

Preface

This volume contains the proceedings of ICGT 2017, the 10th International Conference on Graph Transformation. The conference was held in Marburg, Germany, during July 18–19, 2017. ICGT 2017 was affiliated with STAF (Software Technologies: Applications and Foundations), a federation of leading conferences on software technologies. ICGT 2017 took place under the auspices of the European Association of Theoretical Computer Science (EATCS), the European Association of Software Science and Technology (EASST), and the IFIP Working Group 1.3, Foundations of Systems Specification.

The aim of the ICGT series is to bring together researchers from different areas interested in all aspects of graph transformation. Graph structures are used almost everywhere when representing or modelling data and systems, not only in computer science, but also in the natural sciences and in engineering. Graph transformation and graph grammars are the fundamental modelling paradigms for describing, formalizing, and analyzing graphs that change over time when modelling, e.g., dynamic data structures, systems, or models. The conference series promotes the cross-fertilizing exchange of novel ideas, new results, and experiences in this context among researchers and students from different communities.

ICGT 2017 continued the series of conferences previously held in Barcelona (Spain) in 2002, Rome (Italy) in 2004, Natal (Brazil) in 2006, Leicester (UK) in 2008, Enschede (The Netherlands) in 2010, Bremen (Germany) in 2012, York (UK) in 2014, L'Aquila (Italy) in 2015, and Vienna (Austria) in 2016 following a series of six International Workshops on Graph Grammars and Their Application to Computer Science from 1978 to 1998 in Europe and in the USA.

This year, the conference solicited research papers describing new unpublished contributions in the theory and applications of graph transformation, innovative case studies describing the use of graph transformation techniques in any application domain, and tool presentation papers that demonstrate the main features and functionalities of graph-based tools. All papers were reviewed thoroughly by at least three Program Committee members and additional reviewers. We received 23 submissions, and the Program Committee selected 14 papers for publication in these proceedings, after careful reviewing and extensive discussions. The topics of the accepted papers range over a wide spectrum, including theoretical approaches to graph transformation and their verification, model-driven engineering, chemical reactions, as well as various applications. In addition to these paper presentations, the conference program included an invited talk, given by Georg Gottlob (University of Oxford, UK).

We would like to thank all who contributed to the success of ICGT 2017, the invited speaker, Georg Gottlob, the authors of all submitted papers, as well as the members of the Program Committee and the additional reviewers for their valuable contributions to the selection process. We are grateful to Reiko Heckel, the chair of the Steering Committee of ICGT for his valuable suggestions; to Javier Troya and Leen Lambers for

their help in preparing the proceedings; to Gabriele Taentzer, the general chair of STAF; and to the STAF federation of conferences for hosting ICGT 2017. We would also like to thank EasyChair for providing support for the review process.

July 2017

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Graph Transformation

10th International Conference, ICGT 2017, Held as Part
of STAF 2017, Marburg, Germany, July 18-19, 2017,
Proceedings

de Lara, J.; Plump, D. (Eds.)

2017, XIV, 231 p. 76 illus., Softcover

ISBN: 978-3-319-61469-4