Call for Papers - ICALP 2011
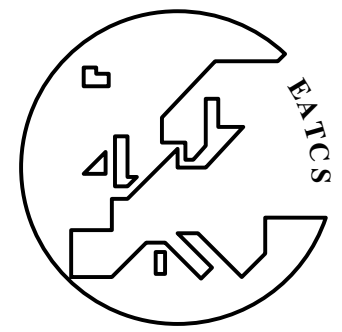# 38th International Colloquium on Automata, Languages and Programming
July 4-8, 2011, Zürich, switzerland

http://icalp11.inf.ethz.ch/

The 38th International Colloquium on Automata, Languages and Programming, the main conference and annual meeting of the European Association for Theoretical Computer Science (EATCS), will take place from the 4th to the 8th of July 2011 in Zürich, Switzerland. The main conference will be preceded and/or followed by a series of workshops.

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

Track A: Algorithms, Complexity and Games

Algorithmic Game Theory - Approximation Algorithms - Combinatorial Optimization - Combinatorics in Computer Science - Computational Biology - Computational Complexity - Computational Geometry -Cryptography - Data Structures - Design and Analysis of Algorithms - Machine Learning - Parallel, Distributed and External Memory Computing - Randomness in Computation - Quantum Computing

Track B: Logic, Semantics, Automata and Theory of Programming

Algebraic and Categorical Models - Automata Theory, Formal Languages - Emerging and Non-standard Models of Computation - Databases, Semi-Structured Data and Finite Model Theory - Principles of Programming Languages - Logics, Formal Methods and Model Checking - Models of Concurrent, Distributed, and Mobile Systems - Models of Reactive, Hybrid and Stochastic Systems - Program Analysis and Transformation - Specification, Refinement and Verification - Type Systems and Theory, Typed Calculi

Track C: Foundations of Networked Computation: Models, Algorithms and Information Management

Algorithmic Aspects of Networks - E-commerce, Privacy, Spam - Formal Methods for Network Information Management - Foundations of Trust and Reputation in Networks - Algorithms and Models for Mobile and Wireless Networks and Computation - Models of Complex Networks - Models and Algorithms for Global Computing - Network Economics and Incentive-Based Computing Related to Networks - Models and Algorithms for Networks of Low Capability Devices - Overlay Networks and P2P Systems - Social Networks - Specification, Semantics, Synchronization of Networked Systems - Theory of Security in Networks and Distributed Computing - Web Searching and Ranking - Web Mining and Analysis

Invited speakers:

- Rajeev Alur (Univ. Pennsylvania)
- Thore Husfeldt (ITU Copenhagen)
- Catuscia Palamidessi (INRIA Saclay and LIX)
- Ronen Shaltiel (Univ. Haifa)
- Eva Tardos (Cornell Univ.)

Best paper awards:

As in previous editions of ICALP, there will be best paper and best student paper awards for each track of the conference. In order to be eligible for a best student paper award, a paper should be authored only by students and should be marked as such upon submission.

Important Dates:

- Submission Deadline: Feb 15, 2011
- Author Notification: Apr 12, 2011
- Final Manuscript Due: April 28, 2011

Submission Guidelines:

Authors are invited to submit an extended abstract of no more than 12 pages in LNCS style presenting original research on the theory of Computer Science. Submissions should indicate to which track (A, B, or C) the paper is submitted. No prior publication or simultaneous submission to other publication outlets (either a conference or a journal) is allowed. The proceedings will be published in the Lecture Notes in Computer Science Series by Springer-Verlag.

It is strongly recommended that submissions adhere to the specified format and length. Submissions that are clearly too long may be rejected immediately. Material other than the abstract, references and the first 12 pages may be considered as supplementary and will be read at the committee's discretion.

Programm Committees:

TRACK A: ALGORITHMS, COMPLEXITY AND GAMES

Nikhil Bansal, IBM Watson
Harry Buhrman, CWI Amsterdam
Marek Chrobak, UC Riverside
Martin Dietzfelbinger, TU Ilmenau
Thomas Erlebach, Univ. Leicester
Fedor V. Fomin, Univ. Bergen
Dimitris Fotakis, National TU Athens
Ricard Gavaldà, UPC Barcelona
Russell Impagliazzo, UC San Diego
Juhani Karhumäki, Univ. Turku
Howard Karloff, AT&T Labs - Research
Michal Koucký, ASCR Prague
Dariusz Kowalski, Univ. Liverpool
Stefano Leonardi, Sapienza Univ. Rome
Gonzalo Navarro, Univ. Chile
Rolf Niedermeier, TU Berlin
Rafail Ostrovsky, UC Los Angeles
Günter Rote, FU Berlin
Christian Scheideler, Univ. Paderborn
Maria Serna, UPC Barcelona
Jiří Sgall, Charles Univ. Prague (chair)
Gábor Tardos, Simon Fraser Univ.
Jan Vondrák, IBM Almaden
Uli Wagner, ETH Zürich
Prudence W. H. Wong, Univ. Liverpool

TRACK B: LOGIC, SEMANTICS, AUTOMATA AND THEORY OF PROGRAMMING

Luca Aceto, Reykjavik Univ. (chair)
Anuj Dawar, Univ. Cambridge
Rocco De Nicola, Univ. Firenze
Zoltán Ésik, Univ. Szeged
Wan Fokkink, VU Amsterdam
Herman Geuvers, Univ. Nijmegen
Radha Jagadeesan, DePaul Univ.
Jarkko Kari, Univ. of Turku
Joost-Pieter Katoen, RWTH Aachen
Orna Kupferman, Hebrew Univ. Jerusalem
François Laroussinie, Paris Diderot
Carroll Morgan, UNSW Sydney
Anca Muscholl, LaBRI Bordeaux
Hanne Riis Nielson, DTU Copenhagen
Prakash Panangaden, McGill Univ.
Joachim Parrow, Uppsala Univ.
Reinhard Pichler, TU Wien
Roberto Segala, Univ. Verona
Helmut Seidl, TU München
Alex Simpson, Univ. Edinburgh
Pawel Urzyczyn, Warsaw Univ.

TRACK C: FOUNDATIONS OF NETWORKED COMPUTATION: MODELS, ALGORITHMS AND INFORMATION MANAGEMENT

Gilles Barthe, IMDEA Madrid
András Benczúr, Eötvös Univ. Budapest
Edith Cohen, AT&T Labs - Research
Joan Feigenbaum, Yale Univ.
Amos Fiat, Tel Aviv Univ.
Lisa Fleischer, Dartmouth College
Georg Gottlob, Oxford Univ.
Monika Henzinger, Univ. Wien (chair)
Bruce Maggs, Duke Univ.
Massimo Merro, Univ. Verona
Vahab Mirrokni, Google New York
Alessandro Panconesi, Sapienza Univ. Rome
Giuseppe Persiano, Univ. Salerno
Anna Philippou, Univ. Cyprus
Davide Sangiorgi, Univ. Bologna and INRIA
Vladimiro Sassone, Univ. Southhampton
Andrew Tomkins, Google Mountain View
Dorothea Wagner, KIT
Roger Wattenhofer, ETH Zürich
Ingmar Weber, Yahoo Barcelona

Conference Chairs:

Michael Hoffmann, Juraj Hromkovič, Ueli Maurer, Angelika Steger, Emo Welzl, Peter Widmayer, ETH Zürich
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Conference Secretariat:

Andrea Salow, ETH Zürich

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