

## Selected recent papers of the Graph Theory Group members

1. S. Cichacz, T. Hinc, A magic rectangle set on Abelian groups and its application, *Discrete Appl. Math.* 288 (2021) 201–210; doi: 10.1016/j.dam.2020.08.029
2. J. Kwaśny, J. Przybyło, On the inclusion chromatic index of a graph, *J. Graph Theory* 97(1) (2021) 5–20; doi: 10.1002/jgt.22636
3. J. Przybyło, The 1-2-3 Conjecture almost holds for regular graphs, *J. Combin. Theory Ser. B* 147 (2021) 183–200; doi: 10.1016/j.jctb.2020.03.005
4. J. Przybyło, On the standard  $(2, 2)$ -conjecture, *European J. Combin.* 94 (2021) 1–11; doi: 10.1016/j.ejc.2020.103305
5. J. Przybyło, A. Żak, Largest component and node fault tolerance for grids, *Electron. J. Combin.* 28 (2021) P1.44; doi: 10.37236/8376
6. S. Cichacz, P. Dyrłaga, D. Froncek, Group distance magic Cartesian product of two cycles, *Discrete Math.* 343 (2020) 111807; doi: 10.1016/j.disc.2019.111807
7. A. Gorzkowska, E. Kargul, S. Musiał, K. Pał, Edge-distinguishing of star-free graphs, *Electron. J. Combin.* 27(3) (2020) P3.30; doi: 10.37236/8882
8. A. Górllich, M. Woźniak, A note on packing two copies of a tree into a graph with small maximum degree, *Discrete Math.* 343 (2020) 111991; doi: 10.1016/j.disc.2020.111991
9. W. Imrich, R. Kalinowski, M. Piłśniak, M. Woźniak, The distinguishing index of connected graphs without pendant edges, *Ars Math. Contemp.* 18 (2020) 117–126; doi: 10.26493/1855-3974.1852.4f7
10. F. Lehner, M. Piłśniak, M. Stawiski, A bound for the distinguishing index of regular graphs, *European J. Combin.* 84 (2020) 103145; doi: 10.1016/j.ejc.2020.103145
11. M. Piłśniak, M. Stawiski, The optimal general upper bound for the distinguishing index of infinite graphs, *J. Graph Theory* 93 (2020), 463–469; doi: 10.1002/jgt.22496
12. M. Piłśniak, T. Tucker, Distinguishing index of maps, *European J. Combin.* 84 (2020) 103034; doi: 10.1016/j.ejc.2019.103034
13. M. Anholcer, S. Cichacz, Note on the group edge irregularity strength of graphs, *Appl. Math. Comput.* 350 (2019) 237–241; doi: 10.1016/j.amc.2019.01.007
14. M. Anholcer, S. Cichacz, J. Przybyło, Linear bounds on nowhere-zero group irregularity strength and nowhere-zero group sum chromatic number of graphs, *Appl. Math. Comput.* 343 (2019) 149–155; doi: 10.1016/j.amc.2018.09.056
15. I. Broere, W. Imrich, R. Kalinowski, M. Piłśniak, Asymmetric colorings of products of graphs and digraphs, *Discrete Appl. Math.* 266 (2019) 56–64; doi: 10.1016/j.dam.2018.12.023
16. J. Kwaśny, J. Przybyło, Asymptotically optimal bound on the adjacent vertex distinguishing edge choice number, *Random Structures Algorithms* 54(4) (2019) 768–778; doi: 10.1002/rsa.20813
17. J. Przybyło, Distant total sum distinguishing index of graphs, *Discrete Math.* 342(3) (2019) 683–688; doi: 10.1016/j.disc.2018.10.039
18. J. Przybyło, Distant sum distinguishing index of graphs with bounded minimum degree, *Ars Math. Contemp.* 17 (2019) 37–49; doi: 10.26493/1855-3974.1496.623

