Preface

This volume contains the proceedings of the The Thirty-third Conference on the Mathematical Foundations of Programming Semantics (MFPS XXXIII). The conference was held in Ljubljana, Slovenia, between June 12th and June 15th 2017. 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 has particularly stressed 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 neighbouring areas.

The Program Committee (PC) of MFPS XXXIII consisted of

Gilles Barthe	IMDEA Software Institute
Andrej Bauer	University of Ljubljana
Stephen Brookes	Carnegie Mellon University
Carla Ferreira	CITI/DI/FCT/UNL
Nate Foster	Cornell University
Chris Heunen	University of Edinburgh
Justin Hsu	University of Pennsylvania
Achim Jung	University of Birmingham
Elham Kashefi	School of Informatics — University of Edinburgh
Clemens Kupke	University of Strathclyde
Barbara König	Universitaet Duisburg-Essen
Catherine Meadows	NRL
Michael Mislove	Tulane University
Joel Ouaknine	Max Planck Institute for Software Systems
Alessandra Palmigiano	Technical University of Delft
Prakash Panangaden	McGill University
Daniela Petrisan	Université Paris Diderot — Paris 7
Brigitte Pientka	McGill University
Jurriaan Rot	Radboud University Nijmegen

Mehrnoosh Sadrzadeh	Queen Mary University of London
Alexandra Silva	University College London
Ana Sokolova	University of Salzburg
Valeria Vignudelli	University of Bologna — INRIA

I am deeply indebted to the PC for all the reviews and constructive discussions. The help of several outside referees is also gratefully acknowledged. My work as PC chair was certainly made easier by the professionalism of the PC members. We ran the review process under what is now known as the *Kozen code*, introduced at MFPS XXIX when Dexter Kozen chaired the conference:

> *As program committee members, our responsibility is to choose a program of the highest possible scientific quality from the submissions we are given, and we must take this responsibility seriously. On the other hand, we should be aware of our limitations as reviewers and the inherent subjectivity of the reviewing process. With that in mind, please read each paper with an initially favourable eye. Look for the positive in every paper, rather than merely searching for excuses to reject it. Please be constructive in your criticism and provide helpful comments where appropriate. Resist the impulse to use demeaning language or sarcasm in your reviews, no matter how tempting it may be. If the paper has missed a few references that you know about, please supply full citations, do not just take this as an excuse for rejection. Please also keep in mind that this is a conference, not a journal, so perfection in the presentation should not be expected. If the paper contains an interesting new idea, just because it is not completely polished is no reason for rejection.*

The program committee and the MFPS organizing committee selected several invited speakers and tutorial speakers. The invited speakers at the conference were

- Laura Kovacs, TU Wien.
- Dexter Kozen, Cornell University.
- Rehana Patel, Olin College.
- Amr Sabry, Indiana University.

The conference also included four special sessions, featuring invited tutorials given by the special session organizers:

- Advances in Concurrent Program Verification, organized by Derek Dreyer (MPI-SWS, Germany) which included talks by Robbert Krebbers (Delft University of Technology, The Netherlands), Jacques-Henri Jourdan (MPI-SWS, Germany), and Mike Dodds (University of York, UK).
- Foundations of Network Programming, in honour of Dexter Kozen's 65th Birthday, organized by Nate Foster (Cornell University, USA), which included talks by Zack Tatlock (Washington University, USA), Martin Vechev (ETH Zurich, Switzerland), and Loris D'Antoni (University of Wisconsin–Madison, USA).
- Algebraic Automata Theory, organized by Laure Daviaud (Warsaw University, Poland) which included talks by Mai Gehrke (IRIF, France), Stefan Milius (Erlangen University, Germany), and Jean-Eric Pin (IRIF and CNRS, France).

- Metrics and Privacy, joint with CALCO 2017, organized by Ben Worrell (Oxford University, UK) which included talks by Catuscia Palamidessi (Ecole Polytechnique, France), Marco Gaboardi (University of Buffalo, USA), and Vincent Danos (CNRS, France).

MFPS gratefully acknowledges the financial support of the U.S. Office of Naval Research, USA. I should also like to thank the local organizers, Andrej Bauer and Matija Pretnar, for organizing the conference. Last, but not least, thanks to Mike Mislove for all the support and for making MFPS a successful conference during the last 33 years!

Alexandra Silva