

# CALL FOR PAPERS

ICALP 2010

## 37th International Colloquium on Automata, Languages and Programming

July 5–12, 2010, Bordeaux, France

Supported by the European Association for Theoretical Computer Science (EATCS)

<http://icalp10.inria.fr/>

The 37th 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 5th to the 12th of July 2010 in Bordeaux, France. The main conference will be preceded and 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:

<p><b>Track A</b> – Algorithms, Complexity and Games</p> <p><b>Topics:</b> Algorithmic Game Theory • Approximation Algorithms • Combinatorics in Computer Science • Computational Biology • Computational Complexity • Computational Geometry • Cryptography • Data Structures • Design and Analysis of Algorithms • Internet Algorithmics • Machine Learning • Parallel, Distributed and External Memory Computing • Randomness in Computation • Quantum Computing</p>	<p><b>Track B</b> – Logic, Semantics, Automata and Theory of Programming</p> <p><b>Topics:</b> Algebraic and Categorical Models • Automata Theory, Formal Languages • Non-standard Approaches to Computability • 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</p>	<p><b>Track C</b> – Foundations of Networked Computation: Models, Algorithms and Information Management</p> <p><b>Topics:</b> Algorithmic Aspects of Networks • Auctions • Computing with Incentives • E-commerce, Privacy, Spam • Formal Methods for Network Information Management • Foundations of Trust and Reputation in Networks • Internet Algorithmics • Mobile and Wireless Networks • Models of Complex Networks • Models and Algorithms for Global Computing • Models of Mobile Computation • Networks Economics • 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, Ranking • Web Mining and Analysis</p>
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### Invited Speakers:

- Pierre Fraigniaud (CNRS and Univ. Paris Diderot)
- Jean Goubault-Larrecq (ENS Cachan and LSV)
- Burkhard Monien (Univ. Paderborn)
- Joel Ouaknine, (Oxford Univ. Computing Lab.)
- Roger Wattenhofer (ETH Zurich)
- Emo Welzl (ETH Zurich)

### Important Dates:

- Submission Deadline: ..... **Feb 10, 2010**
- Author Notification: ..... **Apr 6, 2010**
- Final Manuscript Due: ..... **Apr 27, 2010**

### 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 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 recommended that submissions adhere to the specified format and length. Submissions that are clearly too long may be rejected immediately. Additional material intended for the referee but not for publication in the final version - for example details of proofs - may be placed in a clearly marked appendix that is not included in the page limit.

**Conference Chairs:**

- Cyril Gavoille, Univ. of Bordeaux (LaBRI) & INRIA, Bordeaux.
- Claude Kirchner, INRIA, Bordeaux.

**Program Committees:**

<p><b>Track A.</b> – Algorithms, Complexity and Games</p> <ul style="list-style-type: none"> <li>• Dimitris Achlioptas, Univ. Santa Cruz</li> <li>• Kwstis Daskalakis, MIT</li> <li>• Anuj Dawar, Cambridge Univ.</li> <li>• Xiaotie Deng, City Univ. Hong Kong</li> <li>• Philippe Flajolet, INRIA</li> <li>• Michelle Flammini, Univ. L'Acquila</li> <li>• Oscar Ibarra, UCSB (Santa Barbara)</li> <li>• Giuseppe Italiano, Univ. Roma 2</li> <li>• Kazuo Iwama, Univ. Kyoto</li> <li>• Klaus Jansen, Univ. Kiel</li> <li>• Elias Koutsoupias, Univ. Athens</li> <li>• Ludek Kucera, Charles Univ.</li> <li>• Daniel Marx, Budapest Univ.</li> <li>• Burkhard Monien, U Paderborn</li> <li>• Amin Coja Oghlan, Univ. Edinburgh</li> <li>• Tonyann Pitassi, Univ. Toronto</li> <li>• John Reif, Duke Univ.</li> <li>• Jose Rolim, Univ. Geneva</li> <li>• Paul Spirakis, Univ. Patras and RACTI (PC Chair)</li> <li>• Leslie Valiant, Harvard Univ.</li> <li>• Emo Welzl, ETH</li> <li>• Gerhard Woeginger, Univ. Eindhoven</li> </ul>	<p><b>Track B</b> – Logic, Semantics, Automata and Theory of Programming</p> <ul style="list-style-type: none"> <li>• Samson Abramsky, Oxford Univ. (PC Chair)</li> <li>• Luca Aceto, Univ. Rejkjavik</li> <li>• Lars Birkeedal, Univ. Copenhagen</li> <li>• Mikolaj Bojanczyk, Univ. Warsaw</li> <li>• Patricia Bouyer, CNRS, LSV Cachan</li> <li>• Josée Desharnais, Univ. Laval</li> <li>• Gilles Dowek, Ecole Polytechnique &amp; INRIA</li> <li>• Manfred Droste, Univ. Leipzig</li> <li>• Peter Dybjer, Univ. Chalmers</li> <li>• Jose Felix Costa, Univ. Lisbon</li> <li>• Phokion Kolaitis, IBM Almaden</li> <li>• Ugo Dal Lago, Univ. Bologna</li> <li>• Daniel Leivant, Univ. Indiana</li> <li>• Andrzej Murawski, Oxford Univ.</li> <li>• Filip Murlak, Univ. Warsaw</li> <li>• Flemming Nielsen, Univ. Copenhagen</li> <li>• Dominique Perrin, Univ. Paris Est</li> <li>• Alex Rabinovich, Univ. Tel Aviv</li> <li>• Lutz Schroder, DFKI Bremen</li> <li>• Ian Stark, Univ. Edinburgh</li> </ul>	<p><b>Track C</b> – Foundations of Networked Computation: Models, Algorithms and Information Management</p> <ul style="list-style-type: none"> <li>• Debora Donato, Yahoo! Research Barcelona</li> <li>• Faith Ellen, Univ. Toronto</li> <li>• Phil Gibbons, Intel Research Pittsburgh</li> <li>• Rob van Glabbeek, Stanford Univ. and National ICT Australia</li> <li>• Monika Henzinger, EPFL Lausanne</li> <li>• Christos Kaklamanis, Univ. of Patras</li> <li>• Fabian Kuhn, MIT</li> <li>• Mirosław Kutyłowski, Wrocław University of Technology</li> <li>• Christian Lengauer, Univ. Passau</li> <li>• Stefano Leonardi, Sapienza Univ. of Rome</li> <li>• Friedhelm Meyer auf der Heide, Univ. Paderborn (PC chair)</li> <li>• Dusko Pavlovic, Oxford Univ. and Kestrel Institute</li> <li>• Andrzej Pelc, Univ. du Québec en Outaouais</li> <li>• Giuseppe Persiano, Univ. Salerno</li> <li>• Frank Pfenning, CMU</li> <li>• Geppino Pucci, Univ. Padova</li> <li>• Christian Scheideler, Univ. Paderborn</li> <li>• Nir Shavit, Tel Aviv Univ.</li> <li>• Berthold Vöcking, RWTH Aachen</li> <li>• Gerhard Weikum, MPI-Saarbrücken</li> </ul>
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**Workshops Chair:**

- Ralf Klasing, CNRS & Univ. Bordeaux (LaBRI) & INRIA

**Publicity Chairs:**

- Nicolas Bonichon, Univ. Bordeaux (LaBRI) & INRIA
- Lionel Eyraud-Dubois, INRIA & Univ. Bordeaux (LaBRI)
- Frédéric Mazoit, Univ. Bordeaux (LaBRI)

**Conference Secretariat:**

- Laetitia Grimaldi, INRIA, Bordeaux