

Jan Arne Telle

Curriculum Vitae

Department of Informatics
University of Bergen
5020 Bergen, Norway
(47) 55584036, facsimile (47) 55584199
e-mail: telle@ii.uib.no

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

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, NFR (Research Council of Norway) FRINAT 185824/V30, 2008-2013, project leader
- PARCOM - Parameterized Complexity and Graph Algorithms, NFR FRIPRO, 2002-2005, project leader
- General Support for the Algorithms Research Group at UiB, NFR FRIPRO, 2004, project leader
- Exploiting Structure to Cope with Hard Problems, NFR FRITEK, 2010-2015, one of three PIs
- Minimal separators and triangulations in graphs, NFR FRINAT 2005-2009, one of two PIs
- Spectrum management in static and dynamic networks, NFR IKT-2010, 2004-2007, one of four PIs.
- Project leader of two NFR Aurora France-Norway Collaboration Research Projects
- Design, Analysis and Implementation of Algorithms for Tree-like Graphs, NFR 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

Academic Service

- Steering Committees/Prize Committees
Steering committee member (1 of 9) IPEC (International Symposium on Parameterized and Exact Computation) 2018-2021
Committee member (1 of 3) EATCS (European Association of Theoretical Computer Science) Nerode Prize 2013-2016
Chair EATCS Nerode Prize Committee 2015-16
Advisory Board member (1 of 20) DIMATIA (Center for Discrete Mathematics, Theoretical Computer Science and Applications) since 2004
Steering committee member (1 of 5) SWAT (Scandinavian Symposium and Workshops on Algorithm Theory) since 2000
- Various commissions of trust
Member of board (fakultetsstyret) at Faculty of Mathematics and Natural Sciences, University of Bergen, 2017-2021
Chair of board Norwegian Olympiad in Informatics (Norsk informatikkolympiade - NIO), 2015-on
Chair of Research Committee for Department of Informatics, University of Bergen, 2012-2016
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

- Program Committees (typically 15-20 members)
 IPEC 2019, chair (14th International Symposium on Parameterized and Exact Computation)
 Eurocomb 2017 (European Conference on Combinatorics, Graph Theory and Applications)
 WG 2017 (43rd International Workshop on Graph Theoretical Concepts in Computer Science)
 IPEC 2016 (11th International Symposium on Parameterized and Exact Computation)
 Eurocomb 2015 (European Conference on Combinatorics, Graph Theory and Applications)
 IPEC 2014 (9th International Symposium on Parameterized and Exact Computation)
 EUROCOMB 2013 (European Conference on Combinatorics, Graph Theory and Applications)
 ISAAC 2013 (23rd International Symposium on Algorithm and Computation)
 WADS 2011 (12th Biennial Workshop on Algorithms and Data Structures (now Symposium))
 FCT 2011, chair (18th Biennial International Symposium on Fundamentals of Computation Theory)
 IWOCA 2009 (20th International Workshop on Combinatorial Algorithms)
 WG 2008 (34th International Workshop on Graph Theoretical Concepts in Computer Science)
 ICALP 2007 (34th International Colloquium on Automata, Languages and Programming)
 IWPEC 2006 (2nd International Workshop on Parameterized and Exact Computation)
 AICCSA 2006 (4th ACS/IEEE International Conference on Computer Systems and Applications)
 FCT 2005 (15th Symposium on Fundamentals of Computation Theory)
 IWPEC 2004 (1st International Workshop on Parameterized and Exact Computation)
 SWAT 2004 (9th Biennial Scandinavian Workshop on Algorithm Theory)
 MFCS 2004 (29th International Symposium on Mathematical Foundations of Computer Science)
 SWAT 2000 (7th Biennial Scandinavian Workshop on Algorithm Theory)
- Organizing Committees
 Chair of EUROCOMB 2015, August 31-September 4 2015, Bergen, Norway
 Chair of SWAT 2010, June 21-23 2010, Bergen, Norway
 WG 2006, June 22-24 2006, Sotra, Norway
 ALGO 2004, September 14-17 2004, Bergen, Norway
 Chair of SWAT 2000, July 5-7 2000, Bergen, Norway
- Doctoral and Habilitation Committees
 Charles University, Prague, Czech Republic, January 2011
 LIRMM, Montpellier, France, July 2006
 Charles University, Prague, Czech Republic, October 2000
 University of Lund, Sweden, September 1998
 University of Bergen, various committees

