

Call for Papers

29th ACM Symposium on Parallelism in Algorithms and Architectures

Washington D.C., USA
July 24-26, 2017

Important Deadlines:

Regular Papers and Brief Announcements:	February 9, 11:59pm EDT
Rebuttal period:	March 27-30, 11:59pm EDT
Notification:	April 23
Camera-ready copy due:	May 23
Early Conference Registration:	TBD
Room Reservation Deadline:	TBD

Submissions are sought in all areas of *parallelism* in algorithms and architectures, broadly construed, including both theoretical and experimental perspectives. Topics of interest include, but are not limited to:

Parallel and Distributed Algorithms	Parallel and Distributed Data Structures
Algorithmic Game Theory	Scheduling in Parallel Systems
Parallel/Distributed issues in Big Data	Parallel and Distributed Architectures and I/O
Streaming Algorithms	Collaborative Learning Algorithms
Network Algorithms	Algorithms for Social Networks
Multiprocessor and Multicore Architectures	Transactional Memory Hardware and Software
Algorithms for GPUs and Other Alternative Parallel Architectures	High-Performance Parallel Computing and Architectures
Green & Power-Efficient Algorithms and Architectures	Instruction Level Parallelism and VLSI
Biological Distributed Algorithms	Mobile, Ad-Hoc, Wireless and Sensor Networks

Algorithms for Routing and Information Dissemination	Peer-to-Peer Systems
Compilers and Tools for Concurrent Programming	Fault-tolerance and Reliability
Self-stabilization and Self-organization	Security and Privacy in Distributed and Parallel Systems
Parallel/Distributed Computational Learning	Parallel Complexity Theory
Specification and Verification of Concurrent Systems	Resource Management and Awareness

Regular Papers:

Regular papers should report on original research, submitted exclusively to this conference. Submissions may not exceed ten (10) single-spaced double-column pages. (Papers will be judged based on their quality and not their length — short papers are welcome.) The title page, bibliography and designated *figure pages* (containing only figures) are not counted toward the ten pages. (Illustrative figures are encouraged.) All necessary details to substantiate the main claims of the paper should be included in a clearly marked appendix. Regular papers will be allotted up to 10 pages in the proceedings.

Brief announcements:

SPAA also solicits brief announcements that raise issues of interest to the SPAA community. Brief announcements may not exceed three pages and their titles should start with ``**Brief Announcement:**’’. Examples of good brief announcements include: (i) papers previously published elsewhere of interest to SPAA, (ii) work in progress, (iii) announcement of tools/libraries, (iv) challenge problems posed to the community, (v) corrections to earlier results. Brief announcements may also include smaller results of interest.

All regular rejected papers automatically will be considered for brief announcements. Titles of regular papers which do not want to be considered for this option should start with ``**Full Paper ONLY:**’’. Brief announcements will be allotted up to 3 pages in the proceedings.

Paper Submissions:

Submitted manuscripts may not exceed **ten (10) single-spaced double-column pages** for regular papers and **three (3) single-spaced double-column pages** for brief announcements, using **10-point size** font on 8.5x11 inch pages, not counting the title page, bibliography and designated *figure pages*). The title page should contain the title, author names and affiliations, followed by a brief abstract. See

<http://www.acm.org/sigs/publications/proceedings-templates> (version 2.8, May 2015)

for details, including the sig-alternate-05-2015.cls style file and a sample file. Additional details may be added in a clearly marked appendix that will be read at the discretion of the program committee. Please indicate in the title of your manuscript whether this is a regular paper or a brief announcement.

Regular papers submitted to SPAA may not be under simultaneous consideration for a journal or any conference or workshop with published proceedings (other than as a brief announcement for a previous conference).

Authors are encouraged to post full versions of their submissions in a freely accessible on-line repository such as the arxiv, the ECCC, or the Cryptology ePrint archive. We expect that authors of accepted regular papers will make full versions of their papers, with proofs, available by the camera-ready deadline. (This should be done in a manner consistent with the ACM Copyright Policy.)

The deadline for ALL submissions is **February 9**.

Rebuttal Period:

There will be a rebuttal period during which the authors can point out misunderstandings or comment on critical questions that the PC members may have. It will take place on **March 27-30**.

Notification:

Authors will be sent notification of acceptance or rejection by e-mail on or before **April 23**. A camera-ready copy of each accepted abstract must be prepared according to the ACM guidelines for inclusion in the proceedings of the conference and must be received by the date to be determined later.

Awards:

Every regular paper is eligible for the **best paper award**. The program committee may decline to make this award or may split the award among multiple papers.

PC Chair: Mohammad T. Hajiaghayi, University of Maryland, College Park

PC Members:

Umut	Acar	Carnegie Mellon University
Susanne	Albers	Technical University of Munich
Hossein	Asadi	Sharif University of Technology
Nikhil	Bansal	Eindhoven University of Technology
Hossein	Bateni	Google Research
Petra	Berenbrink	Simons Fraser University
Keren	Censor-Hillel	Technion
Hubert	Chan	The University of Hong Kong
Rajesh	Chitnis	Weizmann Institute of Science
Frank	Dehne	Carleton University
Martin	Farach-Colton	Rutgers University
Pierre	Fraigniaud	CNRS and University Paris Diderot
Mohsen	Ghaffari	ETH Zurich
Michael	Goodrich	University of California, Irvine
Fabrizio	Grandoni	IDSIA
Mohammad	Hajiaghayi (chair)	University of Maryland, College Park
Martin	Hofer	MPI Informatik, Saarbrücken
Samir	Khuller	University of Maryland
Ravi	Kumar	Google Research
Silvio	Lattanzi	Google Research
Aleksander	Madry	MIT
Friedhelm	Meyer auf der Heide	Paderborn University
Vahab	Mirrokn	Google Research
Morteza	Moemizadeh	Rutgers University
Seffi	Naor	Technion
Boaz	Patt-Shamir	Tel Aviv University
Richard	Peng	Georgia Tech
Giuseppe	Persiano	Università di Salerno
Cynthia A	Phillips	Sandia National Laboratories
Yuval	Rabani	The Hebrew University of Jerusalem
Guerraoui	Rachid	EPFL
Harald	Raecke	TU München
Rajmohan	Rajaraman	Northeastern University
Mauricio	Resende	Amazon
Laura	Sanità	University of Waterloo
Alex	Slivkins	Microsoft Research, NYC
Peter	Varman	Rice University
Roger	Wattenhofer	ETH Zurich
Ryan	Williams	Stanford University and MIT
David	Woodruff	IBM Almaden Research Center