non-volatile memory systems
- File and storage systems, I/O, and data management
- Operating systems and networks
- System software and middleware for parallel and distributed systems
- Programming languages and runtime systems
- Big data stacks and big data ecosystems
- Scientific applications, algorithms, and workflows
- Resource management and scheduling
- Performance modeling, benchmarking, and engineering
- Fault tolerance, reliability, and availability
- Operational guarantees, risk assessment, and management
- Novel post-Moore computing technologies including neuromorphic, brain-inspired computing, and quantum computing.

Submission Guidelines:

Authors are invited to submit technical papers of at most 11 double column pages in PDF format, excluding references. Papers should be formatted in the ACM Proceedings Style and submitted via the HotCRP submission website. Submitted papers must be original work that has not appeared in and is not under consideration for another conference or journal. To promote fair and equitable reviewing, HPDC will use a double-blind review process. Please refer to the HPDC 2023 website for more information.