

# Jan Arne Telle

## Curriculum Vitae

Department of Informatics  
University of Bergen  
5020 Bergen, Norway  
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### Personal Data

- Born May 15, 1962 in Bærum, Norway

### Education

- University of Oregon, Eugene, Oregon, 1988-94  
Doctor of Philosophy, Computer Science (June 1994)
- California State University, Long Beach, California, 1983-87  
Bachelor of Science, Computer Science and Engineering (and cand.scient)

### Academic Employment

- University of Bergen, Department of Informatics  
2000-, Professor  
1998-99, Associate Professor (1.amanuensis)  
1994-97, Temporary Assistant Professor or Postdoctoral Researcher
- Université Paris 7, LIAFA, Group for Algorithms and Combinatorics  
Summer 1999, Invited Professor
- Cornell University, Department of Computer Science  
1995-96, Instructor
- University of Oregon, Department of Computer and Information Sciences  
1992-94, Research Assistant - NSF grant CCR9213439  
1989-91, Research Assistant - NSF grant MIP9108528  
1988-89, 1991-92 and Summer 93, Teaching Assistant and Instructor

### Professional Employment

- Central Bureau of Statistics of Norway - SSB  
1987-88, Lead Programmer at Group for Computer-based Research

## Research Grants

- Improving polynomial-time algorithms, Sather Grant UC Berkeley, 2013-14, joint project leader with Christos Papadimitriou
- PARALGO - Parameterized Algorithms, RCN (Research Council of Norway) FRINAT 185824/V30, 2008-2013, project leader
- PARCOM - Parameterized Complexity and Graph Algorithms, RCN FRIPRO, 2002-2005, project leader
- General Support for the Algorithms Research Group, RCN FRIPRO, 2004, project leader
- Exploiting Structure to Cope with Hard Problems, RCN FRITEK, 2010-2015, one of three PIs
- Minimal separators and triangulations in graphs, RCN FRINAT 2005-2009, one of two PIs
- Spectrum management in static and dynamic networks, RCN IKT-2010, 2004-2007, one of four PIs.
- Project leader of two RCN Aurora France-Norway Collaboration Research Projects
- Design, Analysis and Implementation of Algorithms for Tree-like Graphs, RCN 1995-97, project leader, personal postdoctoral grant
- Personal Doctoral Studies Research Fellowship from NTNF (Norwegian Technical and Natural Sciences Foundation), 1990-1992, personal PhD grant

## Committee/Advisory Boards

- Steering Committees/Prize Committees  
SWAT (Scandinavian Symposium and Workshops on Algorithm Theory), Steering committee member (1 of 5) since 2000  
DIMATIA (Center for Discrete Mathematics, Theoretical Computer Science and Applications), Advisory Board member (1 of 20) since 2004  
EATCS-IPEC (European Association of Theoretical Computer Science) Nerode Prize Committee member (1 of 3) 2013-2016  
Chair EATCS-IPEC Nerode Prize Committee 2015-16
- Program Committees  
SWAT 2000 (7th Biennial Scandinavian Workshop on Algorithm Theory)  
MFCS 2004 (29th International Symposium on Mathematical Foundations of Computer Science)

