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- R1. *Dimitrios M. Thilikos*. Invitation to fixed-parameter algorithms. **Computer Science Review**, Vol. 1(2), pp. 103–104, 2007

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- S1. Christophe Paul, Evangelos Protopapas, *Dimitrios M. Thilikos*, and Sebastian Wiederrecht. Obstructions to Erdős-Pósa Dualities for Minors. The 65th Annual Symposium on Foundations of Computer Science, sponsored by the IEEE Computer Society (**FOCS 2024**), Chicago, October 27-30, 2024.
- S2. Christophe Paul, Evangelos Protopapas, *Dimitrios M. Thilikos*, and Sebastian Wiederrecht. Delineating Half-Integrality of the Erdős-Pósa Property for Minors: the Case of Surfaces. The 51th International Colloquium on Automata, Languages and Programming (**ICALP 2024**), Tallinn, Estonia, July 8-12, 2024.
- S3. Filippou Christodoulou, Pierluigi Crescenzi, Andrea Marino, Ana Silva and *Dimitrios M. Thilikos*. Making the Interval Membership Width of Temporal Graphs Connected and Bidirectional. 35th International Workshop on Combinatorial Algorithms (**IWOCA 2024**), Ischia, Italy, 1-3 July 2024.
- S4. Nicole Schirmacher, Sebastian Siebertz, Giannos Stamoulis, *Dimitrios M. Thilikos*, and Alexandre Vigny. Model Checking Disjoint-Paths Logic on Topological-Minor-Free Graph Classes, 39th Annual ACM/IEEE Symposium on Logic in Computer Science (**LICS 2024**), Tallinn, Estonia, July 8-12, 2024.
- S5. Sebastian Wiederrecht and *Dimitrios M. Thilikos*. Approximating branchwidth on parametric extensions of planarity. 50th International Workshop on Graph-Theoretic Concepts in Computer Science (**WG 2024**), 19-21 June 2024, Gozd Martuljek, Slovenia.
- S6. Lars Jaffke, Laure Morelle, Ignasi Sau, Giannos Stamoulis, and *Dimitrios M. Thilikos*. Dynamic programming on bipartite tree decompositions. The 18th International Symposium on Parameterized and Exact Computation (**IPEC 2023**), Amsterdam, the Netherlands, September 4-8, 2023.
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- S9. Archontia C. Giannopoulou, *Dimitrios M. Thilikos*, and Sebastian Wiederrecht. Excluding Single-Crossing Matching Minors in Bipartite Graphs. ACM-SIAM Symposium on Discrete Algorithms, (**SODA 2023**), Florence, Italy, January 22-25, 2023.

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- S11. Fedor V. Fomin, Petr A. Golovach, Ignasi Sau, Giannos Stamoulis, and *Dimitrios M. Thilikos*. Obstruction Set Constructibility of Minor-Closed Graph Classes. 11th International Colloquium on Graph Theory and combinatorics (**ICGT 2022**), July 04-08, 2022.
- S12. Eun Jung Kim, Euiwoong Lee, and *Dimitrios M. Thilikos*. A Constant-factor Approximation for Weighted Bond Cover. 24th International Conference on Approximation Algorithms for Combinatorial Optimization Problems (**APPROX 2021**), August 16-18, 2021.
- S13. Stratis Limnios, George Dasoulas, *Dimitrios M. Thilikos*, and Michalis Vazirgiannis. Hcore-Init: Neural Network Initialization based on Graph Degeneracy. *25th International Conference on Pattern Recognition*, (**ICPR 2021**). Milan, Italy, January 10-15, 2021.
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- S18. Dimitris Chatzidimitriou, Archontia C. Giannopoulou, Spyridon Maniatis, Clément Requilé, *Dimitrios M. Thilikos*, and Dimitris Zoros. FPT Algorithms for Plane Completion Problems, 41st International Symposium on Mathematical Foundations of Computer Science (**MFCS 2016**), *Lecture Notes in Computer Science, Springer Verlag*, Krakow, Poland, August 22-26, 2016. Some of the results of this paper were presented in Algorithmic Graph Theory on the Adriatic Coast (**AGTAC 2015**) 16-19 June 2015, Koper, Slovenia and (b) 13th Cologne-Twente Workshop on Graphs & Combinatorial Optimization (**CTW 2015**), Istanbul, May 26-28, 2015.
