SEPEHR HAJEBI

Publications (February 23, 2024)

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

- ightharpoonup Published (9):
- 23. Hitting all maximum stable sets in P_5 -free graphs

J. Comb. Theory Ser. B 165 (2024) with Y. Li and S. Spirkl.

- 22. 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.

- 21. 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.

- 20. 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.

- 19. 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.

- 18. 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.

17. Complexity dichotomy for List-5-Coloring with a forbidden induced subgraph

SIAM J. Discrete Math 256(6) (2022)

with Y. Li and S. Spirkl.

16. 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.

15. Edge clique cover of claw-free graphs

J. Graph Theory 90(3) (2019) with R. Javadi.

 \blacktriangleright Accepted or in Revision (4):

14. List-k-Coloring H-free graphs for all k > 4

Combinatorica (in revision) arxiv:2311.05713 (2023) with M. Chudnovsky and S. Spirkl.

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.

► (To Be) Submitted (10):

10. Induced subgraphs and tree decompositions

${\bf XV}.$ Even-hole-free graphs of 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

II. Three-path-configurations

with M. Chudnovsky, D. Lokshtanov and S. Spirkl.