

# Preface

The 42nd International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2016) took place in Istanbul, Turkey, on the south campus of Boğaziçi University during June 22–24, 2016. This volume contains the papers presented at the conference.

The WG conference series has a long tradition. Since 1975, it has taken place 23 times in Germany, four times in The Netherlands, three times in France, twice in Austria and the Czech Republic, as well as once in Greece, Israel, Italy, Norway, Slovakia, Switzerland, Turkey, and the UK. The WG conferences aim to connect theory and practice by demonstrating how graph-theoretic concepts can be applied to various areas of computer science and by extracting new graph problems from applications. Their goal is to present new research results and to identify and explore directions of future research.

WG 2016 received 74 submissions. Each submission was carefully reviewed by at least three members of the Program Committee. The Program Committee accepted 25 papers for presentation at WG 2016. The WG 2016 Best Paper Award was given to Emile Ziedan, Deepak Rajendraprasad, Rogers Mathew, Martin Charles Golumbic, and Jeremie Dusart for their paper on “Induced Separation Dimension”. The WG 2016 Best Student Paper Award was given to Linda Kleist for her paper on “Drawing Planar Graphs with Prescribed Face Areas”. The program included three inspiring invited talks: Saket Saurabh gave a talk on “Lossy Kernelization”, Kavitha Telikepalli on “Popular Matchings”, and Dominique de Werra on “Minimal Reinforcement of Edges: A Problem of Reliability in Graphs”.

I would like to thank the authors of all the papers submitted for possible presentation at WG 2016, the speakers of the 25 talks presenting the accepted papers, the three invited speakers, the members of the Program Committee, and the external reviewers. Special thanks to the local Organizing Committee at Boğaziçi University; their outstanding performance made WG 2016 a great success.

WG 2016 is grateful to the Research Council of Norway for financial support; the University of Bergen, Norway, for financial and administrative support; Boğaziçi University, Turkey, for administrative and practical support; and Springer, Germany, for funding the Best Paper Award. The work of the Program Committee was conducted and the proceedings were prepared using the EasyChair conference management system, which provided an excellent working environment.

August 2016

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Graph-Theoretic Concepts in Computer Science  
42nd International Workshop, WG 2016, Istanbul,  
Turkey, June 22-24, 2016, Revised Selected Papers  
Heggernes, P. (Ed.)  
2016, X, 307 p. 51 illus., Softcover  
ISBN: 978-3-662-53535-6