Michał Pilipczuk
Lista publikacji z dnia 31 października 2014

Prace oryginalne w czasopismach

Przy publikacjach, które miały wcześniejszą wersję konferencyjną, uwzględniana jest informacja o tej wersji (punkt Konf.).

[1] Stefan Kratsch, Marcin Pilipczuk, Michał Pilipczuk, Magnus Wahlström,
Fixed-parameter tractability of Multicut in directed acyclic graphs,
Praca przyjęta do publikacji w SIAM Journal on Discrete Mathematics
Konf.: Proceedings of the 39th International Colloquium on Automata, Languages, and Programming, ICALP 2012
Volume 7391 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[2] Fedor V. Fomin, Petr A. Golovach, Jesper Nederlof, Michał Pilipczuk,
Minimizing Rosenthal potential in multicast games,
Konf.: Proceedings of the 39th International Colloquium on Automata, Languages, and Programming, ICALP 2012
Volume 7392 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[3] Fedor V. Fomin, Archontia C. Giannopoulou, Michał Pilipczuk,
Computing tree-depth faster than \(2^n\),
Algorithmica, Springer, 2014 (online first)
Konf.: Proceedings of the 8th International Symposium on Parameterized and Exact Computation, IPEC 2013
Volume 8246 of Lecture Notes in Computer Science (LNCS), Springer, 2013

[4] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk, Jakub Onufry Wojtaszczyk,
Sitting closer to friends than enemies, revisited,
Volume 7464 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[5] Fedor V. Fomin, Stefan Kratsch, Marcin Pilipczuk, Michał Pilipczuk, Yngve Villanger,
Tight bounds for parameterized complexity of Cluster Editing with a small number of clusters,
Konf.: Proceedings of the 30th International Symposium on Theoretical Aspects of Computer Science, STACS 2013
Volume 20 of LIPIcs, Schloß Dagstuhl — Leibniz-Zentrum für Informatik, 2013

[6] Fedor V. Fomin, Bart M. P. Jansen, Michał Pilipczuk,
Preprocessing subgraph and minor problems: when does a small vertex cover help?,
Konf.: Proceedings of the 7th International Symposium on Parameterized and Exact Computation, IPEC 2012
Volume 7535 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[7] Marek Cygan, Stefan Kratsch, Marcin Pilipczuk, Michał Pilipczuk, Magnus Wahlström,
Clique cover and graph separation: New incompressibility results,
ACM Transactions on Computation Theory 6(2):6, ACM, 2014
Konf.: Proceedings of the 39th International Colloquium on Automata, Languages, and Programming, ICALP 2012
Volume 7391 of Lecture Notes in Computer Science (LNCS), Springer, 2012

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[8] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk, Jakub Onufry Wojtaszczyk, 
Solving the 2-Disjoint Connected Subgraphs problem faster than \(2^n\), 
Konf.: Proceedings of the 10th Latin American Symposium on Theoretical Informatics, LATIN 2012  
Volume 7256 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[9] Marek Cygan, Daniel Lokshtanov, Marcin Pilipczuk, Michal Pilipczuk, Saket Saurabh, 
On cutwidth parameterized by vertex cover, 
Volume 7112 of Lecture Notes in Computer Science (LNCS), Springer, 2011

[10] Marek Cygan, Marcin Pilipczuk, Michal Pilipczuk, Jakub Onufry Wojtaszczyk, 
Scheduling partially ordered jobs faster than \(2^n\), 
Volume 6942 of Lecture Notes in Computer Science (LNCS), Springer, 2011

Parameterized complexity of Eulerian deletion problems, 
Konf.: Proceedings of the 37th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2011  
Volume 6986 of Lecture Notes in Computer Science (LNCS), Springer, 2011

[12] Marek Cygan, Daniel Lokshtanov, Marcin Pilipczuk, Michal Pilipczuk, Saket Saurabh, 
On the hardness of losing width, 
Volume 7112 of Lecture Notes in Computer Science (LNCS), Springer, 2011

