Call for Papers

Computational Complexity

Twenty-third Annual IEEE Conference

http://computationalcomplexity.org

June 23–26, 2008

University of Maryland, College Park

Conference Committee

Eric Allender, Rutgers U.
Paul Beame, U. of Washington
Pierre McKenzie (chair), U. of Montréal
Dieter van Melkebeek, U. of Wisconsin
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Rocco Servedio, Columbia U.
Osamu Watanabe, Tokyo Inst of Tech
Ronald de Wolf, CWI, Amsterdam
David Zuckerman, U. of Texas

Important Dates

Submissions Due:	Dec. 6, 2007
Notification:	Feb. 8, 2008
Final Copies Due:	Apr. 4, 2008

Local Organizing Committee

William Gasarch, U. of Maryland
Richard Chang, U. of Maryland
Marius Zimand, Towson U.

The conference seeks original research papers in all areas of computational complexity theory. We also encourage results from other areas of computer science and mathematics motivated by topics in complexity theory. The following list of possible topics is not exhaustive:

Complexity classes	Circuit complexity
Reducibility and completeness	Communication complexity
Proof complexity	Complexity and logic
Interactive and probabilistic proof systems	Pseudorandomness and derandomization
Inapproximability	Average case complexity
Complexity in other concrete computational models	Algebraic complexity
Kolmogorov complexity	Complexity and learning
Quantum computation	Cryptographic complexity

Submissions must be received electronically by **December 6, 2007, 17:59 PST**, for consideration. See the next page for format guidelines. Submission instructions will be available in October, 2007, at the web site computationalcomplexity.org.

Authors of accepted papers are expected to present their work at the conference. The program committee will determine time allocations for presentations (between 15 and 45 minutes). Conference proceedings will be published by the IEEE Computer Society. Publication in the conference proceedings does not preclude subsequent journal publication.

Sponsors   The conference is sponsored by the IEEE Computer Society Technical Committee for Mathematical Foundations of Computing in cooperation with ACM SIGACT and EATCS.

More Information   Additional information about the conference is available at the web site computationalcomplexity.org,
You may also contact the publicity chair: John Rogers, DePaul University, 243 S. Wabash, Chicago IL 60604, USA; E-mail: jrogers@cs.depaul.edu.

The next page has more details.

Computational Complexity: Additional Details

Electronic Submissions

Only electronic submissions will be considered. Instructions can be found at the permanent conference web site computationalcomplexity.org.

Submissions to other conferences

Abstract material which has been previously published in another conference proceedings or journal or which is simultaneously submitted to another conference with published proceedings may **not** be submitted to Computational Complexity 2008 and will **not** be considered for acceptance. Authors **are** encouraged to submit their papers to the Electronic Colloquium on Computational Complexity (www.eccc.uni-trier.de/eccc/).

Submission Guidelines

The conference has imposed a limitation of twenty pages (in 11 point or larger font) on submissions. This limit includes the bibliography and any technical appendices. Submissions deviating from these guidelines risk summary rejection. The abstract should (i) explain what the paper's major contributions are, (ii) convey why these contributions are interesting, and (iii) tell how these contributions relate to prior work. Authors should make particular effort to write concisely and clearly to facilitate evaluation of their submissions by the program committee.

Final Copies

The instructions for final copies will be communicated to authors of accepted papers.

Ronald V. Book Prize for Best Student Paper

This award will be given to the best paper written solely by one or more students. An abstract is eligible if all authors are full-time students at the time of submission. This should be indicated in the submission registration message. The program committee may decline to make the award or may split it among several papers.

Best Paper Award

This award will be given to the best paper submitted to the conference. This will be awarded by the program committee. The program committee may decline to make the award or may split it among several papers.

Local Arrangements

The conference will be held in the Stamp Union of the University of Maryland at College Park. The university is a Metro ride away from Washington, DC, where you can see many sites including the Washington Monument, the Lincoln Memorial, and the Smithsonian Museums. There are three airports in the area: Reagan National (DCA), Baltimore-Washington International (BWI), and (further away) Dulles Airport (IAD). The area is also easily reached by Amtrak and Greyhound from much of the east coast. The campus website is http://www.umd.edu/.

The reports of vicious raptors with 10-foot (3.048-meter) wingspans, swooping in to carry off unsuspecting members of the College Park population, are greatly exaggerated. In truth, only two or three people a day are carried off. To date, no complexity theorists have been attacked (although a software engineer is missing at present).

Visas

Visa processing by US consulates can take several months. If you are a citizen of one of the countries where the US requires a visa for entry we recommend you start the application process as soon as you think you will be attending the conference. Please contact the conference organizers if you need a letter to help you attain your visa.