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- S21. Ioannis Giotis, Lefteris Kirousis, Kostas I. Psaromiligkos, and *Dimitrios M. Thilikos*. An Alternative Proof for the Constructive Asymmetric Lovász Local Lemma. 13th Cologne-Twente Workshop on Graphs & Combinatorial Optimization (**CTW 2015**), Istanbul, May 26-28, 2015.
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- S23. Christos Giatsidis, Fragkiskos D. Malliaros, *Dimitrios M. Thilikos*, and Michalis Vazirgiannis. CoreCluster: A Degeneracy Based Graph Clustering Framework, **AAAI 2014**, July 27-31, 2014, in Quebec City, Canada.
- S24. Menelaos I. Karavelas, Spyridon Maniatis, *Dimitrios M. Thilikos*, and Dimitris Zoros. Geometric Extensions of Cutwidth in any Dimension. 9th International colloquium on graph theory and combinatorics, **ICGT 2014**, Grenoble, France, June 30–July 4, 2014.
- S25. Rémy Belmonte, Archontia C. Giannopoulou, Daniel Lokshantov, and *Dimitrios M. Thilikos*. Structure of W_4 -immersion free graphs. 9th International colloquium on graph theory and combinatorics, **ICGT 2014**, Grenoble, France, June 30–July 4, 2014.
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- S27. *Dimitrios M. Thilikos*. Theory and Applications of Bidimensionality, 7th Annual International Conference on Combinatorial Optimization and Applications **COCOA 2013**, December 12–14, 2013, Chengdu, China.
- S28. Jean-Florent Raymond and *Dimitrios M. Thilikos*. Polynomial Gap Extensions of the Erdős–Pósa Theorem. European Conference on Combinatorics, Graph Theory and Applications - **Eurocomb 2013**, September 9–13, 2013.
- S29. Archontia C. Giannopoulou, Marcin Kamiński, and *Dimitrios M. Thilikos*. Excluding Graphs as Immersions in Surface Embedded Graphs. 39th International Workshop on Graph-Theoretic Concepts in Computer Science **WG 2013**, June 19 – 21, 2013.
- S30. Alexander Grigoriev, Athanassios Koutsonas, and *Dimitrios M. Thilikos*. Bidimensionality of Geometric Intersection Graphs. **SOFSEM 2013**, Lecture Notes in Computer Science, Springer Verlag, Vol. 8327, pp. 293–305, 25-30 February, 2013.
- S31. Juanjo Rué, Ignasi Sau, and *Dimitrios M. Thilikos*. Dynamic Programming for H -minor-free Graphs. 18th Annual International Computing and Combinatorics Conference, **COCOON 2012**, August 20–22, 2012.
- S32. Christos Giatsidis, Klaus Berberich, *Dimitrios M. Thilikos*, Michalis Vazirgiannis. Visual exploration of collaboration networks based on graph degeneracy. 18th ACM SIGKDD Conference on Knowledge Discovery and Data Mining **KDD 2012**, August 12-16, 2012. (also appeared as a demo at: 29^e Journées Bases de Données Avancées, **BDA 2013**, and **WWW 2012**, Lyon France.

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- S34. Fedor V. Fomin, Daniel Lokshtanov, Saket Saurabh, and *Dimitrios M. Thilikos*. Linear Kernels for (Connected) Dominating Set on H -minor-free graphs. *ACM-SIAM Symposium on Discrete Algorithms*, **SODA 2012**. Kyoto, Japan, January 17-19, 2012.
- S35. Christos Giatsidis, *Dimitrios M. Thilikos*, Michalis Vazirgiannis. Evaluating cooperation in communities with the k -core structure, *2011 International Conference on Advances in Social Networks Analysis and Mining*, **ASONAM 2011**, Kaohsiung City, Taiwan, July 25-27, 2011.