Teaching and Advising Experience

- Instructor
 Computer programming for Science, INF109 Fall 2017
 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

- PhD supervision

Lars Jaffke (PhD ongoing - main supervisor)

Sigve Hortemo Sæther (PhD 9/2015 - main supervisor) Choice of parameter for DP-based FPT algorithms: four case studies

Martin Vatshelle (PhD 9/2012 - main supervisor) New width parameters of graphs

Christian Sloper (PhD 1/2006 - main supervisor) Techniques in parameterized algorithm design

Petter Kristiansen (PhD 2/2003 - main supervisor) New results on the domination chain, graph homomorphisms, alliances and self-stabilizing algorithms

Co-supervisor for several PhD candidates

- Cand.Scient./Master supervision:

Joakim Alme Nordstrand, Exploring graph parameters similar to tree-width and path-width

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

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 2017 Google Scholar lists over 2200 citations to my papers, with an h-index of 30. In my field the ordering of authors is usually alphabetical. My most cited paper 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.

Journal Publications

1. D.Y.Kang, O.Kwon, T.Strømme, J.A.Telle, A width parameter useful for chordal and co-comparability graphs, *Theoretical Computer Science*
2. J.Jeong, S.Sæther, J.A.Telle, Max-matching-width: new characterizations and a fast algorithm for dominating set, *Discrete Applied Mathematics*
3. 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*
4. S.Sæther, J.A.Telle, Between treewidth and clique-width, *Algorithmica* 2016
5. J.Kratochvil, J.A.Telle, M.Tesar, Computational complexity of covering three-vertex multigraphs, *Theoretical Computer Science* 2016
6. S.Sæther, J.A.Telle, M.Vatshelle, Solving MAXSAT and # SAT by dynamic programming, *Journal of Artificial Intelligence Research*, vol 54, 59-82, 2015
7. 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
8. 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)
9. 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)
10. D.Meister and J.A.Telle, Chordal digraphs, *Theoretical Computer Science* 463: 73-83 (2012)
11. B.M.Bui-Xuan, J.A.Telle, M.Vatshelle, Boolean-width of graphs, *Theoretical Computer Science* 412(39): 5187-5204 (2011)

12. 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)
13. 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*
14. D.Meister, J.A.Telle and M.Vatshelle, Recognizing digraphs of Kelly-width 2, *Discrete Applied Mathematics 2010 ;Volume 158.(7) p. 741-746*
15. 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
16. C.Paul and J.A.Telle, Edge-maximal graphs of branchwidth k: the k-branches, *Discrete Mathematics* Volume 309.(6) p. 1467-1475. 2009
17. 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
18. C.Paul and J.A.Telle, Branchwidth of chordal graphs, *Discrete Applied Mathematics* Volume 157.(12) p. 2718-2725. 2009
19. 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
20. C.Sloper and J.A.Telle, An overview of techniques for designing parameterized algorithms, *The Computer Journal* vol 51, nr 1, 2008, 102-121
21. 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
22. 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)
23. 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
24. J.A.Telle, Tree-decompositions of small pathwidth, *Discrete Applied Mathematics* 145(2), 210-218, 2005
25. H.Bodlaender, J.A.Telle, Space-efficient construction variants of dynamic programming, *Nordic Journal of Computing* 11, 374-385, 2004
26. F.Fomin, P.Heggernes, J.A.Telle, Graph searching, elimination trees, and a generalization of bandwidth, *Algorithmica* 41-2, 73-87, 2004
27. 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

