

19th International Symposium on Parameterized and Exact Computation

IPEC 2024, September 4–6, 2024, Royal Holloway, University of
London, Egham, United Kingdom

Edited by

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ACM Classification 2012

Theory of computation → Parameterized complexity and exact algorithms; Theory of computation → Approximation algorithms analysis; Theory of computation → Graph algorithms analysis; Theory of computation → Algorithm design techniques; Theory of computation → Mathematical optimization

ISBN 978-3-95977-353-9

Published online and open access by

Schloss Dagstuhl – Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, Saarbrücken/Wadern, Germany. Online available at <https://www.dagstuhl.de/dagpub/978-3-95977-353-9>.

Publication date

December, 2024

Bibliographic information published by the Deutsche Nationalbibliothek

The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at <https://portal.dnb.de>.

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Digital Object Identifier: 10.4230/LIPIcs.IPEC.2024.0

ISBN 978-3-95977-353-9

ISSN 1868-8969

<https://www.dagstuhl.de/lipics>

LIPICs – Leibniz International Proceedings in Informatics

LIPICs is a series of high-quality conference proceedings across all fields in informatics. LIPICs volumes are published according to the principle of Open Access, i.e., they are available online and free of charge.

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■ Preface

The 19th International Symposium on Parameterized and Exact Computation (IPEC 2024) took place at Royal Holloway, University of London in Egham, United Kingdom, on 4-6 September, 2024. It was a part of ALGO 2024.

IPEC is an annual conference covering all aspects of parameterized and exact algorithms, and complexity. To emphasize the link between theory and practice, IPEC hosts, since 2016, the Parameterized Algorithms and Computational Experiments (PACE) Challenge. This year's problem was one-sided crossing minimization, and attracted a record number of participants and teams.

IPEC 2024 had two keynote talks. The first was an invited tutorial titled *Structurally tractable graph classes*, given by Szymon Toruńczyk. The second was by Daniel Lokshtanov, one of the 2024 EATCS-IPEC Nerode Prize winners. Indeed, the prize was awarded to Hans L. Bodlaender, Fedor V. Fomin, Daniel Lokshtanov, Eelko Penninkx, Saket Saurabh, and Dimitrios M. Thilikos for their paper *(Meta) Kernelization* [FOCS 2010, JACM 2016].

We received a total of 51 submissions, out of which the Program Committee accepted 25. The prize for the Best Paper was awarded to Katrin Casel, Tobias Friedrich, Aikaterini Niklanovits, Kirill Simonov, and Ziena Zeif for their paper *Combining Crown Structures for Vulnerability Measures*. The extended abstract of all accepted papers, as well as short descriptions of the best solutions to the PACE Challenge, are included in this volume.

Many individuals contributed to the success of IPEC 2024. In particular, we thank:

- All authors who submitted their results to IPEC,
- The members of the PC and subreviewers, who graciously gave their time and energy,
- The Steering Committee for their helpful guidance,
- The invited speakers and the 2024 EATCS-IPEC Nerode Prize Committee: Thore Husfeld, Sang-il Oum, and Russell Impagliazzo,
- ALGO 2024 organizing committee, chaired by Argyrios Deligkas and Eduard Eiben, and
- The session chairs and all other participants.

September 2024

Édouard Bonnet
Paweł Rzażewski



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■ The Tradition of I(W)PEC

2004	1st IWPEC,	Bergen, Norway	chairs: Rodney Downey, Michael Fellows, Frank Dehne
2006	2nd IWPEC,	Zürich, Switzerland	chairs: Hans L. Bodlaender, Michael A. Langston
2008	3rd IWPEC,	Victoria, Canada	chairs: Martin Grohe, Rolf Niedermeier
2009	4th IWPEC,	Copenhagen, Denmark	chairs: Jianer Chen, Fedor V. Fomin
2010	5th IPEC,	Chennai, India	chairs: Venkatesh Raman, Saket Saurabh
2011	6th IPEC,	Saarbrücken, Germany	chairs: Dániel Marx, Peter Rossmanith
2012	7th IPEC,	Ljubljana, Slovenia	chairs: Dimitrios Thilikos, Gerhard Woeginger
2013	8th IPEC,	Sophia Antipolis, France	chairs: Gregory Gutin, Stefan Szeider
2014	9th IPEC,	Wrocław, Poland	chairs: Marek Cygan, Pinar Heggernes
2015	10th IPEC,	Patras, Greece	chairs: Thore Husfeldt, Iyad Kanj
2016	11th IPEC,	Arrhus, Denmark	chairs: Jiong Guo, Danny Hermelin
2017	12th IPEC,	Vienna, Austria	chairs: Daniel Lokshtanov, Naomi Nishimura
2018	13th IPEC,	Helsinki, Finland	chairs: Christophe Paul, Michał Pilipczuk
2019	14th IPEC,	Munich, Germany	chairs: Bart Jansen, Jan Arne Telle
2020	15th IPEC,	Hong Kong virtual event	chairs: Yixin Cao, Marcin Pilipczuk
2021	16th IPEC,	Lisbon, Portugal virtual event	chairs: Petr Golovach, Meirav Zehavi
2022	17th IPEC,	Potsdam, Germany	chairs: Holger Dell, Jesper Nederlof
2023	18th IPEC,	Amsterdam, the Netherlands	chairs: Neeldhara Misra, Magnus Wahlström
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