

# SEPEHR HAJEBI

Publications (May 25, 2024)

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All manuscripts available at [http://arxiv.org/a/hajebi\\_s\\_1](http://arxiv.org/a/hajebi_s_1).

## ► 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. Rzażewski, 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. Lokshantov 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. Lokshantov 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.*