28. 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
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. M.Halldorsson, J.Kratochvil and J.A.Telle, Independent sets with domination constraints, *Discrete Applied Mathematics* 99 (1-3) 39-54, 1999.
35. 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>).
36. J.Kratochvil, A.Proskurowski and J.A.Telle, Complexity of graph covering problems, *Nordic Journal of Computing* 5 (1998), 173-195.
37. P.Heggernes and J.A.Telle, Partitioning Graphs into Generalized Dominating Sets, *Nordic Journal of Computing* 5 (1998), 128-142.
38. 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.
39. J.Kratochvil, A.Proskurowski and J.A.Telle, Covering regular graphs, *Journal of Combinatorial Theory - Series B* vol.71, No.1 (1997) 1-16.
40. 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.
41. J.A.Telle, Complexity of domination-type problems in graphs, *Nordic Journal of Computing* 1 (1994) 157-171.
42. J.A.Telle and A.Proskurowski, Efficient sets in partial k -trees, *Discrete Applied Mathematics* 44 (1993) 109-117.
43. 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

44. 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
45. Jaroslav Nesetril, Oriol Serra, Jan Arne Telle (editors), European Conference on Combinatorics, Graph Theory and Applications, Proceedings EUROCOMB 2015, Bergen, Norway, August 31-September 4, 2015. Electronic Notes in Discrete Mathematics

Conference Publications

46. L.Jaffke, O.Kwon, J.A.Telle, A unified polynomial-time algorithm for feedback vertex set on graphs of bounded mim-width, Proceedings STACS 2018
47. L.Jaffke, O.Kwon, J.A.Telle, Polynomial-time algorithms for longest induced path and induced disjoint paths problems on graphs of bounded mim-width, Proceedings IPEC 2017, LIPICS
48. D.Y.Kang, O.Kwon, T.Strømme, J.A.Telle, A width parameter useful for chordal and co-comparability graphs, Proceedings WALCOM 2017, LIPICS
49. S.Gaspers, C.Papadimitriou, S.Sæther, J.A.Telle, On satisfiability problems with a linear structure, Proceedings IPEC 2016, LNCS
50. J.Jeong, S.Sæther, J.A.Telle, Max-matching-width: new characterizations and a fast algorithm for dominating set, Proceedings IPEC 2015, LNCS
51. H.Bodlaender, P.Heggernes, J.A.Telle, Recognizability equals definability for graphs of bounded treewidth and bounded chordality, Proceedings Eurocomb 2015
52. J.Kratochvil, J.A.Telle, M.Tesar, Computational complexity of covering three-vertex multigraphs, Proceedings MFCS 2014, LNCS 8653, 493-504
53. S.Sæther, J.A.Telle, M.Vatshelle, Solving MAXSAT and #SAT on structured CNF formulas, Proceedings SAT 2014
54. S.Sæther, J.A.Telle, Between treewidth and clique-width, Proceedings WG 2014
55. Yuri Rabinovich, Jan Arne Telle, Martin Vatshelle, Upper bounds on boolean-width with applications in exact algorithms, Proceedings IPEC 2013
56. Henning Bruhn, Pierre Charbit, Jan Arne Telle, The graph formulation of the union-closed sets conjecture, Proceedings Eurocomb 2013
57. J.A.Telle and Y.Villanger, Connecting Terminals and 2-Disjoint Connected Subgraphs, Proceedings WG 2013

58. J.A.Telle and Y.Villanger, FPT algorithms for domination in biclique-free graphs, *Proceedings ESA 2012*, LNCS, 7501, 802-812, 2012
59. 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
60. E.M.Hvidevold, S.Sharmin, J.A.Telle and M.Vatshelle, Finding good decompositions for dynamic programming on dense graphs, *Proceedings IPEC 2011*, LNCS
61. 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
62. 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
63. B.M.Bui-Xuan, J.A.Telle, M.Vatshelle, Boolean-width of graphs, *Proceedings IWPEC 2009*, LNCS, 5917, pp. 6174, 2009
64. 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
65. D.Meister and J.A.Telle, Chordal digraphs, *Proceedings WG 2009*, LNCS, Volume 5911. p. 273-284
66. 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
67. 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
68. 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
69. 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
70. 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.
71. C.Sloper and J.A.Telle, Towards a taxonomy of techniques for designing parameterized algorithms, *Proceedings IWPEC'06*, LNCS vol 4169
72. C.Paul, A Proskurowski and J.A.Telle, Generating graphs of bounded branchwidth, *Proceedings WG'06*, LNCS vol 4271
73. 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

