Sepehr Hajebi

Publications (April 8, 2024)

✉ shajebi@uwaterloo.ca | sepehr.hajebi@gmail.com
🐃 sepehrhajebi.com

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

▶ PUBLISHED (11):

23. **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.

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

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

20. **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.

19. **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.

18. **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.

17. **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.

16. **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.

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

14. **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.

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

▶ ACCEPTED OR IN REVISION (2):

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

11. **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.

▶ SUBMITTED (9):

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

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

8. **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.

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

6. **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.

5. **Induced subdivisions with pinned branch vertices**
   `arXiv:2308.01502` (2023)
   solo paper.

4. **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.

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

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

▶ TO BE SUBMITTED (1):

1. **Induced subgraphs and tree decompositions**
   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.

▶ UPCOMING:

-1. **Tree independence number**
   II. Three-path-configurations
   with M. Chudnovsky, D. Lokshtanov and S. Spirkl.

-2. **Tree independence number**
   III. Even-hole-free graphs
   with M. Chudnovsky, D. Lokshtanov and S. Spirkl.

-3. **Tree independence number**
   IV. Excluding a star in (theta, prism)-free graphs
   with M. Chudnovsky, S. Spirkl and N. Trotignon.

-4. **Induced subgraphs and tree decompositions**
   XVI. Anticomplete induced subgraphs of large treewidth
   with M. Chudnovsky and S. Spirkl.