- S36. Petr A. Golovach, Marcin Kamiński, and *Dimitrios M. Thilikos*. Odd cyclic surface separators in planar graphs. *10th Cologne-Twente Workshop on Graphs and Combinatorial Optimization*, **CTW 2011**, Paris, France, June 18–20, 2011.
- S37. Carme Àlvarez, Amalia Duch, Maria Serna, and *Dimitrios M. Thilikos*. On the existence of Pure Nash Equilibria in Strategic Search Games. *6th International Symposium on Trustworthy Global Computing*, **TGC 2011**, *Lecture Notes in Computer Science*, Springer Verlag, Aachen, Germany, June 9-10, 2011.
- S38. Fedor V. Fomin, Petr A. Golovach and *Dimitrios M. Thilikos*. Approximation algorithms for domination search. *8th Workshop on Approximation and Online Algorithms*, **WAOA 2010**, *Lecture Notes in Computer Science*, Springer Verlag, Vol. 6534, pp. 130–141, Liverpool, United Kingdom, September 6-8, 2010.
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- S40. Frederic Dorn, Fedor V. Fomin, *Dimitrios M. Thilikos*. Fast subexponential algorithm for non-local problems on graphs of bounded genus, *10th Scandinavian Workshop on Algorithm Theory*, **SWAT 2006**, *Lecture Notes in Computer Science*, Springer Verlag, Vol. 4059, pp. 172–183, Riga Latvia, July 6-8, 2006.
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- S42. Fedor V. Fomin, *Dimitrios M. Thilikos*, and Ioan Todinca. Connected graph searching in outerplanar graphs. *7th International Colloquium on Graph Theory*, **ICGT 2005**, Hyères, September 12-16, 2005. Appeared in: **Electronic Notes on Discrete Mathematics**, Elsevier Science Publishers, Vol. 22, pp. 213-216, October 2005.
- S43. Naomi Nishimura, Prabhakar Ragde, and *Dimitrios M. Thilikos*. Parameterized Counting Algorithms for General Graph Covering Problems. *9th International Workshop on Algorithms and Data Structures*, **WADS 2005**, Algorithms and data structures, *Lecture Notes in Computer Science*, Springer Verlag, Vol. 3608, pp. 99–109, Waterloo, Canada, August 15-17, 2005.

- S44. Josep Diaz and *Dimitrios M. Thilikos*. Fast FPT-algorithms for cleaning grids. *23rd International Symposium on Theoretical Aspects of Computer Science*, **STACS 2005**, Lecture Notes in Computer Science, Springer Verlag, Vol. 3884, pp. 361–371, Stuttgart, Germany, February 24-26, 2005. The above results also appeared as: Josep Diaz and *Dimitrios M. Thilikos*. Fast FPT-algorithms for cleaning grids. *Workshop on Graphs, Morphisms and Applications*, **WGMA 2005**, Centre de Recerca Matemàtica (CRM). Bellaterra, Spain 2005.
- S45. Hans L. Bodlaender and *Dimitrios M. Thilikos*. Computing Small Search Numbers in Linear Time. *International Workshop on Parameterized and Exact Computation*, **IWPEC 2004**, Springer Verlag, Vol. 3162, pp. 37–48, Bergen, Norway, September 14-16, 2004.
- S46. Fedor V. Fomin and *Dimitrios M. Thilikos*. Fast parameterized algorithms for graphs on surfaces: Linear kernel and exponential speed-up. *31st International Colloquium on Automata, Languages and Programming*, **ICALP 2004**, Springer Verlag, Vol. 3142, pp. 581–592, Turku, Finland, July 12-16, 2004.
- S47. Fedor V. Fomin and *Dimitrios M. Thilikos*. A simple and fast approach for solving problems on planar graphs. *21st International Symposium on Theoretical Aspects of Computer Science*, **STACS 2004**, Springer Verlag, Vol. 2996, pp. 56 – 67, Montpellier, March 25-27, 2004.
- S48. Fedor V. Fomin and *Dimitrios M. Thilikos*. Dominating sets and local treewidth. *11th Annual European Symposium on Algorithms*, **ESA 2003**, Springer Verlag, Lecture Notes in Computer Science, Vol. 2832, pp. 221 – 229, Budapest, Hungary, September 16-19, 2003.