SWAT 2004 (9th Biennial Scandinavian Workshop on Algorithm Theory)  
IWPEC 2004 (1st International Workshop on Parameterized and Exact Computation)  
FCT 2005 (15th Symposium on Fundamentals of Computation Theory)  
AICCSA 2006 (4th ACS/IEEE International Conference on Computer Systems and Applications)  
IWPEC 2006 (2nd International Workshop on Parameterized and Exact Computation)  
ICALP 2007 (34th International Colloquium on Automata, Languages and Programming)  
WG 2008 (34th International Workshop on Graph Theoretical Concepts in Computer Science)  
IWOCA 2009 (20th International Workshop on Combinatorial Algorithms)  
Chair FCT 2011 (18th Biennial International Symposium on Fundamentals of Computation Theory)  
WADS 2011 (12th Biennial Workshop on Algorithms and Data Structures (now Symposium))  
ISAAC 2013 (23rd International Symposium on Algorithm and Computation)  
EUROCOMB 2013 (European Conference on Combinatorics, Graph Theory and Applications)  
IPEC 2014 (9th International Symposium on Parameterized and Exact Computation)  
Eurocomb 2015 (European Conference on Combinatorics, Graph Theory and Applications)  
IPEC 2016 (11th International Symposium on Parameterized and Exact Computation)  
WG 2017 (43rd International Workshop on Graph Theoretical Concepts in Computer Science)  
Eurocomb 2017 (European Conference on Combinatorics, Graph Theory and Applications)

- Organizing Committees

Chair SWAT 2000, July 5-7 2000, Bergen, Norway  
ALGO 2004, September 14-17 2004, Bergen, Norway  
WG 2006, June 22-24 2006, Sotra, Norway  
Chair SWAT 2010, June 21-23 2010, Bergen, Norway  
Chair EUROCOMB 2015, August 31-September 4 2015, Bergen, Norway

- Doctoral and Habilitation Committees

University of Lund, Sweden, September 1998  
Charles University, Prague, Czech Republic, October 2000  
LIRMM, Montpellier, France, July 2006

Charles University, Prague, Czech Republic, January 2011  
University of Bergen, various committees since 2000

- Other commissions of trust

Chair of board NIO - Norsk informatikkolympiade, 2015-on  
Chair of Research Committee for Department of Informatics, University of Bergen, 2012-on  
National committee for promotion to Professor in Informatics in Norway, member (1 of 4) 2006-2010  
Chair of committee for Alan Turing centennial celebration at UiB, 2012  
Committee for hiring new leader of Informatics Department, UiB (1 of 5 members), 2010

## Teaching and Advising Experience

- Instructor

Theory of Social Networks, INFO207 Fall 2012 (developed new course), 2013, 14  
Algorithm Engineering, INF237 Spring 2009, 10, 12  
Discrete Structures, IM005 & MNF130 U.Bergen Spring 2003 (developed new course), 2004, 07, 11  
Advanced Algorithms, I238 & INF334 U.Bergen Fall 2002, 03  
Graph Homomorphisms, INF339 U.Bergen Spring 2006  
Social Networks, INF339 U.Bergen Fall 2010  
Graph Width Parameters, INF339 U.Bergen Spring 2015  
Algorithms, Data Structures and Programming, I120 U.Bergen Fall 2000, 01  
Models of Computation, I210 U.Bergen Fall 1999 (developed new course)  
Complexity Theory, I235 U.Bergen Spring 98, 99, 01, 02, 08, 13, 14, 16  
Algorithms, I234 U.Bergen Fall 97, 98, 05, 06, 07, 14, 15 and CS315 U.Oregon 93  
Intro. to Computer Programming, CS100 Cornell U.(co-instr.) Spring 96  
Files and Databases, FD207 HiB - Bergen Engineering College Spring 95

- Advisor

Sigve Hortemo Sæther (PhD 9/2015) Choice of parameter for DP-based FPT algorithms: four case studies  
Martin Vatshelle (PhD 9/2012) New width parameters of graphs  
Christian Sloper (PhD 1/2006) Techniques in parameterized algorithm design  
Petter Kristiansen (PhD 2/2003) New results on the domination chain, graph homomorphisms, alliances and self-stabilizing algorithms

Cand.Scient./Master (completed):

