## **Table of Contents**

Graph Games with Reachability Objectives (Invited Talk) Krishnendu Chatterjee	1
Observing Continuous-Time MDPs by 1-Clock Timed Automata (Invited Talk) Taolue Chen, Tingting Han, Joost-Pieter Katoen, and Alexandru Mereacre	2
Automata for Monadic Second-Order Model-Checking (Invited Talk) Bruno Courcelle	26
Reachability Problems for Hybrid Automata (Invited Talk) Jean-François Raskin	28
Synthesis of Timing Parameters Satisfying Safety Properties Étienne André and Romain Soulat	31
Formal Language Constrained Reachability and Model Checking Propositional Dynamic Logics Roland Axelsson and Martin Lange	45
Completeness of the Bounded Satisfiability Problem for Constraint LTL Marcello M. Bersani, Achille Frigeri, Matteo Rossi, and Pierluigi San Pietro	58
Characterizing Conclusive Approximations by Logical Formulae Yohan Boichut, Thi-Bich-Hanh Dao, and Valérie Murat	72
Decidability of LTL for Vector Addition Systems with One Zero-Test Rémi Bonnet	85
Complexity Analysis of the Backward Coverability Algorithm for VASS Laura Bozzelli and Pierre Ganty	96
Automated Termination in Model Checking Modulo Theories Alessandro Carioni, Silvio Ghilardi, and Silvio Ranise	110
Monotonic Abstraction for Programs with Multiply-Linked Structures Parosh Aziz Abdulla, Jonathan Cederberg, and Tomáš Vojnar	125



Efficient Bounded Reachability Computation for Rectangular Automata	139
Xin Chen, Erika Ábrahám, and Goran Frehse	109
Reachability and Deadlocking Problems in Multi-stage Scheduling Christian E.J. Eggermont and Gerhard J. Woeginger	153
Improving Reachability Analysis of Infinite State Systems by Specialization	165
Fabio Fioravanti, Alberto Pettorossi, Maurizio Proietti, and Valerio Senni	100
Lower Bounds for the Length of Reset Words in Eulerian Automata Vladimir V. Gusev	180
Parametric Verification and Test Coverage for Hybrid Automata Using the Inverse Method	191
A New Weakly Universal Cellular Automaton in the 3D Hyperbolic Space with Two States	205
A Fully Symbolic Bisimulation Algorithm Malcolm Mumme and Gianfranco Ciardo	218
Reachability for Finite-State Process Algebras Using Static Analysis Nataliya Skrypnyuk and Flemming Nielson	231
Author Index	245