

Bibliography

- [1] S. R. Arikati and C. Pandu Rangan. An efficient algorithm for finding a two-pair, and its applications. *Discrete Applied Mathematics*, 31:71–74, 1991.
- [2] F. Baader and T. Nipkow. *Term rewriting and all that*. Cambridge University Press, Cambridge, UK, 1998.
- [3] L. Babel and S. Olariu. On the separable-homogeneous decomposition of graphs. In *Graph-Theoretic Concepts in Computer Science: WG '97*, pages 25–27, Berlin, Germany, 1997. Springer-Verlag.
- [4] J. E. Beasley. An SST-based algorithm for the Steiner problem in graphs. Technical report, Department of Management Science, Imperial College, London, UK, 1985.
- [5] J. E. Beasley. OR-Library. <http://mscmga.ms.ic.ac.uk/info.html>, 1990.
- [6] M. E. Bertschi. Perfectly contractile graphs. *Journal of Combinatorial Theory, Series B*, 50:222–230, 1990.
- [7] D. Bienstock. On the complexity of testing for odd holes and odd induced paths. *Discrete Mathematics*, 90:85–92, 1991.
- [8] D. Brèlaz. New methods to color the vertices of a graph. *Communications of the ACM*, 22(4):251–256, 1979.

- [9] H. Buer and R. H. Möhring. A fast algorithm for the decomposition of graphs and posets. *Mathematics of Operations Research*, 8:170–184, 1984.
- [10] M. W. Carter, G. Laporte, and S. Y. Lee. Examination timetabling: Algorithmic strategies and applications. *Journal of the Operational Research Society*, 47:373–383, 1996.
- [11] P. Cheeseman, B. Kanefsky, and W. M. Taylor. Where the *really* hard problems are. In *Proceedings of the Twelfth International Joint Conference on Artificial Intelligence*, pages 331–337, Sydney, Australia, 1991. Morgan Kaufmann.
- [12] N. Christofides and J. Paixão. Algorithms for large scale set covering problems. *Annals of Operations Research*, 43:261–277, 1993.
- [13] A. Cournier and M. Habib. A new linear algorithm for modular decomposition. In *Trees in Algebra and Programming – CAAP '94*, pages 68–84, Berlin, Germany, 1994. Springer.
- [14] J. Culberson. A graph generator for various classes of k -colorable graphs. <http://web.cs.ualberta.ca/~joe/Coloring/Generators/generate.html>, 1995.
- [15] W. H. Cunningham and J. Edmonds. A combinatorial decomposition theory. *Canadian Journal of Mathematics*, 32:734–765, 1980.
- [16] E. Dahlhaus. Efficient parallel modular decomposition. In *Graph-Theoretic Concepts in Computer Science: WG '95*, pages 290–302, Berlin, Germany, 1995. Springer-Verlag.
- [17] E. Dahlhaus, J. Gustedt, and R. M. McConnell. Efficient and practical modular decomposition. In *Proceedings of the Eighth Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 26–35, New Orleans, Louisiana, USA, 1997. ACM.
- [18] R. Diestel. Simplicial decompositions of graphs: a survey of applications. *Discrete Mathematics*, 75:121–144, 1989.

- [19] DIMACS. The Second DIMACS Implementation Challenge. <ftp://dimacs.rutgers.edu/pub/challenge>, 1993.
- [20] C. W. Duin. Preprocessing the Steiner problem in graphs. In *Advances in Steiner Trees*, pages 175–233. Kluwer, 2000.
- [21] C. W. Duin and A. Volgenant. Reduction tests for the Steiner problem in graphs. *Networks*, 19:549–567, 1989.
- [22] A. Ehrenfeucht, H. N. Gabow, R. M. McConnell, and S. J. Sullivan. An $O(n^2)$ divide-and-conquer algorithm for the prime tree decomposition of two-structures and modular decomposition of graphs. *Journal of Algorithms*, 16(2):283–294, 1994.
- [23] P. Erdős and J. Spencer. *Probabilistic Methods in Combinatorics*. Academic Press, New York, USA, 1974.
- [24] H. Everett, C. M. H. de Figueiredo, C. Linhares-Sales, F. Maffray, O. Porto, and B. A. Reed. Path parity and perfection. *Discrete Mathematics*, 165/166:233–252, 1997.
- [25] J. Fonlupt and J. P. Uhry. Transformations which preserve perfectness and h -perfectness of graphs. *Annals of Discrete Mathematics*, 16:83–95, 1982.
- [26] T. Gallai. Transitiv orientierbare Graphen. *Acta Mathematica Academiae Scientiarum Hungaricae*, 18:25–66, 1967.
- [27] M. R. Garey and D. S. Johnson. *Computers and Intractability: a Guide to the Theory of NP-completeness*. W. H. Freeman, San Francisco, CA, USA, 1979.
- [28] R. S. Garfinkel and G. L. Nemhauser. The set-partitioning problem: Set covering with equality constraints. *Operations Research*, 17:848–856, 1969.
- [29] F. Gavril. Algorithms on clique separable graphs. *Discrete Mathematics*, 19:159–165, 1977.

