Foreword

This volume contains the proceedings of the twenty-fourth Annual IEEE Symposium on Logic in Computer Science (LICS 2009). LICS is an annual international forum on topics that lie at the intersection of computer science and mathematical logic. LICS 2009 was held at UCLA in Los Angeles, California, USA, August 11th-14th, 2009. The symposium program included invited lectures by John Baez (University of California, Riverside) and Edmund M. Clarke (Carnegie Mellon University); and invited tutorials by Dan Ghica (University of Birmingham, UK) and Ben Rossman (MIT). The first day of the symposium was held jointly with the co-located 16th International Static Analysis Symposium (SAS 2009). The following workshops were co-located with LICS 2009:

- Logics for Agents and Mobility (LAM)
- Foundations of Computer Security (FCS)
- Logic and Computational Complexity (LCC)
- Normalization by Evaluation (NBE)
- Logical Aspects of Fault Tolerance (LAFT)
- Proof-carrying code and software certification (PCC)

The 39 contributed papers in this volume were selected from the 130 papers that were submitted. Each submission was initially reviewed by four members of the programme committee. In some cases, the committee chose to consult additional reviewers whose names are listed later in this volume. The programme committee did not meet in person, but carried out extensive electronic discussion over a period of two weeks. I would like to thank my fellow program committee members for all their hard work selecting a high quality and stimulating program of contributed papers and advising on invited speakers. On behalf of the LICS community, I thank all authors who submitted papers for consideration, and the invited speakers.

Another task of the program committee was to decide whether to make an award for the best paper by a student. The committee was impressed by a number of the eligible papers, but in the end decided to select the paper by Oliver Friedmann entitled “An Exponential Lower Bound for the Parity Game Strategy Improvement Algorithm as We Know it” as the winner of the 2009 Kleene Award for Best Student Paper.

The LICS Symposium series has been running since 1986. The foundational nature of much work appearing in LICS means that its impact is often not fully felt for some years. Therefore for the last few years a Test-of-Time Award has been made recognizing a small number of influential papers which appeared in the LICS proceedings from 20 years prior that have best met the “test of time”. This year the Award Committee, consisting of Rohit Parikh (Chair), Phokion Kolaitis, and Glynn Winskel, selected the paper by Eugenio Moggi entitled “Computational Lambda-Calculus and Monads” as winner of the 2009 LICS Test-of-Time Award (for papers from LICS 1989). The ideas and results in this paper have had a great unifying and systematizing influence in the study of the semantics of computation. The paper also has had a widespread influence on the theory of programming languages; monads are now a standard tool in modifying types. On behalf of the LICS Organizing Committee, the LICS Advisory Board, and the LICS Test-of-Time Award Committee, I would like to congratulate Eugenio Moggi for this much deserved recognition of his work.

Special thanks are due to Jens Palsberg for all his efforts as LICS 2009 Conference Chair, to the LICS General Chair Martin Abadi for his wise advice, to Stephan Kreutzer and Nicole Schweikardt for their assistance as LICS Publicity Co-Chairs, and to Adriana Compagnoni and Maribel Fernández for their work as Workshop Co-Chairs. I gratefully acknowledge use of the EasyChair conference management system, which hugely facilitated the work of the LICS Program Committee. Finally, LICS 2009 is very grateful to Google and to Microsoft Research for their financial support.

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