

PODC 2019 Call for Papers
The 38th ACM Symposium on Principles of Distributed Computing
July 29–August 2, 2019, Toronto, Canada

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Dates:

Paper submission	February 18, 2019
Acceptance notification	May 5, 2019
Camera ready copy due	May 27, 2019

AUTHORS TAKE NOTE: The official publication date is the date the proceedings are made available in the ACM Digital Library. This date may be up to two weeks prior to the first day of the conference. The official publication date affects the deadline for any patent filings related to published work.

Scope:

The ACM Symposium on Principles of Distributed Computing is an international forum on the theory, design, analysis, implementation and application of distributed systems and networks. We solicit papers in all areas of distributed computing. Papers from all viewpoints, including theory, practice, and experimentation, are welcome. The goal of the conference is to improve understanding of the principles underlying distributed computing. Topics of interest include, but are not limited to, the following:

- biological distributed algorithms
- blockchain protocols
- coding and reliable communication
- communication networks: algorithms, protocols, applications
- complexity and impossibility results for distributed computing
- concurrency, synchronization, and persistence
- design and analysis of distributed algorithms
- distributed and cloud storage
- distributed data structures
- distributed graph algorithms
- distributed machine learning algorithms
- distributed operating systems, middleware, databases
- distributed resource management and scheduling
- fault-tolerance, reliability, self-organization, self-stabilization
- game-theoretic approaches to distributed computing
- high-performance, cluster, cloud and grid computing
- internet applications, social networks, recommendation systems
- languages, verification, formal methods for distributed systems
- multiprocessor and multi-core architectures and algorithms
- peer-to-peer systems, overlay networks
- population protocols
- quantum and optics based distributed algorithms
- replication and consistency
- security in distributed computing, cryptographic protocols
- sensor, mesh, and ad hoc networks
- specifications and semantics
- system-on-chip and network-on-chip architectures
- transactional memory
- wireless networks, mobile computing, autonomous agents

Submission:

A submitted paper should clearly motivate the importance of the problem being addressed, discuss prior work and its relationship to the paper, explicitly and precisely state the paper's key contributions, and outline the key technical ideas and methods used to achieve the main claims. A submission should strive to be accessible to a broad audience, as well as having sufficient details for experts in the area.

A regular paper must report on original research that has not been previously or concurrently published; concurrent submissions to journals or conferences are not permitted. The paper must be at most 11 pages (excluding references). All of the ideas necessary for an expert to fully verify the central claims in the paper, including experimental results, should be included, some of which may be placed in a clearly marked appendix that will be read at the discretion of the program committee. If desired, the appendix can be a longer version of the paper.

A brief announcement must be at most 3 pages (including title, abstract and references). Such submissions may describe work in progress or work presented elsewhere. The title of a brief announcement must begin with “Brief Announcement:”.

Papers are to be submitted at <https://podc19.hotcrp.com> as PDF files. Submissions must be in English, must be formatted in a single column on US letter-size paper (8.5×11 inches), use at least 11-point font (including abstract and references), and have 1 inch margins. Submissions not conforming to these rules as well as papers outside of the scope of the conference will be rejected without consideration. Papers may be resubmitted to the submission site multiple times prior to the deadline, but the last version submitted before the deadline will be the version reviewed.

Each paper must begin with a title and an abstract. The following information will be required to be entered separately on the submission site:

- a copy of the abstract in plain text,
- whether the paper should be considered only as a regular submission, as a brief announcement if not selected as a regular paper, or only as a brief announcement,
- authors' names, affiliations, and email addresses,
- eligibility for the best student paper award, and
- the names of anyone who should not review the paper due to a conflict of interest.

The conference will employ a lightweight double-blind reviewing process. Submissions should not reveal the identity of the authors in any way. In particular, authors' names, affiliations, and email addresses should not appear at the beginning or in the body of the submission. Authors should ensure that any references to their own related work should be in the third person (e.g., not “We build on our previous work ...” but rather “We build on the work of ...”). The purpose of this process is to help PC members and external reviewers come to an initial judgment about the paper without bias, not to make it impossible for them to discover the authors if they were to try. Nothing should be

done in the name of anonymity that weakens the submission or makes the job of reviewing the paper more difficult. In particular, important references should not be omitted or anonymized. In addition, authors should feel free to disseminate their ideas or draft versions of their paper as they normally would. For example, authors may post drafts of their papers on the web, submit them to arXiv, and give talks on their research ideas. Authors with further questions on double-blind reviewing are encouraged to contact the PC chair by email.

Publication:

Regular papers of up to 10 pages and brief announcements of up to 3 pages will be included in the conference proceedings. Extended and revised versions of selected papers will be considered for a special issue of the Distributed Computing journal. Up to two papers will be selected to be considered for publication in JACM.

Conflict of Interest:

A conflict of interest is limited to one of the following categories:

- family member or close friend,
- advisor or advisee (within the last 10 years),
- person with the same affiliation,
- party involved in an alleged harassment incident with an author (It is not required that the incident be reported.) and
- frequent or recent collaborator whom you feel cannot objectively review your work.

If you feel that you have a valid reason for a conflict of interest not listed above, contact the PC chair directly. If there is doubt about the validity of a claim of conflict of interest, the PC chair may request that a Theory of Computing Advocate confidentially verify the reason.