- S49. Josep Díaz, Jaroslav Nešetřil, Maria Serna, and *Dimitrios M. Thilikos*. H -coloring of large degree graphs. *1st Eurasian Conference on Advances in Information and Communication Technology 2002*, **EURASIA 2002**. Springer Verlag, Lecture Notes in Computer Science, Vol. 2510, pp. 850–857, Shiraz, Iran, October 29-31, 2002.
- S50. Josep Díaz, Dimitrios Koukopoulos, Sotiris Nikolettseas, Maria Serna, Paul Spirakis, and *Dimitrios M. Thilikos*. Stability and non-stability of the FIFO protocol. *13th ACM Symposium on Parallel Algorithms and Architectures* **SPAA 2001**, pp. 48–52, Crete Island, Greece, July 4-6, 2001.
- S51. *Dimitrios M. Thilikos*, Maria J. Serna, and Hans L. Bodlaender. Constructive linear time algorithms for small cutwidth and carving-width. *11th International Symposium on Algorithms and Computation* **ISAAC 2000**, Springer Verlag, Lecture Notes on Computer Science, Vol. 1969, pp. 192–203, Taipei, Taiwan, December 18-20, 2000. The first part of this paper is paper [J113](#)
- S52. Yannis C. Stamatiou and *Dimitrios M. Thilikos*. Monotonicity and Inert Fugitive Search Games. *6th Twente Workshop on Graphs and Combinatorial Optimization* **CTW 1999**, University of Twente, Enschede, the Netherlands, 26-28 May 1999. Appeared in: **Electronic Notes on Discrete Mathematics**, H.J. Broersma, U. Faigle, C. Hoede, and J.L. Hurink (eds.), Vol. 3, Elsevier Science Publishers, April 2000.
- S53. *Dimitrios M. Thilikos*. Quickly Excluding $K_{2,r}$ from Planar Graphs. *6th Twente Workshop on Graphs and Combinatorial Optimization* **CTW 1999**, University of Twente, Enschede, the Netherlands, 26-28 May 1999. Appeared in: **Electronic Notes on Discrete Mathematics**, H.J. Broersma, U. Faigle, C. Hoede, and J.L. Hurink (eds.), Vol. 3, Elsevier Science Publishers, April 2000.

- S54. Hans L. Bodlaender and *Dimitrios M. Thilikos*. Constructive linear time algorithms for branchwidth. *24th International Colloquium on Automata, Languages, and Programming, ICALP 1997*, Springer Verlag, Lecture Notes in Computer Science, Vol. 1256, pp. 627–637, Bologna, Italy, July 07-11, 1997. The first part of this paper has been published in journal [J126](#).
- S55. Dimitrios Blonis, Sotiris Nikolettseas, Dimitris Sofotasios, Athina Spiliou, Paul Spirakis, *Dimitrios M. Thilikos*, and Bassilis Triantafillou. An efficient implementation of material requirements planning by using cache memory. *Advanced Summer Institute 1994 in Computer Integrated Manufacturing and Industrial Automation ASI 1994*, Patras, Greece, 26 June—1 July 1994

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- S-i. Sebastian Wiederrecht and *Dimitrios M. Thilikos*. Killing a Vortex. 63rd IEEE Symposium on Foundations of Computer Science (**FOCS 2022**), Denver, Colorado, USA, October 31–November 03, 2022. Published in journal [J1](#).
- S-ii. Laure Morelle, Ignasi Sau, Giannos Stamoulis, and *Dimitrios M. Thilikos*. Faster parameterized algorithms for modification problems to minor-closed classes. The 50th International Colloquium on Automata, Languages and Programming (**ICALP 2023**), Paderborn, Germany, July 10-14, 2023. Published in journal [J5](#).
- S-iii. Julien Baste, Ignasi Sau, and *Dimitrios M. Thilikos*. Hitting Minors on Bounded Treewidth Graphs. IV. An Optimal Algorithm, ACM-SIAM Symposium on Discrete Algorithms (**SODA 2020**), Salt Lake City, Utah, January 5–8, 2020. Published in journal [J6](#).
