

17th International Symposium on Parameterized and Exact Computation

IPEC 2022, September 7–9, 2022, Potsdam, Germany

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■ Preface

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. Previous iterations of the symposium were:

- 2004 Bergen, Norway
- 2006 Zürich, Switzerland
- 2008 Victoria, Canada
- 2009 Copenhagen, Denmark
- 2010 Chennai, India
- 2011 Saarbrücken, Germany
- 2012 Ljubljana, Slovenia
- 2013 Sophia Antipolis, France
- 2014 Wrocław, Poland
- 2015 Patras, Greece
- 2016 Aarhus, Denmark
- 2017 Vienna, Austria
- 2018 Helsinki, Finland
- 2019 Munich, Germany
- 2020 Hong Kong, China
- 2021 virtual / Lisbon, Portugal

This volume contains the papers presented at IPEC 2022: the 17th International Symposium on Parameterized and Exact Computation. IPEC 2022 was held on September 7–9. It was a part of the ALGO 2022 congress, and took place in Potsdam, Germany. In response to the call for papers, 47 extended abstracts were submitted and 25 of them were ultimately selected for presentation at the conference and inclusion in these proceedings. Each considered submission received at least 3 reviews. The reviews were performed in a double-blind fashion by the 16 regular members of the program committee and by 19 external reviewers, together contributing 141 full reviews.

The **Best Paper Award** was given to Hans L. Bodlaender (Utrecht University), Carla Groenland (Utrecht University), Hugo Jacob (ENS Paris-Saclay), Lars Jaffke (University of Bergen) and Paloma de Lima (IT University of Copenhagen) for their paper “*XNLP-completeness for Parameterized Problems on Graphs with a Linear Structure*”.

The **Best Student Paper Award** was given to Jelle Oostveen (Utrecht University) and Erik Jan van Leeuwen (Utrecht University) for their paper “*Parameterized Complexity of Streaming Diameter and Connectivity Problems*”.

The **EATCS-IPEC Nerode Prize** was given to Bruno Courcelle for his papers “*The Monadic Second-Order Logic of Graphs. I. Recognizable Sets of Finite Graphs*” and “*The Monadic Second-Order Logic of Graphs III: Tree-Decompositions, Minors and Complexity Issues*”. IPEC 2022 hosted an award ceremony with a plenary talk given by Bruno Courcelle. The Nerode Prize committee consisted of Anuj Dawar (University of Cambridge), Fedor Fomin (University of Bergen), and Thore Husfeldt (IT University of Copenhagen).

Eun Jung Kim (Université Paris-Dauphine, PSL Research University, CNRS) presented an **invited tutorial** on “*Directed Flow-augmentation*”. Finally, IPEC 2022 hosted the award ceremony of the seventh Parameterized Algorithms and Computational Experiments (PACE) challenge. These proceedings contain a report on the **PACE 2022** challenge and brief communications of the winners about their solvers.

We thank the program committee and the external reviewers for their commitment in the paper selection process. We also thank all the authors who submitted their work. We are grateful to the local organizers of ALGO 2022 for the local arrangements.

Holger Dell and Jesper Nederlof
Frankfurt and Utrecht, October 2022



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