- [30] R. Gupta, M. L. Soffa, and D. Ombres. Efficient register allocation via coloring using clique separators. *ACM Transactions on Programming Languages and Systems*, 16:370–387, 1994.
- [31] M. Habib and M. C. Maurer. On the X-join decomposition for undirected graphs. *Discrete Applied Mathematics*, 1:201–207, 1979.
- [32] M. M. Halldórsson. Approximations via partitioning. Technical Report IS-RR-95-0003F, Japan Advanced Institute of Science and Technology, 1995.
- [33] R. Hayward, C. Hoàng, and F. Maffray. Optimizing weakly triangulated graphs. *Graphs and Combinatorics*, 5:339–349, 1989.
- [34] A. Hertz. A fast algorithm for colouring Meyniel graphs. *Journal of Combinatorial Theory Series B*, 50:231–240, 1990.
- [35] F. K. Hwang, D. S. Richards, and P. Winter. *The Steiner Tree Problem*. North-Holland, Amsterdam, the Netherlands, 1992.
- [36] A. Iwainsky, E. Canuto, O. Taraszow, and A. Villa. Network decomposition for the optimization of connection structures. *Networks*, 16:205–235, 1986.
- [37] L. O. James, R. G. Stanton, and D. D. Cowan. Graph decomposition for undirected graphs. In *Proceedings of Third Southeastern Conference on Combinatorics, Graph Theory and Computing*, pages 281–290, Boca Raton, Florida, USA, 1972. Utilitas Mathematica.
- [38] B. Jamison and S. Olariu. p -components and the homogeneous decomposition of graphs. *SIAM Journal on Discrete Mathematics*, 8:448–463, 1995.
- [39] J. H. Kingston and N. P. Sheppard. On reductions for the Steiner problem in graphs. To appear in *Journal of Discrete Algorithms*.
- [40] J. H. Kingston and N. P. Sheppard. Self-reduction with an application to graph colouring. Submitted for publication.

- [41] J. H. Kingston and N. P. Sheppard. On reductions for the Steiner problem in graphs. In *Tenth Australasian Workshop on Combinatorial Algorithms*, pages 34–43, Perth, WA, Australia, 1999. Curtin University Press.
- [42] J. H. Kingston and N. P. Sheppard. On the hardness of computing maximum self-reduction sequences. *Discrete Mathematics*, 226:243–253, 2000.
- [43] L. B. Kovács. *Combinatorial Methods of Discrete Programming*. Akadémiai Kiadó, Budapest, Hungary, 1980.
- [44] H.-G. Leimer. Optimal decomposition by clique separators. *Discrete Mathematics*, 113:99–123, 1993.
- [45] C. E. Lemke, H. M. Salkin, and K. Spielberg. Set-covering by single-branch enumeration with linear programming subproblems. *Operations Research*, 19:998–1022, 1971.
- [46] S. Martello and P. Toth. A new algorithm for the 0-1 knapsack problem. *Management Science*, 34:633–644, 1988.
- [47] S. Martello and P. Toth. Lower bounds and reduction procedures for the bin packing problem. *Discrete Applied Mathematics*, 28:59–70, 1990.
- [48] R. M. McConnell and J. P. Spinrad. Linear-time modular decomposition and efficient transitive orientation of comparability graphs. In *Proceedings of the Fifth Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 536–545, New York, NY, USA, 1994. ACM.
- [49] R. H. Möhring. On the distribution of locally undecomposable relations and independence systems. *Methods of Operations Research*, 42:33–38, 1981.
- [50] R. H. Möhring and F. J. Radermacher. Substitution decomposition for discrete structures and connections with combinatorial optimization. *Annals of Discrete Mathematics*, 19:257–356, 1984.
- [51] J. H. Muller and J. Spinrad. Incremental modular decomposition. *Journal of the ACM*, 36:1–19, 1989.

- [52] M. H. A. Newman. On theories with a combinatorial definition of ‘equivalence’. *Annals of Mathematics*, 43(2):223–243, 1942.
- [53] F. Nicolai and T. Szymczak. Homogeneous sets and domination problems. In *Graph-Theoretic Concepts in Computer Science: WG '96*, pages 323–337, Cadenabbia, Italy, 1996. Springer-Verlag.
- [54] J. Peemöller. A correction to Brelaz’s modification of Brown’s coloring algorithm. *Communications of the ACM*, 26(8):595–597, 1983.
- [55] J. Spinrad and R. Sritharan. Algorithms for weakly triangulated graphs. *Discrete Applied Mathematics*, 59:181–191, 1995.
- [56] J. P. Spinrad. P_4 -trees and substitution decomposition. *Discrete Applied Mathematics*, 39:263–291, 1992.
- [57] R. E. Tarjan. Decomposition by clique separators. *Discrete Mathematics*, 55:221–232, 1985.
- [58] K. Wagner. Über eine Eigenschaft der ebene Komplexe. *Mathematische Annalen*, 114:570–590, 1937.
- [59] K. Wagner and R. Halin. Homomorphiebases von Graphenmengen. *Mathematische Annalen*, 147:126–142, 1962.
- [60] S. H. Whitesides. An algorithm for finding clique cut-sets. *Information Processing Letters*, 12:31–32, 1981.