

operational deployments that provide significantly 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:

- 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** algorithms, and workflows
- Resource management and scheduling
- Performance modeling, benchmarking, and **Engineering** engineering
- Fault tolerance, reliability, and availability
- Operational guarantees, risk assessment, and management
- **energy** efficiency and sustainability
- AI topics, which must relate to parallel and distributed computing systems
- Novel post-Moore computing technologies including neuromorphic, brain-inspired computing, and **Quantum Computing**

HPDC welcomes submissions that utilize AI to enhance the above topics of interest or that utilize distributed systems to enhance AI frameworks, but we highlight that an HPDC submission must address and articulate its connection with parallel and distributed computing research.

Paper Submission Categories

Submissions to HPDC can be made in one of the following two categories: (1) regular papers, or (2) open-source tools and data papers. The primary focus of regular papers should be to describe new research ideas supported by experimental implementation and evaluation of the proposed research ideas. The primary focus of open-source tools and data should be to describe the design, development, and evaluation of new open-source tools or novel data sources. Submissions in the regular papers category are also strongly encouraged to open-source their software or hardware artifacts.

The authors are required to indicate the category of the paper as a part of the submitted manuscript's title. The last line of the title should indicate the paper type by using one of the two phrases (1) Paper Type: Regular, or (2) Paper Type: Open-source tools and data paper.

Submissions in both categories will be evaluated to the same standards in terms of novelty, scientific value, demonstrated usefulness, and potential impact on the field. The chosen category at the time of the submission cannot be changed after the submission deadline.

Submission Guidelines

Authors are invited to submit technical papers of at most 11 pages in PDF format, excluding references. Accepted papers will have the flexibility to use an additional page in the camera-ready to incorporate feedback from the reviewers. Papers should be formatted in the ACM Proceedings Style (using sigconf from <https://www.acm.org/publications/proceedings-template>) and submitted via the conference submission website. Submitted papers must be original work that has not appeared in and is not under consideration for another conference or a journal.

Anonymizing Submissions

HPDC uses dual-anonymous (identities of reviewers and authors are not shared) reviewing. Avoid identifying yourself or your institution explicitly or by implication (e.g., through the references or acknowledgments). The first page should use the paper ID assigned during registration in place of the author names.

Use care in referring to your own related work. Do not omit references to your prior work, as this would make it difficult for reviewers to place your submission in its proper context. Instead, reference your past work in the third person, just as you would any other piece of related work. In some cases, it is not credible to refer to your related work in the third person. For example, your submission may extend a previous workshop paper, or it may relate to a submission currently

under review at HPDC or another venue. In these cases, you must still explain the differences between your HPDC submission and the other work, but you should cite the other work anonymously and e-mail the deanonymized work to the PC chairs.

If your submission reports on experiences with a system at your institution, you should refer to the system anonymously but describe the properties of the system that are needed to evaluate the work (e.g., size of the user base, volume of requests, etc.). We recognize that, in some cases, these properties may allow a reviewer to identify your institution. Tool/data papers should also adhere to the dual-anonymous submission policy. If the described tool/dataset framework is already widely used by the research community, consider describing the framework using a different name and not sharing the open-source code repository in the paper.

Confidential Information

Papers containing information that is subject to a non-disclosure agreement (NDA) will not be considered for review.

arXiv Submission Policy

Please note that having an arXiv paper does not prohibit authors from submitting a paper to HPDC 2024. arXiv papers are not peer-reviewed and not considered as formal publications and hence do not count as prior work. Authors are not expected to compare against arXiv papers that have not

formally appeared in previous conference or journal proceedings. If a submitted paper is already on arXiv, please continue to follow the dual-anonymous submission guidelines. Authors are encouraged to use preventive measures to reduce the chances of accidental breach of anonymity (e.g., use a different title in the submission and do not upload/revise the arXiv version during the review period after the submission deadline).

Author List After Acceptance

Please note that the author list cannot be changed after acceptance.