- S-iv. Fedor V. Fomin, Petr A. Golovach, and *Dimitrios M. Thilikos*. Can Romeo and Juliet Meet? Or Rendezvous Games with Adversaries on Graphs. 47th International Workshop on Graph-Theoretic Concepts in Computer Science (**WG 2021**), June 23-25, 2021. Published in journal [J7](#).
- S-v. Emmanouil Lardas, Evangelos Protopapas, *Dimitrios M. Thilikos*, and Dimitris Zoros. On Strict Brambles. 11th International Colloquium on Graph Theory and combinatorics (**ICGT 2022**), July 04-08, 2022. Published in journal [J9](#).
- S-vi. Petr A. Golovach, Giannos Stamoulis, and *Dimitrios M. Thilikos*. Hitting Topological Minor Models in Planar Graphs is Fixed Parameter Tractable, ACM-SIAM Symposium on Discrete Algorithms (**SODA 2020**), Salt Lake City, Utah, January 5–8, 2020. A later version of the algorithmic results of this paper was published in journal [J10](#) while the combinatorial results have appeared in journal [J3](#).
- S-vii. Fedor V. Fomin, Petr A. Golovach, Giannos Stamoulis, and *Dimitrios M. Thilikos*. An Algorithmic Meta-Theorem for Graph Modification to Planarity and FOL. *28th Annual European Symposium on Algorithms, (ESA 2020)*. Pisa, Italy, September 7-10, 2020. Published in journal [J12](#)
- S-viii. Öznur Yaşar Diner, Archontia C. Giannopoulou, Giannos Stamoulis, and *Dimitrios M. Thilikos*. Block Elimination Distance. 47th International Workshop on Graph-Theoretic Concepts in Computer Science (**WG 2021**), June 23-25, 2021. Published in journal [J13](#) .

- S-ix. Ignasi Sau, Giannos Stamoulis, and *Dimitrios M. Thilikos*. An FPT-algorithm for recognizing k -apices of minor-closed graph classes. The 47th International Colloquium on Automata, Languages and Programming (**ICALP 2020**), Saarbrücken, Germany, July 8-11, 2020. The algorithmic results of this paper have been published in journal [J14](#) and the combinatorial results have been published in journal [J8](#).
- S-x. Fedor Fomin, Petr Golovach, and *Dimitrios M. Thilikos*. Parameterized Complexity of Elimination Distance to First-Order Logic Properties. *36th Annual Symposium on Logic in Computer Science*. 29 June – 02 July, 2021, (**LICS 2021**). Published in journal [J15](#).
- S-xi. Mamadou Moustapha Kanté, Christophe Paul, and *Dimitrios M. Thilikos*. A linear fixed parameter tractable algorithm for connected pathwidth. *28th Annual European Symposium on Algorithms*, (**ESA 2020**). Pisa, Italy, September 7-10, 2020. Published in journal [J16](#).
- S-xii. Isolde Adler, Christophe Paul, and *Dimitrios M. Thilikos*. Connected Search for a Lazy Robber, 39th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (**FST-TCS 2019**), Bombay, December 11–13, 2019. Published in journal [J20](#).
- S-xiii. Julien Baste, Ignasi Sau, and *Dimitrios M. Thilikos*. Contraction-Bidimensionality of Geometric Intersection Graphs, 12th International Symposium on Parameterized and Exact Computation (**IPEC 2017**), *Leibniz International Proceedings in Informatics, LIPIcs*, Wien, September 6–8, 2017. Published in journal [J18](#).
- S-xiv. Julien Baste, Didem Gözüpek, Mordechai Shalom, and *Dimitrios M. Thilikos*. Minimum Reload Cost Graph Factors, 45th International Conference on Current Trends in Theory and Practice of Computer Science (**SOFSEM 2019**), *Lecture Notes in Computer Science 11376*, Springer 2019, Nový Smokovec, Slovakia, January 27-30, 2019. Published in journal [J21](#)
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