

4th Symposium on Foundations of Responsible Computing

FORC 2023, June 7–9, 2023, Stanford University, California, USA

Edited by

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■ Preface

The Symposium on Foundations of Responsible Computing (FORC), now in its fourth year, is a forum for mathematically rigorous research in computation and society writ large. The Symposium aims to catalyze the formation of a community supportive of the application of theoretical computer science, statistics, economics, and other relevant analytical fields to problems of pressing and anticipated societal concern.

Twenty-seven papers were selected to appear at FORC 2023, held in Stanford, CA on June 7–9, 2023. These papers were selected by the program committee, with the help of additional expert reviewers, out of forty-nine submissions. FORC 2023 offered two submission tracks: archival-option (giving authors of selected papers the option to appear in this proceedings volume) and non-archival (in order to accommodate a variety of publication cultures, and to offer a venue to showcase FORC-relevant work that will appear or has recently appeared in another venue). Eleven archival-option and sixteen non-archival submissions were selected for the program.

A smaller sub-committee was formed to choose best paper awards. The paper *From the Real Towards the Ideal: Risk Prediction in a Better World* by Cynthia Dwork and Guy Rothblum was selected for the best paper award. Three papers were selected for the best student paper award: *New Algorithms and Applications for Risk-Limiting Audits* by Bar Karov and Moni Naor; *Fair Grading Algorithms for Randomized Exams* by Jiale Chen, Jason Hartline, and Onno Zoeter; and *Resistance to Timing Attacks for Sampling and Privacy Preserving Schemes* by Yoav Ben Dov, Liron David, Moni Naor, and Elad Tzalik.

Thank you to the entire program committee and to the external reviewers for their hard work during the review process. It has been an honor and a pleasure to work together with you to shape the program of this young conference. Finally, I would like to thank our generous sponsors: the Simons Collaboration on the Theory of Algorithmic Fairness for their conference support.

Kunal Talwar
Cupertino, CA
April 26, 2023



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