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Computer Science Logic

24th International Workshop, CSL 2010
19th Annual Conference of the EACSL
Brno, Czech Republic, August 23-27, 2010
Proceedings

Volume Editors

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Preface

The annual conference of the European Association for Computer Science Logic (EACSL), CSL 2010, was held in Brno (Czech Republic), August 23–27, 2010. The conference started as a series of international workshops on Computer Science Logic, and then at its sixth meeting became the Annual Conference of the EACSL. This conference was the 24th meeting and 19th EACSL conference; it was organized at the Faculty of Informatics, Masaryk University, Brno.

In 2010, CSL and the 35th International Symposium on Mathematical Foundations of Computer Science (MFCS 2010) were federated and organized in parallel at the same place. The technical program and proceedings of MFCS 2010 and CSL 2010 were prepared independently. The federated MFCS and CSL 2010 conference had five common plenary sessions and common social events for all participants. The common plenary speakers were David Basin (Zürich), Herbert Edelsbrunner (Klosterneuburg), Erich Grädel (Aachen), Bojan Mohar (Burnaby, Ljubljana), and Joseph Sifakis (Grenoble). Invited papers by David Basin and Erich Grädel were included in the proceedings of CSL. In addition, CSL 2010 had five invited speakers, namely, Peter O’Hearn (London), Jan Krajíček (Prague), Andrei Krokhin (Durham), Andrey Rybalchenko (Munich), and Viktor Kuncak (Lausanne).

In response to the call for papers, a total of 122 abstracts were registered and 103 of these were followed by full papers submitted to CSL 2010. The Programme Committee selected 33 papers for presentation at the conference and publication in these proceedings. Each paper was reviewed by at least four members of the Programme Committee. In the call for papers, authors were encouraged to include a well written introduction. One of the four Programme Committee members for each paper was assigned as a “non-expert reviewer” whose main task was to assess accessibility of the introduction to the computer science logic community at large.

The federated MFCS and CSL 2010 symposium was accompanied by the following satellite workshops on more specialized topics:

- *Program Extraction and Constructive Proofs / Classical Logic and Computation: Joint Workshop in Honor of Helmut Schwichtenberg*, organized by Steffen van Bakel, Stefano Berardi, Ulrich Berger, Hannes Diener, Monika Seisenberger, and Peter Schuster
- *Randomized and Quantum Computation*, organized by Rūsiņš Freivalds
- *Workshop on Fixed Points in Computer Science (FICS)*, organized by Zoltán Ésik and Luigi Santocanale
- *Young Researchers Forum*, organized by Jan Strejček
- *Theory and Algorithmic Aspects of Graph Crossing Number*, organized by Drago Bokal, Petr Hliněný, and Gelasio Salazar
- *YuriFest: Symposium on Logic in Computer Science Celebrating Yuri Gurevich’s 70th Birthday*, organized by Nachum Dershowitz

- *International Workshop on Reachability Problems*, organized by Igor Potapov and Antonín Kučera
- *Games and Probabilistic Models in Formal Verification*, organized by Tomáš Brázdil and Krishnendu Chatterjee
- *Mathematical Foundations of Fuzzy Logics*, organized by Agata Ciabattoni
- *International Workshop on Categorical Logic*, organized by Jiří Rosický
- *Logic, Combinatorics and Computation*, organized by Bruno Courcelle, Petr Hliněný, and Johann A. Makowsky
- *Parametrized Complexity of Computational Reasoning*, organized by Stefan Szeider

We sincerely thank the Programme Committee and all of the referees for their help in reviewing the papers. We also thank the local organizers for their help in the organization of the conference and the smooth collaboration with MFCS, in particular Tony Kucera and Jan Bouda. The conference received support from the *European Research Consortium in Informatics and Mathematics (ERCIM)* and the Czech national research center *Institute for Theoretical Computer Science (ITI)*. We are grateful to these institutions for their sponsorship.

August 2010

Anuj Dawar
Helmut Veith

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