

Preface

The Third International Workshop on Foundational and Practical Aspects of Resource Analysis (FOPARA 2013) was held in Bertinoro, Italy, during August 29–31, 2013. It was hosted by the Bertinoro International Conference Center. In this edition, FOPARA was co-located with the 13th International Workshop on Termination (WST 2013). Given the thematic proximity of the events, the Program Chairs decided to have not only a co-location, but also interleaved sessions, so as to stimulate exchange of ideas between the two communities.

The FOPARA workshop serves as a forum for presenting original research results that are relevant to the analysis of resource consumption by computer programs. The workshop aims at bringing together researchers who work on foundational issues with researchers who focus more on practical results. Therefore, both theoretical and practical contributions were encouraged. Papers that combined theory and practice were also welcome. The scientific program of this edition included three invited talks, all of them joint with WST 2013:

- Gilles Barthe, from IMDEA Software, on “Computer-Aided Cryptographic Proofs”;
- Amir Ben-Amram, from The Academic College of Tel-Aviv Yaffo, on “Ranking Functions for Linear-Constraint Loops”;
- Byron Cook, from Microsoft Research, who gave a talk entitled “Beyond Termination.”

Of the 10 contributed talks, seven were on traditional approaches to complexity analysis, while three were on topics that were hardly treated in previous editions of the workshop, including differential privacy and probabilistic analysis of programs. During the workshop lively, inspiring discussions emerged between the more practical and the more theoretical researchers. The interaction with researchers attending WST 2013 was strong.

The FOPARA workshop is held every two years. The first two workshops of this series were organized by the Radboud University Nijmegen at Eindhoven (The Netherlands) in November 2009 and by the Universidad Complutense de Madrid at Madrid (Spain) in May 2011. After the workshop, nine of the presented works were submitted for formal publication. Also, an open call for more contributions was issued and three more works were included in the formal peer-reviewing process. The Program Committee then selected nine papers for publication which are the ones included in this volume. Each submission was reviewed by at least three Program Committee members.

We thank all the speakers, the authors, the Program Committee, and the rest of the participants for contributing to the success of FOPARA 2013. We also acknowledge the generous funding and support of the Department of Computer Science and Engineering of the University of Bologna.

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Dal Lago, U.; Peña, R. (Eds.)

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