

## FOCS 2019 Preface

The papers in these proceedings were presented at the 60th Annual IEEE Symposium on Foundations of Computer Science, which was held on November 10-12, 2019, in Baltimore, Maryland. The conference is sponsored by the IEEE Computer Society Technical Committee on Mathematical Foundations of Computing, in cooperation with the ACM Special Interest Group on Algorithms and Computation Theory (SIGACT).

The call for papers sought original research papers in all areas of the theory of computation. The program committee met at Arizona State University in Tempe, graciously hosted by Andrea Richa, on June 22-23, 2019 following an intensive period of electronic discussion. Of the 318 submissions, the committee selected 92 for presentation at the conference. Following long-standing tradition, the papers at the conference have not been formally refereed, and it is expected that extended versions of most of these papers will be published in peer-reviewed journals.

I would like to thank all authors who submitted papers. I'm grateful to the program committee members, listed on a separate page, for the major effort they put into evaluating many submissions within a relatively short period. Thanks also to the over 400 external reviewers, listed on a separate page, for their expert opinions. I'm also grateful to the other organizers of the conference: the general chair, Yuval Rabani, who also gave me much advice, and the local arrangements chair, Mike Dinitz, who also assisted with other tasks. I thank the STOC 2019 PC chair Edith Cohen, who gave me much advice and help, and other previous FOCS/STOC chairs for their advice, including Toni Pitassi, Ronitt Rubinfeld, Chris Umans, Valerie King, Mikkel Thorup, Leonard Schulman, and Yishay Mansour. I would also like to thank Dean Doron for installing the HotCRP server. Finally, thanks to Lisa O'Conner and Patrick Kellenberger of the IEEE Computer Society for helping in the production of this volume.

David Zuckerman,  
**FOCS 2019 Program Committee Chair**