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Automata, Languages and Programming

37th International Colloquium, ICALP 2010
Bordeaux, France, July 6-10, 2010
Proceedings, Part I

Volume Editors

Samson Abramsky
Oxford University Computing Laboratory
Wolfson Building, Parks Road, Oxford OX1 3QD, UK
E-mail: samson.abramsky@comlab.ox.ac.uk

Cyril Gavoille
Université de Bordeaux (LaBRI) & INRIA
351, cours de la Libération, 33405 Talence Cedex, France
E-mail: gavoille@labri.fr

Claude Kirchner
INRIA, Centre de Recherche Bordeaux – Sud-Ouest
351 cours de la Libération, 33405 Talence Cedex, France
E-mail: claude.kirchner@inria.fr

Friedhelm Meyer auf der Heide
Heinz Nixdorf Institute, University of Paderborn
Fürstenallee 11, 33102 Paderborn, Germany
E-mail: fmadh@upb.de

Paul G. Spirakis
University of Patras and RACTI
26500 Patras, Greece
E-mail: spirakis@cti.gr

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Preface

ICALP 2010, the 37th edition of the International Colloquium on Automata, Languages and Programming was held July 6-10, 2010 in Bordeaux, France. ICALP is a series of annual conference of the European Association for Theoretical Computer Science (EATCS) which first took place in 1972, organized by Maurice Nivat and his colleagues in Paris. This year, the program consisted of the established track A, focusing on Algorithms, Complexity and Games, chaired by Paul G. Spirakis; Track B, focusing on Logic, Semantics, Automata and Theory of Programming, chaired by Samson Abramsky; Track C focusing this year on Foundations of Networked Computation: Models, Algorithms and Information Management, chaired by Friedhelm Meyer auf der Heide.

The three Program Committees received a total of 389 submissions: 222 for Track A, 114 for Track B and 53 for Track C, written by authors from 45 different countries. Of these, 60, 30 and 16, respectively, were selected for inclusion in the scientific program. Each paper got on average 3.5 referee reports.

The Program also included six invited talks by 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), and Emo Welzl (ETH Zurich).

These 112 contributed and invited papers are presented in two proceedings volumes. The first contains the contributed papers of Track A and the invited talks of Burkhard Monien and Emo Welzl. The second volume contains the contributed papers of Tracks B and C as well as the invited talks of Pierre Fraigniaud, Jean Goubault-Larrecq, Joel Ouaknine and Roger Wattenhofer.

The day before the main conference, five satellite workshops were held:

- AlgoGT : Workshop on Algorithmic Game Theory: Dynamics and Convergence in Distributed Systems
- DYNAS 2010: International Workshop on DYNAMIC Networks: Algorithms and Security
- ALGOSENSORS 2010: International Workshop on Algorithmic Aspects of Wireless Sensor Networks
- SDKB 2010: Semantics in Data and Knowledge Bases
- TERA-NET: Towards Evolutive Routing Algorithms for Scale-Free/Internet-Like Networks.

We wish to thank all the authors of submitted papers, all the members of the three Program Committees for their scholarly effort and all 737 referees who assisted the Program Committees in the evaluation process.

We are very pleased to thank INRIA for organizing the conference, LaBRI for their collaboration, and the sponsors (Conseil Rgional d'Aquitaine, Communauté Urbaine de Bordeaux, CEA, CNRS via the GDR IM, Total) for their strong support. We are also very grateful to Ralf Klasing for chairing the workshop

organization and to all the members of the Organizing Committee: Laëtitia Grimaldi, Alice Rivière, Nicolas Bonichon, Pierre Casteran, Lionel Eyraud-Dubois and Frédéric Mazoit.

It is also our great pleasure to acknowledge the use of the EasyChair conference management system, which was of tremendous help in handling the submission and refereeing processes as well as in intelligently assisting us in the design of the final proceedings.

May 2010

Samson Abramsky
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