

20th International Symposium on Parameterized and Exact Computation

IPEC 2025, September 17–19, 2025, Warsaw, Poland

Edited by

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■ Preface

The International Symposium on Parameterized and Exact Computation (IPEC) is an annual conference covering all aspects of parameterized and exact algorithms and complexity. It started in 2004 as a biennial workshop and has been an annual conference since 2009 (see the tradition of I(W)PEC on the next page). Its 20th edition took place at the University of Warsaw in Warsaw, Poland, on 17-19 September, 2025, as part of ALGO 2025.

This volume contains the papers presented at IPEC 2025. In all, 64 extended abstracts were registered for the conference, out of which 3 were withdrawn, and thus 61 full submissions were finally received. This represents an increase compared to 2024, when 51 full submissions were received. The program committee selected 30 out of the 61 submissions for presentation at the conference. These 30 papers are included in this volume. The prize for the Best Paper was awarded to Yael Berkman and Ishay Haviv for their paper *Kernelization for H -Coloring*.

In addition, this volume contains the description of the PACE 2025 challenge as well as of the best performing solvers in the challenge. The PACE (Parameterized Algorithms and Computational Experiments) challenge has been hosted by IPEC since 2016 to emphasize the link between theory and practice. This year's problems were the classic DOMINATING SET and HITTING SET problems. Details of the challenge are given in an included article by the PACE 2025 program committee, consisting of Mario Grobler and Sebastian Siebertz (chair). The conference also hosted a PACE 2025 award session with brief presentations of the winning solvers and a PACE 2025 poster session.

The IPEC 2025 conference had two keynote talks. The first was an invited tutorial lecture by Martin Koutecký, titled *Parameterized Algorithms Via and For Block-Structured Integer Programs*. An invited article by Martin Koutecký, *A Brief History of Parameterized Algorithms for Block-Structured Integer Programs*, is included in this volume. The second keynote was by Jaroslav Nešetřil and Patrice Ossona de Mendez on *Sparsity and More*, as winners of the 2025 EATCS-IPEC Nerode Prize. The prize was awarded to them for four papers that laid the foundations of sparsity: an area of structural graph theory centered around the concepts of nowhere dense graph classes and graph classes with bounded expansion.

Finally, we wish to thank the program committee for the thorough reviews and discussions and to thank the external reviewers for their in-depth reviews. We also thank the authors who submitted their work, all participants for their interest, and the session chairs for guiding each session. We are grateful to the local organizers of ALGO 2025 for making the conference run as smoothly as it did and particularly to Paweł Rzażewski for his helpfulness and the fast communication.

Akanksha Agrawal and Erik Jan van Leeuwen
Madras and Utrecht, October 2025

■ 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	8h 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
2024	19th IPEC,	Egham, United Kingdom	chairs: Édouard Bonnet and Paweł Rzażewski
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