37th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science

FSTTCS 2017, December 12–14, 2017, IIT Kanpur, India

Edited by

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Contents

37th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2017).
Editors: Satya Lokam and R. Ramanujam
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Preface

This volume constitutes the proceedings of the 37th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2017), held at the Indian Institute of Technology, Kanpur, from December 12 to December 14, 2017. The FSTTCS conferences are organized annually by the Indian Association for Research in Computing Science (IARCS). The proceedings of FSTTCS 2017 is published as a volume in the LIPIcs series under a Creative Commons license, with free online access to all, and with authors retaining rights over their contributions.

The programme of the conference consisted of 6 invited talks and 41 contributed papers. This volume contains the contributed papers and extended abstracts of invited talks presented at the conference. The 41 contributed papers were selected from a total of 143 submissions. We thank the programme committee for its efforts in carefully evaluating the submissions and selecting these papers to put together a good programme. We also thank the external reviewers for sending their informative and timely reviews. Further, we thank all those who submitted their papers to FSTTCS 2017.

We are especially thankful to the invited speakers: Edith Elkind (University of Oxford, UK), Sham Kakade (University of Washington, USA), Anca Muscholl (LaBRI & Université Bordeaux, France), Devavrat Shah (MIT, USA), Vinod Vaikuntanathan (MIT CSAIL, USA) and Thomas Wilke (Christian-Albrechts-Universität zu Kiel, Germany), for accepting our invitations and inspire the FSTTCS community.

The conference was greatly enriched by three satellite events: a pre-conference workshop on *Probabilistic reasoning and Formal Methods* organized by S. Akshay (IIT Bombay) and Kuldip S. Meel (National University of Singapore); a post-conference workshop on *Computational Social Choice Theory* organized by Swaprava Nath (IIT Kanpur) and Sunil Simon (IIT Kanpur); and another post-conference workshop on *Lattice Algorithms and Cryptography* organized by Shweta Agrawal (IIT Madras) and Vinod Vaikuntanathan (MIT, USA). We thank the organizers of these workshops and all the speakers in them.

The organizing committee of the conference from the Department of Computer Science and Engineering, IIT Kanpur, made extensive arrangements for the smooth running of the conference and workshops. We are indebted to them for their invaluable efforts. We thank S.P. Suresh of Chennai Mathematical Institute for work on the conference web page.

We thank Easychair which has become indispensable to our professional lives. Finally, we thank the Dagstuhl LIPIcs staff for their coordination in the production of these proceedings, particularly Marc Herbstritt and Michael Wagner who have been very prompt and helpful in answering our questions.

Satya Lokam and R. Ramanujam
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