19. J. Bensmail, J. Przybyło, Decomposability of graphs into subgraphs fulfilling the 1–2–3 Conjecture, *Discrete Appl. Math.* 268 (2019) 1–9; doi: 10.1016/j.dam.2019.04.011
20. J. Przybyło, A note on the weak (2,2)-conjecture, *Discrete Math.* 342(2) (2019) 498–504; doi: 10.1016/j.disc.2018.10.033
21. J. Przybyło, A note on asymptotically optimal neighbour sum distinguishing colourings, *European J. Combin.* 77 (2019) 49–56; doi: 10.1016/j.ejc.2018.10.009
22. S. Cichacz, Zero sum partition of Abelian groups into sets of the same order and its applications, *Electron. J. Combin.* 25(1) (2018) P1.20; doi: 10.37236/6977
23. J. Przybyło, Distant total irregularity strength of graphs via random vertex ordering, *Discrete Math.* 341(4) (2018) 1098–1102; doi: 10.1016/j.disc.2017.10.028
24. J. Przybyło, Distant set distinguishing edge colourings of graphs, *European J. Combin.* 69 (2018) 185–199; doi: 10.1016/j.ejc.2017.11.001
25. M. Horňák, J. Przybyło, M. Woźniak, A note on a directed version of the 1-2-3 Conjecture, *Discrete Appl. Math.* 236 (2018) 472–476; doi: 10.1016/j.dam.2017.11.016
26. S. Cichacz, D. Fronček, I. Singgih, Vertex magic total labelings of 2-regular graphs, *Discrete Math.* 340 (2017) 3117–3124; doi: 10.1016/j.disc.2016.06.022
27. S. Cichacz, On zero sum-partition of Abelian groups into three sets and group distance magic labeling, *Ars Math. Contemp.* 13(2) (2017) 417–425; doi: 10.26493/1855-3974.1054.fcd
28. A. Gorzkowska, R. Kalinowski, M. Piłśniak, The distinguishing index of the Cartesian product of finite graphs, *Ars Math. Contemp.* 12 (2017) 77–87; doi: 10.26493/1855-3974.909.0e1
29. A. Gorzkowska, M. Piłśniak, Precise bounds for the distinguishing index of the Cartesian product, *Theoret. Comput. Sci.* 687 (2017) 62–69; doi: 10.1016/j.tcs.2017.05.004
30. R. Kalinowski, Dense on-line arbitrarily partitionable graphs, *Discrete Appl. Math.* 226 (2017) 71–77; doi: 10.1016/j.dam.2017.04.006
31. W. Imrich, R. Kalinowski, M. Piłśniak, M. Shekarriz, Bounds for distinguishing invariants of infinite graphs, *Electron. J. Combin.* 24(3) (2017) P3.6; doi: 10.37236/6362
32. R. Kalinowski, M. Piłśniak, M. Woźniak, A note on breaking small automorphisms in graphs, *Discrete Appl. Math.* 232 (2017) 221–225; doi: 10.1016/j.dam.2017.07.034
33. W. Imrich, R. Kalinowski, M. Piłśniak, M. Shekarriz, Bounds for Distinguishing Invariants of Infinite Graphs, *Electron. J. Combin.* 24(3) (2017) P3.6; doi: 10.37236/6362
34. O. Baudon, M. Shenhaji, M. Piłśniak, J. Przybyło, E. Sopena, M. Woźniak, Equitable neighbour-sum-distinguishing edge and total colourings, *Discrete Appl. Math.* 222, (2017), 40–53; doi: 10.1016/j.dam.2017.01.031
35. M. Piłśniak, Improving upper bounds for the distinguishing index, *Ars Math. Contemp.* 13 (2017) 259–274; doi: 10.26493/1855-3974.981.ff0
36. M. Piłśniak, Edge motion and the distinguishing index, *Theoret. Comput. Sci.* 678 (2017) 56–62; doi: 10.1016/j.tcs.2017.02.032

37. I. Broere, M. Pilśniak, The distinguishing index of the Cartesian product of countable graphs, *Ars Math. Contemp.* 13 (2017) 15–21; doi: 10.26493/1855-3974.792.403
38. O. Baudon, J. Przybyło, M. Senhaji, E. Sidorowicz, É. Sopena, M. Woźniak, The neighbour-sum-distinguishing edge-colouring game, *Discrete Math.* 340(7) (2017) 1564–1572; doi: 10.1016/j.disc.2017.02.019
39. J. Przybyło, A. Raspaud, M. Woźniak, On weight choosabilities of graphs with bounded maximum average degree, *Discrete Appl. Math.* 217(3) (2017) 663–672; doi: 10.1016/j.dam.2016.09.037
40. M. Bonamy, J. Przybyło, On the neighbor sum distinguishing index of planar graphs, *J. Graph Theory* 85(3) (2017) 669–690; doi: 10.1002/jgt.22098
41. E. Barme, J. Bensmail, J. Przybyło, M. Woźniak, On a directed variation of the 1-2-3 and 1-2 conjectures, *Discrete Appl. Math.* 217(2) (2017) 123–131; doi: 10.1016/j.dam.2016.08.013
42. J. Przybyło, Distant sum distinguishing index of graphs, *Discrete Math.* 340(10) (2017) 2402–2407; doi: 10.1016/j.disc.2017.05.009
43. J. Przybyło, Distant irregularity strength of graphs with bounded minimum degree, *Discrete Appl. Math.* 233 (2017) 159–165; doi: 10.1016/j.dam.2017.08.011
44. S. Loeb, J. Przybyło, Y. Tang, Asymptotically optimal neighbor sum distinguishing total colorings of graphs, *Discrete Math.* 340(2) (2017) 58–62; doi: 10.1016/j.disc.2016.08.012