

Lista publikacji

- październik 2011

I. Prace oryginalne (rozdziały w książkach zbiorowych, artykuły w czasopismach):

1. **Cygan M.**, Pilipczuk M., Skrekovski R., 2011, ***Relation between Randić index and average distance of trees***, *MATCH Communications in Mathematical and in Computer Chemistry*, 66(2): 605-612.
2. **Cygan M.**, Pilipczuk M., Woitaszczyk J. O., 2011, ***Capacitated domination faster than $O(2^n)$*** , *Information Processing Letters*, 111: 1099-1103.
3. **Cygan M.**, Kowalik Ł., 2011, ***Channel assignment via fast zeta transform***, *Information Processing Letters*, 111(15): 727-730.
4. Binkele-Raible D., Brankovic L., **Cygan M.**, Fernau H., Kneis J., Kratsch D., Langer A., Liedloff M., Pilipczuk M., Rossmanith P., Woitaszczyk J. O., 2011, ***Breaking the 2^n -barrier for Irredundance: Two lines of attack***, *Journal of Discrete Algorithms*, 9(3): 214-230.
5. **Cygan M.**, Pilipczuk M., 2010, ***Exact and approximate Bandwidth***, *Theoretical Computer Science*, 411: 3701-3713.
6. **Cygan M.**, Kowalik Ł., Wykurz M., 2009, ***Exponential-Time Approximation of Weighted Set Cover***, *Information Processing Letters*, 109: 957-961.

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7. **Cygan M.**, Pilipczuk M., Pilipczuk M., Woitaszczyk J. O., ***An improved FPT algorithm and a quadratic kernel for Pathwidth One Vertex Deletion***, *Algorithmica*.
8. **Cygan M.**, Philip G., Pilipczuk M., Woitaszczyk J. O., ***Dominating set is fixed parameter tractable in claw-free graphs***, *Theoretical Computer Science*.
9. **Cygan M.**, Hou J. F., Kowalik Ł., Lužar B., Wu J. L., ***A planar Linear Arboricity Conjecture***, *Journal of Graph Theory*.
10. **Cygan M.**, Pilipczuk M., ***Even faster exact Bandwidth***, *ACM Transactions on Algorithms*.

II. Prace pokonferencyjne i doniesienia zjazdowe:

1. **Cygan M.**, Pilipczuk M., Woitaszczyk J. O., 2011, ***Subset Feedback Vertex Set Is Fixed-Parameter Tractable***, Automata, Languages and Programming – 38th International Colloquium (ICALP 2011), LNCS 6755: 449-461.
2. **Cygan M.**, Pilipczuk M., Woitaszczyk J. O., 2011, ***Scheduling Partially Ordered Jobs Faster Than 2^n*** , 19th Annual European Symposium on Algorithms (ESA 2011), LNCS 6942: 299-310.
3. **Cygan M.**, Pilipczuk M., Woitaszczyk J. O., 2011, ***The stubborn problem is stubborn no more (a polynomial algorithm for 3-compatible colouring and the stubborn list partition problem)***, ACM SIAM Symposium on Discrete Algorithms (SODA 2011), 1666-1674.

4. Cygan M., Kubica M., Radoszewski J., Rytter W., Waleń T., ***Polynomial-Time Approximation Algorithms for Weighted LCS Problem***, Combinatorial Pattern Matching – 22nd Annual Symposium (CPM 2011), LNCS 6661: 455-466.
5. Cygan M., Pilipczuk M., Wojtaszczyk J. O., 2010, ***Improved FPT algorithm and quadratic kernel for Pathwidth One Vertex Deletion***, International Symposium on Parameterized and Exact Computation (IPEC 2010), LNCS 6478: 95-106.
6. Cygan M., Kowalik Ł., Mucha M., Pilipczuk M., Sankowski P., 2010, ***Fast approximation in subspaces by doubling metric decomposition***, 18th Annual European Symposium on Algorithms (ESA 2010), LNCS 6346: 72-83.
7. Cygan M., Pilipczuk M., Wojtaszczyk J. O., 2010, ***Kernelization hardness of connectivity problems in d-degenerate graphs***, 36th International Workshop on Graph Theoretic Concepts in Computer Science (WG 2010), LNCS 6410: 147-158.
8. Cygan M., Pilipczuk M., Wojtaszczyk J. O., 2010, ***Capacitated domination faster than $O(2^n)$*** , 12th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT 2010), LNCS 6139: 74-80.
9. Cygan M., Pilipczuk M., Wojtaszczyk J. O., 2010, ***Irredundant set faster than $O(2^n)$*** , Algorithms and Complexity, 7th International Conference (CIAC 2010), LNCS 6078: 288-298.
10. Cygan M., Kowalik Ł., Luzar B., 2010, ***A Planar Linear Arboricity Conjecture***, Algorithms and Complexity, 7th International Conference (CIAC 2010), LNCS 6078: 204-216.
11. Crochemore M., Cygan M., Iliopoulos C., Kubica M., Radoszewski J., Rytter W., Waleń T., 2010, ***Algorithms for Three Versions of the Shortest Common Superstring Problem***, Combinatorial Pattern Matching, 21st Annual Symposium (CPM 2010), LNCS 6129: 299-309.
12. Cygan M., Pilipczuk M., 2009, ***Exact and approximate Bandwidth***, 36th International Colloquium on Automata, Languages and Programming (ICALP 2009), LNCS 5555: 304-315.
13. Cygan M., Pilipczuk M., 2008, ***Faster exact Bandwidth***, 34th International Workshop on Graph Theoretic Concepts in Computer Science (WG 2008), LNCS 5344: 101-109.

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14. Cygan M., Nederlof J., Pilipczuk M., van Rooij J. M. M., Wojtaszczyk J. O., ***Solving connectivity problems parameterized by treewidth in single exponential time***, 52nd Annual IEEE Symposium on Foundations of Computer Science (FOCS 2011).
15. Cygan M., Marx D., Pilipczuk M., Schlotter I., ***Parameterized Complexity of Eulerian Deletion Problems***, 37th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2011).
16. Cygan M., Pilipczuk M., Wojtaszczyk J.O., ***On Multiway Cut parameterized above lower bounds***, 6th International Symposium on Parameterized and Exact Computation (IPEC 2011).
17. Cygan M., Fomin F., van Leeuwen E. J., ***Parameterized Complexity of Firefighting Revisited***, 6th International Symposium on Parameterized and Exact Computation (IPEC 2011).
18. Cygan M., Lokshtanov D., Pilipczuk M., Saurabh S., ***On cutwidth parameterized by vertex cover***, 6th International Symposium on Parameterized and Exact Computation (IPEC 2011).

19. **Cygan M.**, Lokshtanov D., Pilipczuk M., Saurabh S., ***On the hardness of losing width***, 6th International Symposium on Parameterized and Exact Computation (IPEC 2011).
20. **Cygan M.**, Grandoni F., Leonardi S., Mucha M., Pilipczuk M., Sankowski P., ***Approximation Algorithms for Union and Intersection Covering Problems***, IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2011).

III. Prace popularnonaukowe:

1. **Cygan M.**, Pilipczuk M., 2011, ***Drzewo Steiner – jedno zagadnienie, mnóstwo problemów***, *Delta* 2011/04.
2. **Cygan M.**, 2009, ***Algorytmy aproksymacyjne***, *Delta* 2009/07.