Sepehr Hajebi

Publications (February 21, 2024)

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All manuscripts available at http://arxiv.org/a/hajebi_s_1.

▶ Published (9):

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

21. **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.

20. **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.

19. **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.

18. **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.

17. **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.

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

15. **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.

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

► Accepted or in revision (3):

13. **Tree independence number**
I. (Even hole, diamond, pyramid)-free graphs
J. Graph Theory (accepted)
arXiv:2305.16258 (2023)
with T. Abrishami, B. Alecu, M. Chudnovsky, S. Spirkl and K. Vušković.

12. **List-3-Coloring ordered graphs with a forbidden induced subgraph**
SIAM J. Discrete Math (accepted)
arXiv:2206.06543 (2022)
with Y. Li and S. Spirkl.

11. **Induced subgraphs and tree decompositions**
VIII. Excluding a forest in (theta, prism)-free graphs
Combinatorica (in revision)
arXiv:2301.02138 (2023)
with T. Abrishami, B. Alecu, M. Chudnovsky and S. Spirkl.

► Submitted (10):

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

9. **List-k-Coloring H-free graphs for all $k > 4$**
arxiv:2311.05713 (2023)
with M. Chudnovsky and S. Spirkl.

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 (2022)

▶ Upcoming (3):

-1. **Induced subgraphs and tree decompositions**
XV. Even-hole-free graphs have logarithmic treewidth
with M. Chudnovsky, P. Gartland, D. Lokshtanov and S. Spirkl.

-2. **Tree independence number**
II. Three-path-configurations
with M. Chudnovsky, D. Lokshtanov and S. Spirkl.