Preface

This volume is the proceedings of the 6th International Workshop on Bidirectional Transformations (BX 2017). Bidirectional transformations (BX) are a mechanism for maintaining the consistency of at least two related sources of information. Such sources can be relational databases, software models and code, or any other document following standard or ad-hoc formats. BX are an emerging topic in a wide range of research areas, with prominent presence at top conferences in several different fields (namely databases, programming languages, software engineering, and graph transformation), but with results in one field often getting limited exposure in the others. BX 2017 was organized as a dedicated venue for BX in all relevant fields, as part of a workshop series that was created in order to promote cross-disciplinary research and awareness in the area. As such, since its beginning in 2012, the workshop has rotated between venues in different fields. In 2017, BX will be co-located with ETAPS in Uppsala, Sweden; it was previously held at the following locations:

1. BX 2012: Tallinn, Estonia, co-located with ETAPS
2. BX 2013: Rome, Italy, co-located with ETAPS
3. BX 2014: Athens, Greece, co-located with EDBT/ICDT
4. BX 2015: L’Aquila, Italy, co-located with STAF
5. BX 2016: Eindhoven, The Netherlands, co-located with ETAPS

The call for papers attracted 10 complete submissions plus 2 talk proposals, from which the programme committee, after a careful reviewing and discussion process, selected for presentation at the workshop 9 papers (5 regular, 1 tool and 2 short) and 2 talk proposals:

- Milica Stojkovic, Sven Laux and Anthony Anjorin. Existing and New Ideas on Least Change Triple Graph Grammars
- Stephan Seifermann and Jörg Henß. Comparison of QVT-O and Henshin-TGG for Synchronization of Concrete Syntax Models
- Anthony Anjorin, Zinovy Diskin, Frédéric Jouault, Hsiang-Shang Ko, Erhan Leblebici and Bernhard Westfechtel. BenchmarX Reloaded: A Practical Benchmark Framework for Bidirectional Transformations
- Daisuke Kinoshita and Keisuke Nakano. Bidirectional Certified Programming
- Michael Johnson and Robert Rosebrugh. Universal Updates for Symmetric Lenses
- Perdita Stevens and Jeremy Gibbons. On Ontologology
- Danel Ahman and Tarmo Uustalu. Taking Updates Seriously
- Zinovy Diskin. Compositionality of Update Propagation: Lax PutPut
- Jeremy Gibbons. Profunctor Optics: Modular Data Accessors (Talk Proposal)
- Perdita Stevens. Bx in the Large (Talk Proposal)

In addition to these presentations, the programme of BX 2017 will include a panel for discussion. We hope that this discussion will lead to interesting submissions to next year’s BX workshop, which will take place at a venue yet to be arranged.

We would like to thank the Programme Committee and the external reviewers for their detailed reviews and careful consideration, and for the overall efficiency that enabled the tight schedule for reviewing. We would also like to thank all the authors and participants for helping us make BX 2017 a success.

April 2017

Romina Eramo and Michael Johnson
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