

# 12th International Symposium on Parameterized and Exact Computation

IPEC 2017, September 6–8, 2017, Vienna, Austria

Edited by

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## ■ Preface

This volume contains the papers presented at IPEC 2017: the 12th International Symposium on Parameterized and Exact Computation held during September 6–8, 2017, in Vienna, Austria. IPEC was held together with five other algorithms conferences and a summer school as part of the annual ALGO congress.

The International Symposium on Parameterized and Exact Computation (IPEC, formerly IWPEC) is a series of international symposia covering research in all aspects of parameterized and exact algorithms and complexity. Started in 2004 as a biennial workshop, it became an annual event in 2009.

In response to the call for papers, 68 papers were submitted. Each submission was reviewed by at least 3 reviewers. The reviews came from the 14 members of the program committee, and from 100 external reviewers contributing 132 external reviews. The program committee held electronic meetings through the EasyChair.

The program committee felt that the median submission quality was very high, and in the end selected 29 of the submissions for presentation at the symposium and for inclusion in this proceedings volume. The Best Paper Award was presented to Radu Curticapean, Holger Dell, Fedor Fomin, Leslie Ann Goldberg and John Lapinskas for the paper *A Fixed-Parameter Perspective on #BIS* and the Excellent Student Paper Award was presented to Bart M. P. Jansen and Astrid Pieterse for the paper *Optimal Data Reduction for Graph Coloring Using Low-Degree Polynomials*.

IPEC invited one plenary speaker to the ALGO meeting, Fabrizio Grandoni, as part of the award ceremony for the 2017 EATCS-IPEC Nerode Prize for outstanding papers in the area of multivariate algorithmics. The award was given by a committee consisting of David Eppstein, Daniel Marx, and Jianer Chen to Fedor V. Fomin, Fabrizio Grandoni, and Dieter Kratsch for their paper *A Measure & Conquer Approach for the Analysis of Exact Algorithms* [Journal of the ACM 65 (5): Article 25, 2009]. We thank Fabrizio for accepting our invitation and for contributing an excellent talk to IPEC 2017.

IPEC also invited Mikołaj Bojańczyk to present a tutorial “On Courcelle’s conjecture about recognisable graph classes.”

We would like to thank the program committee, together with the external reviewers, for their commitment in the difficult paper selection process. We also thank all the authors who submitted their work for consideration. Finally, we are grateful to the local organizers of ALGO, chaired by Stefan Szeider, for their efforts, which made chairing IPEC an enjoyable experience.

Daniel Lokshtanov and Naomi Nishimura  
Bergen and Waterloo, October 2017

### Previous IPECs

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2008	Victoria, Canada
2009	Copenhagen, Denmark
2010	Chennai, India
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