

CALL FOR PAPERS  
ESA 2007  
**15th Annual European Symposium on Algorithms**  
Eilat, Israel, October 8-10, 2007

**Program Committee:**

**Design and Analysis Track**

Luca Becchetti, U. of Rome "La Sapienza"  
Harry Buhrman, CWI and U. of Amsterdam  
Bruno Codenotti, IIT-CNR Pisa  
Gérard P. Cornuéjols, CMU, Pittsburgh  
and U. d'Aix-Marseille  
Artur Czumaj, U. of Warwick  
Leslie Ann Goldberg, U. of Liverpool  
Edward A. Hirsch, Steklov Inst. of Math.,  
St. Petersburg  
Nicole Immorlica, Microsoft Research,  
Redmond  
Satoru Iwata, Kyoto U.  
Piotr Krysta, U. of Liverpool  
Zvi Lotker, Ben Gurion U., Beer Sheva  
Dániel Marx, Humboldt-U., Berlin  
Yossi Matias, Google and Tel-Aviv U.  
Jiří Matoušek, Charles U., Prague  
Seth Pettie, U. of Michigan, Ann Arbor  
Eric Torng, Michigan State U.  
Emo Welzl, ETH Zurich (Chair)

**Engineering and Applications Track**

Lars Arge, U. of Aarhus (Chair)  
Mark de Berg, TU Eindhoven  
Irene Finocchi, U. of Rome "La Sapienza"  
Mike Goodrich, UC Irvine  
Kamesh Munagala, Duke U.  
Kirk Pruhs, U. of Pittsburgh  
Rajeev Raman, U. of Leicester  
Peter Sanders, U. of Karlsruhe  
Jan Vahrenhold, U. of Dortmund  
Ke Yi, AT&T Labs Research and HKUST  
Christos Zaroliagis, CTI and U. of Patras

**Important Dates:**

Submission deadline: April 13, 2007  
Notification to authors: June 7, 2007  
Final version due: July 9, 2007  
Symposium: October 8-10, 2007

**ESA/ALGO'07 Organizing Committee:**

Yossi Azar, Tel-Aviv U. and  
Microsoft Research  
Guy Even, Tel-Aviv U.  
Amos Fiat, Tel-Aviv U. (Chair)  
Sefi Naor, Technion and Microsoft Research

**Contact:**

Amos Fiat  
School of Computer Science  
Tel-Aviv University  
Tel-Aviv 69978, Israel  
Email: fiat@tau.ac.il  
Phone: +972 3 640 9161

**Scope:** The symposium covers research in the use, design and analysis of efficient algorithms and data structures in computer science, discrete applied mathematics, operations research and mathematical programming. It has two tracks, which deal respectively with:

- the design and mathematical analysis of algorithms (the "Design and Analysis" track);
- real-world applications, engineering and experimental analysis of algorithms (the "Engineering and Applications" track).

ESA 2007 is sponsored by EATCS (the European Association for Theoretical Computer Science) and organized in the context of ALGO 2007. For updated information see the website [www.algo07.cs.tau.ac.il](http://www.algo07.cs.tau.ac.il).

**Topics:** Papers presenting original research in all areas of algorithmic research are sought, including but not limited to: Algorithmic Aspects of Networks; Approximation and On-line Algorithms; Computational Biology; Computational Finance and Algorithmic Game Theory; Computational Geometry; Data Structures; Databases and Information Retrieval; External-Memory Algorithms; Streaming Algorithms, Graph and Network Algorithms; Graph Drawing; Machine Learning; Mobile and Distributed Computing; Pattern Matching and Data Compression; Quantum Computing; Randomized Algorithms; Algorithm libraries. The algorithms may be sequential, distributed or parallel. Submissions are especially encouraged in the areas of mathematical programming and operations research, including Combinatorial Optimization, Integer Programming, Polyhedral Combinatorics and Network Optimization.

**Submissions:** Authors are invited to submit an extended abstract or full paper of at most 12 pages. The paper should contain a succinct statement of the issues and of their motivation, a summary of the main results, and a brief explanation of their significance, accessible to non-specialist readers. Proofs omitted due to space constraints can be put into an appendix to be read by the program committee members at their discretion. Papers must be submitted electronically; procedures for electronic submission will be available on the ESA 2007 website.

(Design and Analysis Track)  
Emo Welzl  
Inst. of Theoretical Computer Science  
ETH Zürich  
CH-8092 Zürich  
Switzerland

(Engineering and Applications Track)  
Lars Arge  
Department of Computer Science  
University of Aarhus  
DK-8200 Aarhus N  
Denmark

Simultaneous submission to other conferences with published proceedings, or to both tracks of ESA 2007, is not permitted. A paper submitted to one track of ESA 2007 may be switched to the other track if, in the opinion of the PC chairs, the paper is better suited to the other track. Authors are expected to present their accepted papers at the conference. ESA 2007 offers the *EATCS award for the best student paper* at ESA 2007. Please indicate *student paper* on the front page of the submission if all authors are students. Starting this year, ESA also offers the *EATCS best paper award* acknowledging the best ESA contribution of the year.

**Proceedings:** Accepted papers will be published in the Springer series Lecture Notes in Computer Science. Each paper will receive an allotment of 12 pages in the proceedings in LNCS-style. Previous proceedings of ESA, 2001 in Aarhus, 2002 in Rome, 2003 in Budapest, 2004 in Bergen, 2005 in Mallorca, and 2006 in Zürich, appeared as LNCS 2161, 2461, 2832, 3221, 3669 and 4168. Previous proceedings of the precursor to the Engineering and Applications track, the Workshop on Algorithm Engineering, held in 1999 in London, 2000 in Saarbrücken and 2001 in Aarhus, appeared as LNCS 1668, 1982 and 2141.