Non-Classical Models of Automata and Applications VI

Preface

Many non-classical models of automata are natural objects of theoretical computer science. They are studied from different points of view in various areas, both as theoretical concepts and as formal models for applications. The Sixth Workshop on Non-Classical Models of Automata and Applications (NCMA 2014) was organized in order to provide an opportunity for researchers who work on different aspects of non-classical models of automata and related subjects to exchange and discuss new ideas and recent developments.

The first workshop on Non-Classical Models of Automata and Applications, NCMA 2009, was held in Wrocław, Poland, in 2009 as a satellite event of the International Symposium on Fundamentals of Computation Theory (FCT 2009). It was sponsored by the AutoMathA project of the European Science Foundation (ESF). The second workshop, NCMA 2010, was held in Jena, Germany, as an associated workshop of the Conference on Membrane Computing (CMC 2010), and the third workshop, NCMA 2011, was organized at the Università degli Studi di Milano, Milan, Italy, in close proximity to the 15th Conference on Developments in Language Theory (DLT 2011). The fourth workshop, NCMA 2012, was held in Fribourg, Switzerland, and the fifth workshop, NCMA 2013, took place in Umeå, Sweden. Finally, the sixth workshop, NCMA 2014, was organized at the University of Kassel, Germany, from July 28 to 29, 2014. It was again a scientifically valuable event with very interesting presentations and stimulating discussions, leading to new investigations and scientific cooperations in the area of (non-classical) models of automata and applications.

NCMA 2014 was sponsored by the Deutsche Forschungsgemeinschaft (DFG) and the Department of Electrical Engineering and Computer Science of the University of Kassel. Special thanks go to the invited speakers Peter Leupold (University of Leipzig, Germany) and František Mráz (Charles University in Prague, Czech Republic) for accepting our invitation and presenting their recent results at NCMA 2014.

In addition to the invited contributions, 23 full papers and 6 short papers were submitted by a total of 42 authors from 16 different countries. Based on three referee reports each, the program committee selected 14 full papers that were presented at the workshop. Also 6 short contributions were presented at the workshop. We thank the members of the Program Committee for their excellent work in making this selection:

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