

35th International Symposium on Algorithms and Computation

ISAAC 2024, December 8–11, 2024, Sydney, Australia

Edited by

Julián Mestre
Anthony Wirth



Editors

Julián Mestre 

School of Computer Science, The University of Sydney, Australia
julian.mestre@sydney.edu.au

Anthony Wirth 

School of Computer Science, The University of Sydney, Australia
anthony.wirth@sydney.edu.au

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■ Preface

This volume comprises the papers presented at the 35th International Symposium on Algorithms and Computation (ISAAC 2024), which was held in Sydney, Australia on 8–11 December 2024, organized by The University of Sydney. ISAAC 2024 provided a forum for researchers working in the areas of algorithms, theory of computation, and computational complexity.

Of the 193 submissions to ISAAC 2024, the 44 members of the program committee (PC), listed below, curated a program of 56 technical papers. Each submission received at least three reviews, with several written by external reviewers invited by the program committee, also listed below. We are most grateful for the careful and considered reviews of the PC members and external reviewers, as well as the attentive discussion and decisions of the PC. We are delighted to present the technical program to you on their behalf.

The program committee selected the following papers as the recipients of the ISAAC 2024 Best Paper and Best Student Paper Awards.

Best Paper Vadim Lozin, Barnaby Martin, Sukanya Pandey, Daniel Paulusma, Mark Siggers, Siani Smith and Erik Jan van Leeuwen. *Complexity Framework for Forbidden Subgraphs II: Edge Subdivision and the “H”-graphs.*

Best Student Paper Koustav Bhanja. *Optimal Sensitivity Oracle for Steiner Mincut.*

The Symposium welcomed three invited presentations, by Ravi Kumar (Google), Olga Ohrimenko (U. Melbourne), and Barna Saha (UCSD). We are very grateful to have such quality presenters, and are pleased to include their abstracts below. The week prior to the Symposium, The University of Sydney hosted the four-day summer school on “Recent Trends in Algorithms” for students. We thank The University of Sydney and Google for their support of ISAAC 2024.

December 2024

Julián Mestre and Anthony Wirth



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