Sepehr Hajebi

Publications (May 27, 2024)

▶ Published (13):

24. List-k-Coloring H-free graphs for all $k > 4$
Combinatorica (2024)
with M. Chudnovsky and S. Spirkl.

23. Tree independence number
I. (Even hole, diamond, pyramid)-free graphs
J. Graph Theory (2024)
with T. Abrishami, B. Alecu, M. Chudnovsky, S. Spirkl and K. Vušković.

22. Induced subgraphs and tree decompositions
VIII. Excluding a forest in (theta, prism)-free graphs
Combinatorica (2024)
with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

21. List-3-Coloring ordered graphs with a forbidden induced subgraph
SIAM J. Discrete Math 38(1) (2024)
with Y. Li and S. Spirkl.

20. Hitting all maximum stable sets in P_5-free graphs
J. Comb. Theory Ser. B 165 (2024)
with Y. Li and S. Spirkl.

19. Induced subgraphs and tree decompositions
VII. Basic obstructions in H-free graphs
J. Comb. Theory Ser. B 164 (2024)
with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

18. Induced subgraphs and tree decompositions
II. Toward walls and their line graphs in graphs of bounded degree
J. Comb. Theory Ser. B 164 (2024)
with T. Abrishami, M. Chudnovsky, C. Dibek, P. Rzążewski, S. Spirkl and K. Vušković.

17. Induced subgraphs and tree decompositions
V. One neighbor in a hole
J. Graph Theory (2023)
with T. Abrishami, B. Alecu, M. Chudnovsky, S. Spirkl and K. Vušković.

16. Induced subgraphs and tree decompositions
IV. (Even hole, diamond, pyramid)-free graphs
Electron. J. Comb 30(2) (2023)
with T. Abrishami, M. Chudnovsky and S. Spirkl.

15. Induced subgraphs and tree decompositions
III. Three-path-configurations and logarithmic treewidth
Advances in Combinatorics (6) (2022)
with T. Abrishami, M. Chudnovsky and S. Spirkl.

14. Complexity dichotomy for List-5-Coloring with a forbidden induced subgraph
SIAM J. Discrete Math 256(6) (2022)
with Y. Li and S. Spirkl.

13. Minimal induced subgraphs of two classes of 2-connected non-Hamiltonian graphs
Discrete Math. 345(7) (2022)
with J. Cheriyan, Z. Qu and S. Spirkl.

12. Edge clique cover of claw-free graphs
J. Graph Theory 90(3) (2019)
with R. Javadi.

▶ SUBMITTED (11):

11. Tree independence number
II. Three-path-configurations
arxiv:2405.00265 (2024)
with M. Chudnovsky, D. Lokshtanov and S. Spirkl.

10. Induced subgraphs and tree decompositions
XV. Even-hole-free graphs with bounded clique number have logarithmic treewidth
arxiv:2402.14211 (2024)
with M. Chudnovsky, P. Gartland, D. Lokshtanov and S. Spirkl.

9. Chordal graphs, even-hole-free graphs and sparse obstructions to bounded treewidth
arxiv:2401.01299 (2024)
solo paper.

8. Induced subgraphs and tree decompositions
XIV. Non-adjacent neighbors in a hole
arxiv:2311.05719 (2023)
with M. Chudnovsky and S. Spirkl.

7. Induced subgraphs and tree decompositions
XIII. Basic obstruction in $\mathcal{H}$-free graphs for finite $\mathcal{H}$
arxiv:2311.05066 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.

6. Induced subgraphs and tree decompositions
XII. Grid Theorem for pinched graphs
arXiv:2309.12227 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.

5. Induced subgraphs and tree decompositions
XI. Local structure in even-hole-free graphs of large treewidth
arXiv:2205.04420 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.

4. Induced subdivisions with pinned branch vertices
arXiv:2308.01502 (2023)
solo paper.

3. Induced subgraphs and tree decompositions
X. Towards logarithmic treewidth for even-hole-free graphs
arXiv:2307.13684 (2023)
with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

2. Induced subgraphs and tree decompositions
IX. Grid theorem for perforated graphs
arXiv:2305.15615 (2023)
with B. Alecu, M. Chudnovsky and S. Spirkl.

1. Induced subgraphs and tree decompositions
VI. Graphs with 2-cutsets
arXiv:2207.05538 (2022)
with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

▶ Upcoming:

-1. Tree independence number
III. Even-hole-free graphs
with M. Chudnovsky, D. Lokshtanov and S. Spirkl.

-2. Tree independence number
IV. Excluding a star in (theta, prism)-free graphs
with M. Chudnovsky, S. Spirkl and N. Trotignon.

-3. Induced subgraphs and tree decompositions
XVI. Grid Theorem for constellations
with M. Chudnovsky and S. Spirkl.

-4. Induced subgraphs and tree decompositions
XVII. Complete bipartite induced minors
with M. Chudnovsky and S. Spirkl.

-5. Induced subgraphs and tree decompositions
XVIII. Anticomplete induced subgraphs of large treewidth
with M. Chudnovsky and S. Spirkl.