

35th International Symposium on Computational Geometry

SoCG 2019, June 18–21, 2019, Portland, Oregon, USA

Edited by

Gill Barequet

Yusu Wang



Editors

Gill Barequet

Technion – Israel Inst. of Technology, Haifa, Israel
barequet@cs.technion.ac.il

Yusu Wang

The Ohio State University, Ohio, USA
yusu@cse.ohio-state.edu

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■ Foreword

The 35th International Symposium on Computational Geometry (SoCG) was held in Portland, Oregon, United States, June 18-21, 2019, as part of the Computational Geometry Week. Altogether, 166 papers have been submitted to SoCG 2019. After a thorough review process, in which each paper has been evaluated by three or more independent reviewers, the Program Committee accepted 60 papers for presentation at SoCG. These proceedings contain extended abstracts of the accepted papers, limited to 500 lines plus references. If any supporting material (e.g., proofs or experimental details) does not fit in the line limit, the full paper is available at a public repository, which is referenced in the extended abstract.

The Best Paper Award goes to the paper “*Almost tight lower bounds for hard cutting problems in embedded graphs*” by Vincent Cohen-Addad, Éric Colin de Verdière, Dániel Marx, and Arnaud de Mesmay. The Best Student Presentation Award will be determined and announced at the symposium, based on ballots cast by the attendees.

A selection of papers, recommended by the Program Committee, have been invited to forthcoming special issues of *Discrete & Computational Geometry* and the *Journal of Computational Geometry*, dedicated to the best papers of the symposium.

In addition to the technical papers, there were four submissions to the multimedia exposition. All submissions were reviewed, and all four were accepted for presentation. One submission was split into two parts, hence, five multimedia segments were eventually accepted. The extended abstracts that describe these submissions are included in this proceedings volume. The multimedia content can be found at <http://www.computational-geometry.org>.

We thank the authors of all submitted papers and multimedia presentations. We are most grateful to the members of the SoCG Program Committee, the Multimedia Committee, and 275 additional reviewers for their dedication and expertise that ensured the high quality of the papers in these proceedings. We would also like to thank the Proceedings Chair, Matias Korman, for his meticulous work preparing the final proceedings. Many other people contributed to the success of SoCG 2019 and the entire CG Week. We especially thank the local organizers, all members of the Workshop and YRF Committees, and the Computational Geometry Steering Committee.

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