Christian Egeland, Algorithms for linearly ordered boolean formulas

Johan Rusvik, Localizing cell towers from crowdsourced measurements  
Erlend Eindride Fasmer, Community detection in social networks  
Magnar Myrtveit, Scaling the scales - a suggested improvement to IBM's intelligent recommendation algorithm  
Eivind Magnus Hvidevold, Heuristics for boolean-width decomposition of graphs  
Robert Sasak, Comparing 17 graph parameters  
Martin Vatshelle, Naturlige nettverk  
Elisabeth Moldeklev, Generating tree-like graphs  
Thomas Edvinsen, Sequence alignment  
Øyvind Neuman, Drawing a portion of the internet world wide web  
Gunnar Horneland, Implementation of graph algorithms in LEDA  
Kjell Wilhelm Kongsvik, Testing and evaluating PRO - the parallel resource optimal computation model  
Christian Sloper, Parameterized complexity and method of test sets  
Ole Aleksander Mæhle, The treewidth of Java programs  
Knut Erstad, L-systems, twining plants, Lisp  
Sidsel Horvei, Søkemotorer og duplikat-detektering  
Bjørn Hiim, Implementing and testing of algorithms for tree-like graphs

## Awards

- Best Paper Award. 14th International Symposium on Graph Drawing, GD 2006, Universitet Karlsruhe, Germany, September 18-20th, 2006. On a paper co-authored with David Wood.

## Bibliography of Publications

As of October 2015 Google Scholar lists about 2000 citations to my papers, with an h-index of 27. In my field the ordering of authors is usually alphabetical. My most cited paper (230 citations) breaches this rule, with me being the first of two authors. On my second most cited paper I am the single author. Each year since 2005 I have a yearly citation count of at least 100. My most cited recent paper is 'Boolean-width of graphs' in TCS 2011 with 44 citations + 23 citations to the IPEC 2009 conference version. (all as of Oct 2015.)

### Journal Publications

1. L.Jaffke, H.Bodlaender, P.Heggernes, J.A.Telle, Definability Equals Recognizability for k-Outerplanar Graphs and l-Chordal Partial k-Trees, European Journal of Combinatorics
2. S.Sæther, J.A.Telle, Between treewidth and clique-width, Algorithmica 2016
3. J.Kratochvil, J.A.Telle, M.Tesar, Computational complexity of covering three-vertex multigraphs, Theoretical Computer Science 2016

4. S.Sæther, J.A.Telle, M.Vatshelle, Solving MAXSAT and # SAT by dynamic programming, *Journal of Artificial Intelligence Research*, vol 54, 59-82, 2015
5. Henning Bruhn, Pierre Charbit, Oliver Schaudt, Jan Arne Telle, The graph formulation of the union-closed sets conjecture, *European Journal of Combinatorics* 2014 ;Volume 43. p. 210-219
6. B-M.Bui-Xuan, J.A.Telle and M.Vatshelle, Fast dynamic programming for locally checkable vertex subset and vertex partitioning problems *Theoretical Computer Science*, 511: 66-76 (2013)
7. B.M.Bui-Xuan, O.Suchy, J.A.Telle, M.Vatshelle, Feedback Vertex Set on Graphs of low Cliquewidth, *European Journal of Combinatorics* 34(3): 666-679 (2013)
8. D.Meister and J.A.Telle, Chordal digraphs, *Theoretical Computer Science* 463: 73-83 (2012)
9. B.M.Bui-Xuan, J.A.Telle, M.Vatshelle, Boolean-width of graphs, *Theoretical Computer Science* 412(39): 5187-5204 (2011)
10. F.Fomin, J.Kratochvil, D.Lokshtanov, F.Mancini and J.A. Telle, On the Complexity of Reconstructing H-free Graphs from their Star Systems, *Journal of Graph Theory* 68(2): 113-124 (2011)
11. B-M.Bui-Xuan, J.A.Telle and M.Vatshelle, H-join decomposable graphs and algorithms with runtime single exponential in rankwidth, *Discrete Applied Mathematics* 2010 ;Volume 158.(7) p. 809-819
12. D.Meister, J.A.Telle and M.Vatshelle, Recognizing digraphs of Kelly-width 2, *Discrete Applied Mathematics* 2010 ;Volume 158.(7) p. 741-746
13. Y.Villanger, P.Heggernes, C.Paul and J.A.Telle, Interval Completion is Fixed Parameter Tractable, *SIAM Journal on Computing* Volume 38.(5) p. 2007-2020. 2009
14. C.Paul and J.A.Telle, Edge-maximal graphs of branchwidth k: the k-branches, *Discrete Mathematics* Volume 309.(6) p. 1467-1475. 2009
15. F.Dorn and J.A.Telle, Seminice tree-decompositions: the best of branchwidth, treewidth and pathwidth with one algorithm, *Discrete Applied Mathematics* Volume 157.(12) p. 2737-2746. 2009
16. C.Paul and J.A.Telle, Branchwidth of chordal graphs, *Discrete Applied Mathematics* Volume 157.(12) p. 2718-2725. 2009
17. J.Fiala, D.Paulusma and J.A.Telle, Locally constrained graph homomorphisms and equitable partitions, to appear *European Journal of Combinatorics* Volume 29.(4) p. 850-880, April 2008

