Preface

This volume collects papers presented at the 30th Annual Conference on Mathematical Foundations of Programming Semantics (MFPS XXX), held on the campus of Cornell University, Ithaca, New York, USA, from Thursday, June 12 through Sunday, June 15, 2014. The MFPS conferences are devoted to those areas of mathematics, logic, and computer science that are related to models of computation in general and to the semantics of programming languages in particular. The series particularly stresses providing a forum where researchers in mathematics and computer science can meet and exchange ideas about problems of common interest. As the series also strives to maintain breadth in its scope, the conference strongly encourages participation by researchers in neighboring areas.

The Organizing Committee for MFPS consists of Andrej Bauer (Ljubljana), Stephen Brookes (CMU), Achim Jung (Birmingham), Catherine Meadows (NRL), Michael Mislove (Tulane), Joël Ouaknine (Oxford) and Prakash Panangaden (McGill). The local arrangements for MFPS XXX were overseen by Dexter Kozen.

The MFPS XXX Program Committee members are:

Bart Jacobs, Alexandra Silva, Sam Staton (Co-chairs),
Radboud University Nijmegen

- Steve Awodey, CMU
- Andrej Bauer, Ljubljana
- Stephen Brookes, CMU
- Pierre Clairambault, ENS Lyon
- Martín Escardo, Birmingham
- Fabio Gadducci, Pisa
- Ichiro Hasuo, Tokyo
- Martin Hofmann, LMU München
- Achim Jung, Birmingham
- Shin-ya Katsumata, Kyoto
- Naoki Kobayashi, Tokyo
- Dexter Kozen, Cornell

- Conor McBride, Strathclyde
- Guy McCusker, Bath
- Annabelle McIver, Macquarie
- Catherine Meadows, Naval Research Lab
- Stefan Milius, Erlangen-Nürnberg
- Michael Mislove, Tulane

- Rasmus Mogelberg, ITU Copenhagen
- Joël Ouaknine, Oxford
- Prakash Panangaden, McGill
- Daniela Petrisan, ENS Lyon
- Alex Simpson, Edinburgh
- Jamie Vicary, Oxford

- Nobuko Yoshida, Imperial College

The Program Committee selected 16 out of 32 submitted papers for presentation at the meeting.

The Organizing Committee selected the following people to give invited plenary talks at the meeting:

- Nick Benton, Microsoft Research, Cambridge, UK
- Andy Gordon, Microsoft Research, Cambridge, UK
- Elham Kashefi, University of Edinburgh, UK
- Dexter Kozen, Cornell University, USA
- Prakash Panangaden, McGill University, Canada
- Alexandra Silva, Radboud University, Nijmegen, The Netherlands

In addition, two of these invited speakers organised special sessions:

- A Special Session on Probabilistic Computing, organized by Andy Gordon, including invited talks by Daniel M. Roy (Cambridge) and Chung-chieh Shan (Indiana);
- A Special Session on Quantum Computing, organized by Elham Kashefi, including invited talks by Mark Hillery (CUNY) and Bart Jacobs (Radboud).

The meeting also included a series of Tutorial Lectures on the theme of Markov Processes given by Prakash Panangaden (McGill), Josée Desharnais (Laval), Radu Mardare (Aalborg) and Doina Precup (McGill).

It remains for us to thank all authors and speakers, the organizers of special sessions, the program committee, and the external referees for their contribution to the success of the conference. We would also like to thank the US Office of Naval Research for its continued support of the MFPS series. Finally, we would like to thank Cornell University for providing the venue and the local staff who helped with the preparations and execution of the conference, especially Michelle Eighmey amd Molly Trufant.

Bart Jacobs
Alexandra Silva
Sam Staton