

Call For Papers

1996 ACM Symposium on Theory of Computing (STOC'96)

Participating in the 1996 Federated Computing Research Conference (FCRC'96)
Philadelphia, PA, USA
May 22-24, 1996

The Twenty-Eighth ACM Symposium on Theory of Computing (STOC), sponsored by the ACM Special Interest Group on Algorithms and Computation Theory, will be held in Philadelphia, May 22-24, 1996. Papers presenting original research on theoretical aspects of computer science are sought. Typical, but not exclusive, topics of interest include algorithms and data structures, complexity theory, computational algebra and geometry, computational biology, cryptography, databases, machine learning, algorithmic graph theory, applications of logic, parallel and distributed computation, probabilistic computations, computer architectures and robotics.

Abstract format: An abstract should start with the title of the paper, each author's name, affiliation, and e-mail address, followed by a one-paragraph summary of the results to be presented. This should then be followed by a technical exposition of the main ideas and techniques used to achieve these results. The abstract should be no longer than 4,500 words (roughly 10 pages on letter-size paper using at least 11-point font and reasonable margins). If the authors believe that more details are essential to substantiate the main claims of the paper, they may include a clearly marked appendix that will be read at the discretion of the program committee. Abstracts deviating significantly from these guidelines risk rejection without consideration of their merits.

Abstract submission: Authors are encouraged to submit their extended abstracts and brief announcements electronically. A detailed description of the electronic submission process will be available by Sept. 1, 1995 on the Internet URL <http://www.cs.rpi.edu/stoc96>. You may also obtain instructions as an automatic reply to electronic mail to stoc96@cs.rpi.edu with the subject heading HELP. Unprintable Postscript and late submissions will be rejected. For those unsure of the print-ability of their Postscript, a test printing service will be made available (with details available at the sources listed above). Authors unable to submit electronically are invited to send 20 copies (printed double-sided if possible) of an extended abstract and a cover letter to the program chair (list below). Authors from locations where access to reproduction facilities is severely limited may submit a single copy. The abstract (whether sent by hard copy or by electronic submission) **must** be received by **18:59 EST November 8, 1995** (or postmarked by Nov. 3 and sent via airmail). This is a **firm** deadline.

Simultaneous submissions of the same abstract to at most one other conference with an overlapping deadline is allowed with the following understanding: If the paper is accepted to STOC then the authors agree to submit a camera-ready copy with a copyright (The final submission to the other conference may have to be modified to generate a clear copyright for that conference.) and at least one author will attend STOC and present the paper. If the paper has or will be multiply submitted the first page of the paper should clearly indicate the other conference.

Notification: Authors will be notified of acceptance or rejection by January 12, 1996. A camera-ready copy of each accepted paper is required by February 16, 1996, which is also a **firm** deadline.

Best Student Paper Award: A prize of \$500 will be given to the author(s) of the best student-authored paper (or split between more than one paper if there is a tie). A paper is eligible if all its authors are full-time students at the time of submission. This must be indicated in the submission cover letter.

Committee Members: Sanjeev Arora(Princeton), Jin-Yi Cai(SUNY Buffalo), Alan Frieze(CMU), Erich Kaltofen(RPI), Joe Kilian(NECI), Michel Goemans(MIT), Monika R. Henzinger(Cornell), Maurice Herlihy(Brown), Thomas Lengauer(GMD), Gary L. Miller(CMU), Noam Nisan(Hebrew), Serge Plotkin(Stanford), Pavel Pudlak(Prague), Abhiram Ranade(Berkeley), Ronitt Rubinfeld(Cornell/MIT), Alistair Sinclair(Berkeley), ShangHua Teng(UMN), Les Valiant(Harvard), Vijay Vazirani(Georgia),

Program Chair: Gary L. Miller, Department of Computer Science, Carnegie Mellon University, Pittsburgh, PA 15213-3891, glmiller@cs.cmu.edu

Conference Chair: David S. Johnson, AT&T Bell Labs, Murray Hill, NJ 07974, dsj@research.att.com

THE 1996 FEDERATED COMPUTING RESEARCH CONFERENCE: This year STOC will be a part of the Federated Computing Research Conference (FCRC'96). FCRC'96 is an effort to bring together a spectrum of individual computing research conferences and workshops at a common site and time. Registrants at one conference will be able to freely attend sessions of concurrent conferences. In addition, mornings of FCRC week will begin with joint plenary talks on topics of broad appeal to the computing research community.

Meetings confirmed as participating in FCRC'96 include:

- ACM Conference on Measurement and Modeling of Computer Systems
- ACM International Conference on Functional Programming
- ACM International Conference on Supercomputing
- ACM Symposium on Computational Geometry
- ACM Symposium on Parallel Tools
- ACM Symposium on Principles of Distributed Computing
- ACM Symposium on Theory of Computing
- ACM Workshop on Parallel Algorithms
- ACM Workshop on Parallel and Distributed Simulation
- ACM/IEEE International Symposium on Computer Architecture
- CRA Workshop on Academic Careers for Women
- IEEE Conference on Structure in Complexity Theory
- SIAM Symposium on Networks and Information Management
- SIGPLAN Conference on Programming Design and Implementation

The FCRC's sponsors include ACM (SIGACT, SIGARCH, SIGART, SIGGRAPH, SIGOPS, SIGPLAN, SIGSIM), the Computing Research Association (CRA), the IEEE Computer Society (TCCA, TCMFC, TCS), SIAM, and NSF. Look for further information on FCRC'96 at ACM's homepage <http://acm.org>.