18. C.Sloper and J.A.Telle, An overview of techniques for designing parameterized algorithms, *The Computer Journal* vol 51, nr 1, 2008, 102-121
19. D.Wood and J.A.Telle, Planar decompositions and the crossing number of graphs with an excluded minor, *New York Journal of Mathematics* vol 13, 2007, 117-146
20. A.Gebremedhin, M.Essaidi, I.Guerrin, J.Gustedt and J.A.Telle, PRO: A Model for the Design and Analysis of Efficient and Scalable Parallel Algorithms, *Nordic Journal of Computing* vol 13-4, 2006 (22 pages)
21. P.Heggernes, J.A.Telle and Y.Villanger, Computing Minimal Triangulations in  $O(n^\alpha \log n) = o(n^{2.376})$  Time, *SIAM J. Discr Math* 19-4:900-913, 2005
22. J.A.Telle, Tree-decompositions of small pathwidth, *Discrete Applied Mathematics* 145(2), 210-218, 2005
23. H.Bodlaender, J.A.Telle, Space-efficient construction variants of dynamic programming, *Nordic Journal of Computing* 11, 374-385, 2004
24. F.Fomin, P.Heggernes, J.A.Telle, Graph searching, elimination trees, and a generalization of bandwidth, *Algorithmica* 41-2, 73-87, 2004
25. S.M.Hedetniemi, S.T.Hedetniemi, A.McRae, D.Parks and J.A.Telle, Iterated coloring, *Discrete Mathematics*, Volume 278, Issues 1-3, 6 March 2004, Pages 81-108
26. J.Fiala, P.Heggernes, P.Kristiansen, J.A.Telle, Generalized H-coloring and H-covering of Trees, *Nordic Journal of Computing* 10(3), 206-224, 2003
27. M.Halldorsson, G.Korsatz, A.Proskurowski, R.Salman, H.Shachnai and J.A.Telle, Multi-coloring Trees, *Information and computation* 180 (2003), 113-129, 2003.
28. A.Gebremedhin, I.Guerrin, J.Gustedt and J.A.Telle, Graph coloring on a coarse grained multiprocessor, *Discrete Applied Mathematics* Vol 131/1, pp 179-198, 2003.
29. J.Blair, P.Heggernes and J.A.Telle, A practical algorithm for making filled graphs minimal, *Theoretical Computer Science* vol. 250, pp. 125-141, 2001.
30. M.Halldorsson, J.Kratochvil and J.A.Telle, Mod-2 independence and domination in graphs, *International Journal of Foundations of Computer Science* Vol. 11, No. 3, 2000.
31. B.Aspvall, A.Proskurowski and J.A.Telle, Memory requirements for table computations in partial k-tree algorithms, *Algorithmica* Vol. 27, Number 3, 2000, 382-394.

