

### Professor Dr. Dieter Rautenbach

#### Theses

1. D. Rautenbach, *Die domatische Zahl und die lineare Waldzerlegungszahl von Blockkactusgraphen*, Diplomarbeit, RWTH Aachen, 1996.
2. D. Rautenbach, *Domination and Degree*, Dissertation, RWTH Aachen, Shaker Verlag Aachen, 1998.
3. D. Rautenbach, *Some Combinatorial Reconstruction Problems*, Habilitation, RWTH Aachen, Shaker Verlag Aachen, 2002.

#### Refereed Journal Articles

1. D. Rautenbach and L. Volkmann, Some structural results on linear arboricity, *Australas. J. Comb.* **17** (1998), 267 - 274.
2. D. Rautenbach and L. Volkmann, The domatic number of block-cactus graphs, *Discrete Math.* **187** (1998), 185 - 193
3. D. Rautenbach, Bounds on the weak domination number, *Australas. J. Comb.* **18** (1998), 245 - 251.
4. D. Rautenbach, The influence of special vertices on the strong domination, *Discrete Math.* **197/198** (1999), 683 - 690.
5. D. Rautenbach, A linear Vizing-like relation between the size and the domination number of a graph, *J. Graph Theory* **31** (1999), 297 - 302.
6. D. Rautenbach, On the difference between the upper irredundance, upper domination and independence number of a graph, *Discrete Math.* **203** (1999), 239 - 252.
7. D. Rautenbach, Bounds on the strong domination number, *Discrete Math.* **215** (2000), 201 - 212.
8. L. Dohmen, D. Rautenbach, and L. Volkmann, A note on  $\Gamma_\alpha(k)$ -perfect graphs, *Discrete Math.* **224** (2000), 265 - 271.
9. D. Rautenbach and V.E. Zverovich, Perfect graphs of strong and independent strong domination, *Discrete Math.* **226** (2001), 297 - 311.
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13. D. Rautenbach and B. Reed, The Erdős-Pósa property for odd cycles in highly connected graphs, *Combinatorica* **21** (2001), 267-278.

14. D. Rautenbach, Reconstructing finite sets of points in  $\mathbb{R}^n$  up to groups of isometries, *Eur. J. Comb.* **22** (2001), 1139-1147.
15. M. Fischermann, I. Gutman, A. Hoffmann, D. Rautenbach, D. Vidović, and L. Volkmann, Extremal chemical trees, *Z. Naturforschung* **57 a** (2002), 49-52.
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17. P. Dankelmann, D. Rautenbach, and L. Volkmann, Weighted Domination in triangle-free graphs, *Discrete Math.* **250** (2002), 233-239.
18. M. Fischermann, A. Hoffmann, D. Rautenbach, L. Székely, and L. Volkmann, Wiener Index versus maximum degree in trees, *Discrete Appl. Math.* **122** (2002), 127-137.
19. D. Rautenbach, A Note on Kelly's Lemma for infinite sets of integers, *Discrete Math.* **245** (2002), 279-282.
20. D. Rautenbach, Reconstructing infinite objects, *Discrete Math.* **250** (2002), 273-279.
21. D. Rautenbach, On a reconstruction problem of Harary and Manvel, *J. Comb. Theory, Ser. A* **99** (2002), 32-39.
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29. D. Rautenbach, Wagners Vermutung und das Graphen-Minoren Projekt, *Jahresberichts der Deutschen Mathematiker-Vereinigung* **104** (2002), 17-25.
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### Accepted Manuscripts

1. C.F. Bornstein, J.W.C. Pinto, D. Rautenbach, and J.L. Szwarcfiter, Constant Threshold Intersection Graphs of Orthodox Paths in Trees, to appear in *Electronic Notes in Discrete Mathematics*.
2. J.D. Alvarado, S. Dantas, and D. Rautenbach, Dominating Sets inducing Large Components in Maximal Outerplanar Graphs, to appear in *J. Graph Theory*.
3. L.D. Penso, D. Rautenbach, U.S. Souza, Graphs in which some and every maximum matching is uniquely restricted, to appear in *J. Graph Theory*.
4. J.D. Alvarado, S. Dantas, and D. Rautenbach, Relating 2-rainbow domination to weak Roman domination, to appear in *J. Comb. Math. Comb. Comput.*
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6. H. Bruhn and D. Rautenbach, Maximal determinants of combinatorial matrices, to appear in *Linear Algebra Appl.*
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11. C.F. Bornstein, J.W.C. Pinto, D. Rautenbach, and J.L. Szwarcfiter, Constant Threshold Intersection Graphs of Orthodox Paths in Trees, to appear in *Discrete Appl. Math.*

## Submitted Manuscripts

1. M.R. Cappelle, E.M.M. Coelho, H. Coelho, L.D. Penso, and D. Rautenbach, Identifying Codes in the Complementary Prism of Cycles.
2. C.V.G.C. Lima, D. Rautenbach, U.S. Souza, and J.L. Szwarcfiter, Eliminating All Odd Cycles by Removing a Matching.
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13. M. Fürst and D. Rautenbach, Some bounds on the uniquely restricted matching number.
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