Preface

This volume contains the papers presented at the 11th International Workshop on Reachability Problems (RP), held on September 7–9, 2017, at Royal Holloway, University of London, UK. Previous workshops in the series were located at: Aalborg University (2016), the University of Warsaw (2015), the University of Oxford (2014), Uppsala University (2013), the University of Bordeaux (2012), the University of Genoa (2011), Masaryk University Brno (2010), École Polytechnique (2009), the University of Liverpool (2008), and Turku University (2007).

The aim of the conference is to bring together scholars from diverse fields with a shared interest in reachability problems, and to promote the exploration of new approaches for the modelling and analysis of computational processes by combining mathematical, algorithmic, and computational techniques. Topics of interest include (but are not limited to): reachability for infinite state systems; rewriting systems; reachability analysis in counter/timed/cellular/communicating automata; Petri nets; computational aspects of semigroups, groups, and rings; reachability in dynamical and hybrid systems; frontiers between decidable and undecidable reachability problems; complexity and decidability aspects; predictability in iterative maps, and new computational paradigms.

The invited speakers at the 2017 workshop were:

– Hana Chockler, King's College London
– Laurent Doyen, LSV-ENS Cachan
– Raphaël Jungers, Université catholique de Louvain
– Andreas Podelski, University of Freiburg

The workshop received 17 submissions. Each submission was reviewed by three Program Committee (PC) members. The members of the PC and the list of external reviewers can be found on the next two pages. The PC is grateful for the high quality work produced by these external reviewers. Based on these reviews, the PC decided to accept 12 papers, in addition to the four invited talks. Overall this volume contains 12 contributed papers and one paper by an invited speaker. The workshop also provided the opportunity to researchers to give informal presentations, prepared shortly before the event, informing the participants about current research and work in progress.

It is a pleasure to thank the team behind the EasyChair system and the Lecture Notes in Computer Science team at Springer, who together made the production of this volume possible in time for the workshop. Finally, we thank all the authors for their high-quality contributions, and the participants for making RP 2017 a success.

September 2017

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Reachability Problems
11th International Workshop, RP 2017, London, UK,
September 7-9, 2017, Proceedings
Hague, M.; Potapov, I. (Eds.)
2017, XV, 193 p. 34 illus., Softcover