74. C.Paul and J.A.Telle, New tools and simpler algorithms for branchwidth, *Proceedings ESA'05, European Symposium on Algorithms*, LNCS 3669, 379-390
75. 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
76. 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
77. 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
78. 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
79. 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
80. 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
81. M.Habib, C.Paul and J.A.Telle, A linear-time algorithm for recognition of catval graphs, *Proceedings Eurocomb 2003*
82. 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.
83. 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
84. 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.
85. J.Gustedt, O.Mæhle and J.A.Telle, The Treewidth of Java Programs, *Proceedings ALENEX'02- 4th Workshop on Algorithm Engineering and Experiments*, San Francisco, January 4-5, 2002, Springer Verlag, Lecture Notes in Computer Science, vol 2409.

86. 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 ?-?.
87. 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.
88. 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.
89. 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.
90. 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.
91. 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.
92. 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.
93. 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.
94. J.Kratochvil, 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.
95. 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.

96. 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.
97. 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.)
98. 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.
99. 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.
100. J.A.Telle, Characterization of domination-type parameters in graphs, *Proceedings SCCGC'93 - 24th Southeastern International Conference on Combinatorics, Graph Theory and Computing -Congressus Numerantium Vol.94* (1993) 9-16.
101. V.Lo, S.Rajopadhye, S.Gupta, D.Keldsen, M.Mohamed, B.Nitzberg, J.A.Telle and X.Zhong. OREGAMI: Software tools for mapping parallel algorithms to parallel architectures, *Proceedings ICPP'90 - IEEE 1990 International Conference on Parallel Processing*, II:88-92, August 1990.
102. V.Lo, S.Rajopadhye, S.Gupta, D.Keldsen, M.Mohamed and J.A.Telle. Mapping divide-and-conquer algorithms to parallel architectures, *Proceedings ICPP'90 - IEEE 1990 International Conference on Parallel Processing*, III:128-135, August 1990.

Technical Reports (with contents not among papers listed above)

103. J.Fiala, D.Paulusma and J.A.Telle, Resolving complexity of matrix surjectivity, Preprint KAM Series, 2003, Dept of Applied Mathematics, Charles University, Prague.
104. J.A.Telle, A linear-time algorithm to find a graph with prescribed degrees of adjacent vertices, TR 129, December 1996, University of Bergen.
105. B.Aspvall, P.Heggernes and J.A.Telle, A simple cubic algorithm for minimum height elimination trees of interval graphs, TR 103, January 1995, University of Bergen.
106. J.A.Telle, Vertex Partitioning Problems: Characterization, Complexity and Algorithms on Partial k -Trees, Ph.D. Thesis, Computer and Information Sciences Department, University of Oregon, CIS-TR-18-94.
107. V.Lo, S.Rajopadhye, M.Mohamed, B.Nitzberg, J.A.Telle and X.Zhong. LARCS: A language for describing parallel computations for the purpose of mapping, CIS-TR-90-16 (originally accepted to IEEE TPDS but withdrawn due to delays)

Popular Science

108. J.A.Telle, Den nye maskinlæringen: kunstig intelligens eller bare gode verktøy?, Nytt Norsk Tidsskrift 2-2017
109. J.A.Telle, Algoritmer skapes av mennesker, Morgenbladet 25.september 2015
110. J.A.Telle, Nå kan robotene snakke sammen, Bergens Tidende 4.november 2012
111. J.A.Telle, Jakten på absolutt visshet, Bergens Tidende 23.august 2012
112. P.G.Drange and J.A.Telle, Er du venn med en robot?, Morgenbladet 22.juni 2012
113. P.G.Drange and J.A.Telle, Sådde frøene til datarevolusjonen, Bergens Tidende 22.juni 2012
114. J.A.Telle, Hva er datamaskinens fundamentale begrensninger?, QED 2-97, U.Bergen.