32. M.Halldorsson, J.Kratochvil and J.A Telle, Independent sets with domination constraints, *Discrete Applied Mathematics* 99 (1-3) 39-54, 1999.
33. A.Proskurowski and J.A.Telle, Classes of graphs with restricted interval models, *Discrete Mathematics and Theoretical Computer Science* 4 (1999), 135-144 (an electronic journal at <http://dmtcs.loria.fr>).
34. J.Kratochvil, A.Proskurowski and J.A.Telle, Complexity of graph covering problems, *Nordic Journal of Computing* 5 (1998), 173-195.
35. P.Heggernes and J.A.Telle, Partitioning Graphs into Generalized Dominating Sets, *Nordic Journal of Computing* 5 (1998), 128-142.
36. J.A.Telle and A.Proskurowski, Algorithms for Vertex Partitioning Problems on Partial  $k$ -Trees, *SIAM Journal on Discrete Mathematics* Vol. 10, No. 4, pp. 529-550, November 1997.
37. J.Kratochvil, A.Proskurowski and J.A.Telle, Covering regular graphs, *Journal of Combinatorial Theory - Series B* vol.71, No.1 (1997) 1-16.
38. V.Lo, S.Rajopadhye, J.A.Telle and X.Zhong. Parallel divide-and-conquer on meshes, *IEEE Transactions on Parallel and Distributed Systems* vol.7, No. 10, October 1996, 1049-1059.
39. J.A.Telle, Complexity of domination-type problems in graphs, *Nordic Journal of Computing* 1 (1994) 157-171.
40. J.A.Telle and A.Proskurowski, Efficient sets in partial  $k$ -trees, *Discrete Applied Mathematics* 44 (1993) 109-117.
41. V.Lo, S.Rajopadhye, S.Gupta, D.Keldsen, M.Mohamed, B.Nitzberg, J.A.Telle and X.Zhong. OREGAMI: Tools for mapping parallel computations to parallel architectures, *International Journal of Parallel Programming*, Vol.20, No. 3, June 1991, 237-270.

#### Editor of Books

42. Olaf Owe, Martin Steffen, Jan Arne Telle (editors), Fundamentals of Computation Theory, Proceedings 18th International Symposium, FCT 2011, Oslo, Norway, August 22-25, 2011. Lecture Notes in Computer Science 6914, Springer 2011
43. Jaroslav Nesetril, Oriol Serra, Jan Arne Telle (editors), European Conference on Combinatorics, Graph Theory and Applications, Proceedings EURO-COMB 2015, Bergen, Norway, August 31-September 4, 2015. Electronic Notes in Discrete Mathematics



## Conference Publications

44. D.Y.Kang, O.Kwon, T.Strmme, J.A.Telle, A width parameter useful for chordal and co-comparability graphs, Proceedings WALCOM 2017, LIPICS
45. S.Gaspers, C.Papadimitriou, S.Sæther, J.A.Telle, On satisfiability problems with a linear structure, Proceedings IPEC 2016, LNCS
46. J.Jeong, S.Sæther, J.A.Telle, Max-matching-width: new characterizations and a fast algorithm for dominating set, Proceedings IPEC 2015, LNCS
47. H.Bodlaender, P.Heggernes, J.A.Telle, Recognizability equals definability for graphs of bounded treewidth and bounded chordality, Proceedings Eurocomb 2015
48. J.Kratochvil, J.A.Telle, M.Tesar, Computational complexity of covering three-vertex multigraphs, Proceedings MFCS 2014, LNCS 8653, 493-504
49. S.Sæther, J.A.Telle, M.Vatshelle, Solving MAXSAT and #SAT on structured CNF formulas, Proceedings SAT 2014
50. S.Sæther, J.A.Telle, Between treewidth and clique-width, Proceedings WG 2014
51. Yuri Rabinovich, Jan Arne Telle, Martin Vatshelle, Upper bounds on boolean-width with applications in exact algorithms, Proceedings IPEC 2013
52. Henning Bruhn, Pierre Charbit, Jan Arne Telle, The graph formulation of the union-closed sets conjecture, Proceedings Eurocomb 2013
53. J.A.Telle and Y.Villanger, Connecting Terminals and 2-Disjoint Connected Subgraphs, Proceedings WG 2013
54. J.A.Telle and Y.Villanger, FPT algorithms for domination in biclique-free graphs, *Proceedings ESA 2012*, LNCS, 7501, 802-812, 2012
55. J.A.Telle, in Festschrift 'Mike Fellows: Weaving the web of mathematics and adventure', The Multivariate Algorithmic Revolution and Beyond, LNCS, Volume 7370, 74-79, 2012
56. E.M.Hvidevold, S.Sharmin, J.A.Telle and M.Vatshelle, Finding good decompositions for dynamic programming on dense graphs, Proceedings IPEC 2011, LNCS
57. I.Adler, B-M Bui-Xuan, Y.Rabinovich, G.Renault, J.A.Telle and M.Vatshelle, On the boolean-width of a graph: structure and applications, *Proceedings WG 2010*, LNCS, Volume 6410. p. 159-170

