

# 37th Computational Complexity Conference

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Edited by

Shachar Lovett



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## ■ Preface

The papers in this volume were accepted for presentation at the 37th Computational Complexity Conference (CCC 2022), held between July 20–23, 2021, in Philadelphia, USA. The conference is organized by the Computational Complexity Foundation (CCF) in cooperation with the ACM Special Interest Group on Algorithms and Computation Theory (SIGACT) and the European Association for Theoretical Computer Science (EATCS).

The call for papers sought original research papers in all areas of computational complexity theory. Of the 89 submissions, the program committee selected 38 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 (listed separately) for their scientific contributions; the board of trustees of the Computational Complexity Foundation for their advice and assistance; the Local Arrangements Committee chair Anindya De; Dean Doron, Rahul Santhanam, and Gilles Zemor for their invited talks; and Michael Wagner for coordinating the production of these proceedings.

Shachar Lovett

Program Committee Chair, on behalf of the Program Committee





## ■ Awards

The program committee of the 37th Computational Complexity Conference is very pleased to present the **Best Paper Award** to Scott Aaronson, Devon Ingram and William Kretschmer for their paper

**The Acrobatics of BQP.**

The **Best Student Paper Award** is shared between Xin Lyu for his paper

**Improved Pseudorandom Generators for  $AC^0$  Circuits**

and Oliver Korten for his paper

**Derandomization from Time-Space Tradeoffs.**





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