Conflict of Interest Declaration

At the time of submission, all authors must indicate their conflict of interest with the PC members. A conflict of interest may be institutional, collaborative, or personal. Please see detailed guidelines about how to accurately declare a conflict of interest on the submission website.

HPDC Policy on the use of AI

HPDC permits the use of AI tools (e.g., ChatGPT, Grammarly, or other AI assistants) to help improve the submission text. We recommend that you use these [services](#) merely for language rectification. The authors should verify whether the results are accurate before submission. Only the authors are fully responsible and accountable for the contents of their papers. AI tools are not eligible for authorship.

The use of any AI-generated text must be disclosed in the acknowledgments section. The sections of the paper that use AI-generated text should have a citation to the AI system used in the acknowledgments section. The acknowledgment section should still follow the dual-anonymous submission guideline (i.e., any author-related information should not be included).

ACM Policy on Authorship

Please refer to the ACM Policy on Authorship for all other guidelines. The frequently asked questions page

(<https://www.acm.org/publications/policies/frequently-asked-questions>) provides policies on the use of **generative ai** tools in preparing manuscripts.

By submitting your article to an ACM Publication, you are hereby acknowledging that you and your co-authors are subject to all ACM Publications Policies, including ACM's new Publications Policy on Research Involving Human Participants and Subjects. Alleged violations of this policy or any ACM Publications Policy will be investigated by ACM and may result in a full retraction of your paper, in addition to other potential penalties, as per ACM Publications Policy.

Please ensure that you and your co-authors obtain an ORCID ID, so you can complete the publishing process for your accepted paper. ACM has been involved in ORCID from the start and we have recently made a commitment to collect ORCID IDs from all of our published authors. The collection process has started and will roll out as a

requirement throughout 2022. We are committed to improve author discoverability, ensure proper attribution and contribute to ongoing community efforts around name normalization; your ORCID ID will help in these efforts.

Contact PC Chairs

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Submissions

Submit papers at <http://hpdc2025.hotcrp.com>

Suggestions for Document Preparation for Authors
Formatting the Introduction Section

HPDC authors are encouraged to structure their introduction section of the paper in the following format (as subsections or headings).

Motivation. Clearly state the objective of the paper and provide (quantitative) support to motivate the specific problem your submission is solving
Limitation of state-of-art approaches. Briefly review the most relevant and most recent prior works. Clearly articulate the limitations of prior works and how your approach breaks away from those limitations. A more detailed discussion should be reserved for the related work section.

But, this section should be sufficient to help readers recognize the novelty of your approach
Key insights and contributions. Briefly articulate the major insights that enable your approach or make it effective. Clearly specify the novelty of these insights and how they advance state-of-the-art. Describe the key ideas of your approach and design. List the key contributions including flagship empirical results and improvement over the prior art as applicable

Experimental methodology and artifact availability. Clearly specify the key experimental / simulation infrastructure and methodological details. Support the experimental methodology choices (e.g., cite that most relevant and most recent prior works have evaluated their ideas using similar methodology). Include a line to indicate whether the software/hardware artifact will be available upon acceptance

Limitations of the proposed approach. Almost all scientific contributions have limitations and scope for improvement. Clearly articulate all the major limitations of the proposed approach and identify conclusions that are sensitive to specific assumptions made in the paper.

Please note this suggested format is not a requirement for submission, and authors will not be penalized for using a different format.

Ethical Considerations

If your research describes a new **security**-related attack, please consider adding information about the responsible disclosure to the relevant entity. Overall, as appropriate and relevant, the paper should follow the ethical principles and not alter the security/privacy/equality expectations of the associated human users.

Inclusive Description of Research Contributions

Please consider making your research contribution description inclusive in nature. For example, consider using gender-neutral pronouns, consider using examples that are ethnicity/culture-rich, consider engaging users from diverse backgrounds if your research involves a survey, etc. Best efforts

should be made to make the paper accessible to visually impaired or color-blind readers.

TOPICS OF INTEREST

3 topics

Research papers are invited in, but not limited to, the following areas:

Computer Science
& Software
Engineering

Data Science &
Analytics

Uncategorized

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