58. P.Heggernes, D.Lokshtanov, J.Nederlof, C.Paul, and J.A.Telle, Generalized graph clustering: recognizing (p,q)-cluster graphs, *Proceedings WG 2010*, LNCS, Volume 6410. p. 171-183
59. B.M.Bui-Xuan, J.A.Telle, M.Vatshelle, Boolean-width of graphs, *Proceedings IWPEC 2009*, LNCS, 5917, pp. 6174, 2009
60. B.M.Bui-Xuan, J.A.Telle, M.Vatshelle, Feedback Vertex Set on Graphs of low Cliquewidth, *Proceedings IWOCA 2009*, LNCS, 5874, pp. 113124, 2009
61. D.Meister and J.A.Telle, Chordal digraphs, *Proceedings WG 2009*, LNCS, Volume 5911. p. 273-284
62. M.Fellows, D.Meister, R.Sritharan, F.Rosamond and J.A.Telle, Leaf powers and their properties: using the trees, *Proceedings ISAAC 2008*, LNCS, Volume 5369. p. 402-413
63. F.Fomin, J.Kratochvil, D.Lokshtanov, F.Mancini and J.A. Telle, On the Complexity of Reconstructing H-free Graphs from their Star Systems, *Proceedings LATIN 2008*, LNCS, Volume 4957. p. 194-205
64. D.Meister, J.A.Telle and M.Vatshelle, Characterization and recognition of graphs of bounded Kelly-width, *Proceedings WG 2007*, LNCS vol 4769, 270-279
65. P.Heggernes, C.Paul, J.A.Telle and Y.Villanger, Interval completion with few edges, *Proceedings STOC 2007*, 39th Annual ACM Symposium on Theory of Computing: Association for Computing Machinery (ACM) 2007. ISBN 978-1-59593-631-8. s. 374-381
66. D.Wood and J.A.Telle, Planar decompositions and the crossing number of graphs with an excluded minor, *Proceedings Graph Drawing 2006*, LNCS vol 4372.
67. C.Sloper and J.A.Telle, Towards a taxonomy of techniques for designing parameterized algorithms, *Proceedings IWPEC'06*, LNCS vol 4169
68. C.Paul, A Proskurowski and J.A.Telle, Generating graphs of bounded branchwidth, *Proceedings WG'06*, LNCS vol 4271
69. F.Dorn and J.A.Telle, Two birds with one stone: the best of branchwidth and treewidth in one algorithm, *Proceedings LATIN'06*, LNCS vol 3887
70. C.Paul and J.A.Telle, New tools and simpler algorithms for branchwidth, *Proceedings ESA'05, European Symposium on Algorithms*, LNCS 3669, 379-390