[13] Petr A. Golovach, Pinar Heggernes, Pim van ’t Hof, Fredrik Manne, Daniël Paulusma, Michał Pilipczuk, 
Modifying a graph using vertex elimination, 
Algorithmica, Springer, 2013 (online first)  
Konf.: Proceedings of the 38th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2012  
Volume 7551 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[14] Marek Cygan, Marcin Pilipczuk, Michal Pilipczuk, Jakub Onufry Wojtaszczyk, 
Subset Feedback Vertex Set is fixed-parameter tractable, 
Konf.: Proceedings of the 38th International Colloquium on Automata, Languages, and Programming, ICALP 2011  
Volume 6755 of Lecture Notes in Computer Science (LNCS), Springer, 2011

[15] Marek Cygan, Marcin Pilipczuk, Michal Pilipczuk, Jakub Onufry Wojtaszczyk, 
On Multiway Cut parameterized above lower bounds, 
Volume 7112 of Lecture Notes in Computer Science (LNCS), Springer, 2011

[16] Marek Cygan, Marcin Pilipczuk, Michal Pilipczuk, Jakub Onufry Wojtaszczyk, 
A polynomial algorithm for 3-Compatible Coloring and the stubborn list partition problem  
(the stubborn problem is stubborn no more), 
[17] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk, Jakub Onufry Wojtaszczyk,
Improved FPT algorithm and quadratic kernel for Pathwidth One Vertex Deletion,
Konf.: Proceedings of the 5th International Symposium on Parameterized and Exact Computation, IPEC 2010
Volume 6478 of Lecture Notes in Computer Science (LNCS), Springer, 2010

[18] Marcin Pilipczuk, Michał Pilipczuk, Riste Škrekovski,
Some results on Vizing's conjecture and related problems,

[19] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk, Jakub Onufry Wojtaszczyk,
Kernelization hardness of connectivity problems in d-degenerate graphs,
Konf.: Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2010
Volume 6410 of Lecture Notes in Computer Science (LNCS), Springer, 2010

[20] Marek Cygan, Michał Pilipczuk, Riste Škrekovski,
On the inequality between radius and Randić index for graphs,
MATCH Communications in Mathematical and in Computer Chemistry 67(2), pp. 451–466, 2012

[21] Marek Cygan, Geevarghese Philip, Marcin Pilipczuk, Michał Pilipczuk, Jakub Onufry Wojtaszczyk,
Dominating Set is fixed parameter tractable in claw-free graphs,

[22] Marek Cygan, Michał Pilipczuk, Riste Škrekovski,
Relation between Randić index and average distance of trees,
MATCH Communications in Mathematical and in Computer Chemistry 66(2), pp. 605–612, 2011

Prace konferencyjne

[23] Daniel Lokshtanov, Marcin Pilipczuk, Michał Pilipczuk, Saket Saurabh,
Fixed-parameter tractable canonization and isomorphism test for graphs of bounded treewidth,

[24] Marcin Pilipczuk, Michal Pilipczuk, Erik Jan van Leeuwen, Piotr Sankowski,
Network sparsification for Steiner problems on planar and bounded-genus graphs,

[25] Ivan Bliznets, Fedor V. Fomin, Marcin Pilipczuk, Michał Pilipczuk,
A subexponential parameterized algorithm for Proper Interval Completion,
Proceedings of the 22nd Annual European Symposium on Algorithms, ESA 2014
Volume 8737 of Lecture Notes in Computer Science (LNCS), Springer, 2014

[26] Marek Cygan, Dániel Marx, Marcin Pilipczuk, Michał Pilipczuk,
Hitting forbidden subgraphs in graphs of bounded treewidth,
Volume 8635 of Lecture Notes in Computer Science (LNCS), Springer, 2014

