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Mohit Singh · David P. Williamson (Eds.)

# Integer Programming and Combinatorial Optimization

22nd International Conference, IPCO 2021  
Atlanta, GA, USA, May 19–21, 2021  
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# Preface

This volume collects the 33 extended abstracts presented at IPCO 2021, the 22nd Conference on Integer Programming and Combinatorial Optimization, held May 19–21, 2021, in an online format. IPCO is under the auspices of the Mathematical Optimization Society, and it is an important forum for presenting the latest results on the theory and practice of the various aspects of discrete optimization. The first IPCO conference took place at the University of Waterloo in May 1990, and the Georgia Institute of Technology organized the 22nd such event.

The conference had a Program Committee consisting of 17 members. In response to the Call for Papers, we received more than 90 submissions. Each submission was reviewed by at least three Program Committee members. Because of the limited number of time slots for presentations, many excellent submissions could not be accepted. The page limit for contributions to this proceedings was set to 15. We expect the full versions of the extended abstracts appearing in this *Lecture Notes in Computer Science* volume to be submitted for publication in refereed journals, and a special issue of *Mathematical Programming Series B* containing such versions is in process.

For the second time, IPCO had a Best Paper Award. The IPCO 2021 Best Paper Award was given to Jannis Blauth, Vera Traub, and Jens Vygen for their paper *Improving the Approximation Ratio for Capacitated Vehicle Routing*.

This year, IPCO was preceded by a Summer School held May 17–18, 2021, with lectures by Moon Duchin (Tufts), Simge Küçükyavuz (Northwestern), and László Végh (LSE). We thank them warmly for their contributions. We would also like to thank

- The authors who submitted their research to IPCO;
- The members of the Program Committee, who spent much time and energy reviewing the submissions;
- The expert additional reviewers whose opinions were crucial in the paper selection;
- The members of the Local Organizing Committee, who made this conference possible;
- The Mathematical Optimization Society and in particular the members of its IPCO Steering Committee, Oktay Günlük, Jochen Könnemann, and Giacomo Zambelli, for their help and advice;
- EasyChair for making paper management simple and effective; and
- Springer for their efficient cooperation in producing this volume, and for financial support for the Best Paper Award.

We would further like to thank the following sponsors for their financial support: Gurobi, FICO, MOSEK, SAS, and the Georgia Institute of Technology.

March 2021

Mohit Singh  
David P. Williamson

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