71. C.Paul and J.A.Telle, Edge-maximal graphs of branchwidth  $k$ , *Proceedings ICGT'05, International Conference on Graph Theory*, Electronic Notes in Discrete Mathematics vol 22, 363-368
72. J.Fiala, D.Paulusma and J.A.Telle, Matrix and graph orders derived from locally constrained graph homomorphisms, *Proceedings MFCS'05, 30th International Symposium on Mathematical Foundations of Computer Science*, LNCS 3618, 340-351
73. J.Fiala, D.Paulusma and J.A.Telle, Algorithms for comparability of matrices in partial orders imposed by graph homomorphisms, *Proceedings WG'05 - 31st Workshop on Graph Theoretic Concepts in Computer Science*, LNCS 3787, 215-226
74. P.Heggernes, J.A.Telle and Y.Villanger, Computing Minimal Fill in  $O(n^\alpha \log n) = o(n^{2.376})$  Time, to appear *Proceedings SODA 2005 - 16th ACM-SIAM Symposium on Discrete Algorithms*, 907-916
75. M. Fellows, P. Heggernes, F. Rosamond, C. Sloper, and J. A. Telle, Finding  $k$  disjoint triangles in a graph, *Proceedings WG'04 - 30th Workshop on Graph Theoretic Concepts in Computer Science*, Springer Verlag, Lecture Notes in Computer Science vol 3353, 235-244
76. J.Gustedt and J.A.Telle, A work-optimal coarse-grained PRAM algorithm for Lexicographically First Maximal Independent Set, *Proceedings ICTCS 2003, Eighth Italian Conference on Theoretical Computer Science*, University Center Bertinoro, Italy, 13-15 October 2003, Springer Verlag, Lecture Notes in Computer Science vol 2841, 125-136
77. M.Habib, C.Paul and J.A.Telle, A linear-time algorithm for recognition of catval graphs, *Proceedings Eurocomb 2003*
78. F.Fomin, P.Heggernes, J.A.Telle, Graph searching, elimination trees, and a generalization of bandwidth, *Proceedings FCT 2003 - 14th International Symposium on Fundamentals of Computation Theory*, August 12-15, 2003, Malm, Sweden, Springer Verlag, Lecture Notes in Computer Science, vol 2751, pp 73-85.
79. J.Fiala, P.Heggernes, P.Kristiansen, J.A.Telle, Generalized H-coloring and H-covering of Trees, *Proceedings WG'02 - 28th International Workshop on Graph-Theoretic Concepts in Computer Science*, Cesky Krumlov, Czech Republic, June 13-15 2002, Springer Verlag, Lecture Notes in Computer Science, vol 2573, pp 198-210