[27] Marek Cygan, Daniel Lokshtanov, Marcin Pilipczuk, Michał Pilipczuk, Saket Saurabh,
Minimum Bisection is fixed parameter tractable,
[28] Pål Grønås Drange, Fedor V. Fomin, Michał Pilipczuk, Yngve Villanger,  
Exploring subexponential parameterized complexity of completion problems,  
Proceedings of the 31st International Symposium on Theoretical Aspects of Computer Science, STACS 2014  

[29] Dániel Marx, Michał Pilipczuk,  
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Proceedings of the 31st International Symposium on Theoretical Aspects of Computer Science, STACS 2014  

[30] Claire David, Piotr Hofman, Filip Murlak, Michał Pilipczuk,  
Synthesizing transformations from XML schema mappings,  
Proceedings of the 17th International Conference on Database Theory, ICDT 2014

[31] Marek Cygan, Dániel Marx, Marcin Pilipczuk, Michał Pilipczuk,  
The planar directed k-Vertex-Disjoint Paths problem is fixed-parameter tractable,  

[32] Hans L. Bodlaender, Pål Grønås Drange, Markus Sortland Dregi, Fedor V. Fomin, Daniel Lokshtanov, Michał Pilipczuk,  
An $O(c^kn)$ 5-approximation algorithm for treewidth,  

[33] Ivan Bliznets, Fedor V. Fomin, Michał Pilipczuk, Yngve Villanger,  
Largest chordal and interval subgraphs faster than $2^n$,  
Proceedings of the 21st Annual European Symposium on Algorithms, ESA 2013  
Volume 8125 of Lecture Notes in Computer Science (LNCS), Springer, 2013

[34] Fedor V. Fomin, Michał Pilipczuk,  
Subexponential parameterized algorithm for computing the cutwidth of a semi-complete digraph,  
Proceedings of the 21st Annual European Symposium on Algorithms, ESA 2013  
Volume 8125 of Lecture Notes in Computer Science (LNCS), Springer, 2013

[35] Marcin Pilipczuk, Michał Pilipczuk, Piotr Sankowski, Erik Jan van Leeuwen,  
Subexponential-time parameterized algorithm for Steiner tree on planar graphs,  
Proceedings of the 30th International Symposium on Theoretical Aspects of Computer Science, STACS 2013  
Volume 20 of LIPIcs, Schloß Dagstuhl — Leibniz-Zentrum für Informatik, 2013

[36] Michał Pilipczuk,  
Computing cutwidth and pathwidth of semi-complete digraphs via degree orderings,  
Proceedings of the 30th International Symposium on Theoretical Aspects of Computer Science, STACS 2013  
Volume 20 of LIPIcs, Schloß Dagstuhl — Leibniz-Zentrum für Informatik, 2013

[37] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk,  
Known algorithms for Edge Clique Cover are probably optimal,  

[38] Fedor V. Fomin, Michał Pilipczuk,  
Jungles, bundles, and fixed parameter tractability,  

[39] Rajesh Chitnis, Marek Cygan, MohammadTaghi Hajiaghayi, Marcin Pilipczuk, Michał Pilipczuk,  
Designing FPT algorithms for cut problems using randomized contractions,  
[40] Marcin Pilipczuk, Michał Pilipczuk,
Finding a maximum induced degenerate subgraph faster than $2^n$,
Proceedings of the 7th International Symposium on Parameterized and Exact Computation, IPEC 2012
Volume 7535 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[41] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk,
On Group Feedback Vertex Set parameterized by the size of the cutset,
Proceedings of the 38th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2012
Volume 7551 of Lecture Notes in Computer Science (LNCS), Springer, 2012

[42] Marek Cygan, Jesper Nederlof, Marcin Pilipczuk, Michał Pilipczuk, Johan van Rooij, Jakub Onufry Wojtaszczyk,
Solving connectivity problems parameterized by treewidth in single exponential time,

[43] Michał Pilipczuk,
Problems parameterized by treewidth tractable in single exponential time: a logical approach,
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