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Károly Bezdek • Antoine Deza • Yinyu Ye
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Discrete Geometry and Optimization



The Fields Institute for Research
in the Mathematical Sciences



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Preface

Optimization has long been a source of both inspiration and applications for geometers, and conversely, discrete and convex geometry have provided the foundations for many optimization techniques, leading to a rich interplay between these subjects. The purpose of the Workshop on Discrete Geometry, the Conference on Discrete Geometry and Optimization, and the Workshop on Optimization, held in September 2011 at the Fields Institute, Toronto, was to further stimulate the interaction between geometers and optimizers. This volume reflects the fruitful interplay between these areas.

We would like to thank the contributors for their high-quality papers, as well as the referees for their thorough reviews. We are grateful to the Fields Institute and the National Science Foundation for the generous funding provided for the Thematic Program on Discrete Geometry and Applications. We wish to thank Jesús De Loera and Joseph Mitchell for co-organizing the events related to discrete geometry and optimization. It is a pleasure to acknowledge the excellent support provided by the Fields Institute; in particular, we would like to offer special thanks to Edward Bierstone, Alison Conway, Claire Dunlop, Matheus Grasselli, Debbie Iscoe, Matthias Neufang, and Carl Riehm.

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