80. A.Gebremedhin, I.Guerrin, J.Gustedt and J.A.Telle, PRO: A model for Parallel Resource-Optimal computation, *Proceedings HPCS'2002 - The 16th Annual International Symposium on High Performance Computing Systems and Applications*, IEEE, Moncton, NB, Canada, June 17-19, 2002.
81. J.Gustedt, O.Mæhle and J.A.Telle, The Treewidth of Java Programs, *Proceedings ALLENEX'02- 4th Workshop on Algorithm Engineering and Experiments*, San Francisco, January 4-5, 2002, Springer Verlag, Lecture Notes in Computer Science, vol 2409.
82. P.Kristiansen and J.A.Telle, Generalized H-coloring of graphs, *Proceedings ISAAC'00 - 7th Annual International Symposium on Algorithms And Computation*, Taipei, Taiwan, December 18-20 2000, Springer Verlag, Lecture Notes in Computer Science, vol 1969, pp ?-?.
83. A.Gebremedhin, I.Guerrin, J.Gustedt and J.A.Telle, Graph coloring on a coarse grained multiprocessor, *Proceedings WG'00 - 26th International Workshop on Graph-Theoretic Concepts in Computer Science*, Konstanz, Germany, June 15-17 2000, Springer Verlag, Lecture Notes in Computer Science, vol 1928, pp 184-195.
84. M.Halldorsson, J.Kratochvil and J.A.Telle, Mod-2 independence and domination in graphs, *Proceedings WG'99 - 25th International Workshop on Graph-Theoretic Concepts in Computer Science*, Ascona, Switzerland, June 17-19, 1999, Springer Verlag, Lecture Notes in Computer Science vol 1665, pp 101-109.
85. M.Halldorsson, G.Korsatz, A.Proskurowski, R.Salman, H.Shachnai and J.A.Telle, Multi-coloring Trees, *Proceedings COCOON'99 - Fifth Annual International Computing and Combinatorics Conference*, July 26-28 1999, Tokyo, Japan, Springer Verlag, Lecture Notes in Computer Science vol 1627, pp. 271-280.
86. A.Proskurowski and J.A.Telle, From bandwidth  $k$  to pathwidth  $k$ , *Proceedings ICTCS'98 - 5th Italian Conference on Theoretical Computer Science*, Prato, Italy, November 9-11 1998, World Scientific Publishing, pp. 90-101.
87. B.Aspvall, A.Proskurowski and J.A.Telle, Memory requirements for table computations in partial  $k$ -tree algorithms, *Proceedings SWAT'98 - 6th Scandinavian Workshop on Algorithm Theory*, Stockholm, Sweden, July 1998, Springer Verlag, Lecture Notes in Computer Science vol. 1432, pp. 222-233.
88. M.Halldorsson, J.Kratochvil and J.A Telle, Independent sets with domination constraints, *Proceedings ICALP'98 - 25th International Colloquium on Automata, Languages and Programming*, Aalborg, Denmark, July 13-17 1998, Springer Verlag, Lecture Notes in Computer Science vol. 1443, pp. 176-187.

89. H.Bodlaender, J.Gustedt and J.A.Telle, Linear-time register allocation for a fixed number of registers, *Proceedings SODA'98*, pp. 574-583, *Ninth Annual ACM-SIAM Symposium on Discrete Algorithms*, San Francisco January 25-27 1998.
90. J.Kratochvíl, A.Proskurowski and J.A.Telle, Complexity of colored graph covers I. Colored directed multigraphs, *Proceedings WG'97 - 23rd International Workshop on Graph-Theoretic Concepts in Computer Science*, Berlin June 18-20, Springer Verlag, Lecture Notes in Computer Science Vol. 1335, pp. 242-257.
91. M.R.Henzinger and J.A.Telle, Faster algorithms for the nonemptiness of Streett automata and for communication protocol pruning, *Proceedings SWAT'96 - Fifth Scandinavian Workshop on Algorithm Theory*, Springer Verlag, Lecture Notes in Computer Science vol.1097 (1996) 16-27.
92. J.Blair, P.Heggernes and J.A.Telle, Making an arbitrary filled graph minimal by removing fill edges, *Proceedings SWAT'96 - Fifth Scandinavian Workshop on Algorithm Theory*, Springer Verlag, Lecture Notes in Computer Science vol.1097 (1996) 173-184.
93. P.Heggernes and J.A.Telle, Partitioning Graphs into Generalized Dominating Sets, *Proceedings SCCC'95 - XV International Conference of the Chilean Computer Society*, 1995, pp 241-252. (copyright SCCC, Santiago, 1995.)
94. J.Kratochvíl, A.Proskurowski and J.A.Telle, Complexity of Graph Covering Problems, *Proceedings WG'94 - 20th International Workshop on Graph-Theoretical Concepts in Computer Science*, Springer-Verlag, Lecture Notes in Computer Science vol.903, 1995, pp 93-105.
95. J.A.Telle and A.Proskurowski, Practical algorithms on partial  $k$ -trees with an application to domination-like problems, *Proceedings WADS'93 - Third Workshop on Algorithms and Data Structures*, Springer Verlag, Lecture Notes in Computer Science vol.709 (1993) 610-621.
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