

32nd Computational Complexity Conference

CCC 2017, July 6–9, 2017, Riga, Latvia

Edited by

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■ Preface

The papers in this volume were accepted for presentation at the 32nd Computational Complexity Conference (CCC 2017), held July 6 to July 9 in Riga, Latvia. The conference is organized by the Computational Complexity Foundation (CCF) in cooperation with the European Association for Theoretical Computer Science (EATCS) and the ACM Special Interest Group on Algorithms and Computation Theory (SIGACT). CCC 2017 is sponsored by Microsoft Research and the University of Latvia.

The call for papers sought original research papers in all areas of computational complexity theory. Of the 98 submissions, the program committee selected 33 for presentation at the conference.

The program committee would like to thank everyone involved in the conference, including: all those who submitted papers for consideration, as well as the reviewers for their scientific contributions; the board of trustees of the Computational Complexity Foundation, most especially its president Dieter van Melkebeek for extensive advice and assistance; the Local Arrangements Committee chair Andris Ambainis for help with scheduling; Avi Wigderson for contributing three two-hour tutorials on the topic of “Operator Scaling: theory, applications and connections”; and, Marc Herbstritt for coordinating the production of these proceedings.

Ryan O’Donnell

Program Committee Chair, on behalf of the Program Committee



■ Awards

The program committee of the 32nd Computational Complexity Conference is very pleased to present the **Best Paper Award** to Xi Chen, Rocco A. Servedio, Li-Yang Tan, Erik Waingarten, and Jinyu Xie for their paper

Settling the query complexity of non-adaptive junta testing;

and, the **Best Student Paper Award** to Mrinal Kumar for his paper

A quadratic lower bound for homogeneous algebraic branching programs.



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