CALL FOR PAPERS

ICALP 2004

31st International Colloquium on

Automata, Languages and Programming

July 12–16, 2004, Turku, Finland

CONFERENCE CHAIR

Juhani Karhumäki
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Joint ICALP-LICS
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A. Razborov (Princeton & Moscow)
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ICALP
P. Flajolet (INRIA)
M. Henzinger (Google)
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The 31st International Colloquium on Automata, Languages and Programming sponsored by the European Association of Theoretical Computer Science will take place in Turku, on July 12–16, 2004. It is organised at Turku University by the Department of Mathematics and Turku Centre for Computer Science. ICALP04 is colocated with the 19th International Conference on Logic in Computer Science (LICS04). In addition, satellite workshops are planned.

Papers presenting original research on all aspects of theoretical computer science are sought. Typical but not exclusive topics of interest are:

Track A:
Algorithmic aspects of parallel and distributed computing
Algorithms and data structures
Algorithms and models for large networks
Algorithms for computationally hard problems
Automata theory and formal languages
Bioinformatics
Computational complexity
Combinatorics and structures in Computer Science
Cryptography
Machine learning
Molecular computing, neural and evolutionary algorithms
Proof complexity
Quantum computing

Track B:
Algebraic and categorical models
Applications of automata in logic
Concurrency, mobility and distributed systems
Databases, semi-structured data and finite model theory
Logics and their applications
Principles of programming languages
Program logics, formal methods and model checking
Security analysis and verification
Semantics of programming languages
Specification, refinement and verification
Type systems and typed calculi

SUBMISSIONS

Authors are invited to submit a paper of no more than 12 pages in LNCS-style, presenting original research on the theory of computer science, see *http://www.math.utu.fi/ICALP04/* for submission details. Submissions should indicate which track the paper is submitted to. No simultaneous submission to other conferences with published proceedings is allowed. Accepted papers will be published in the Lecture Notes in Computer Science by Springer.

CONTACT ADDRESS

For further information see: *http://www.math.utu.fi/ICALP04/* or contact: *ICALP04@cs.utu.fi*, *karhumak@cs.utu.fi*

IMPORTANT DATES

Workshop proposals: November 30, 2003
Submissions: February 8, 2004
Notification: March 31, 2004
Final version: April 27, 2004