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

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

- Machine Teaching for Explainable AI, NFR Research Council of Norway, 2022-26, project leader
- Improving polynomial-time algorithms, Sather Grant UC Berkeley, 2013-14, joint project leader with Christos Papadimitriou
- PARALGO - Parameterized Algorithms, Research Council of Norway, NFR-FRINAT 185824/V30, 2008-2013, project leader
- PARCOM - Parameterized Complexity and Graph Algorithms, Research Council of Norway, NFR-FRIPRO, 2002-2005, project leader
- General Support for the Algorithms Research Group at UiB, Research Council of Norway, NFR-FRIPRO, 2004, project leader
- Exploiting Structure to Cope with Hard Problems, Research Council of Norway, NFR FRITEK, 2010-2015, one of three PIs
- Minimal separators and triangulations in graphs, Research Council of Norway, NFR FRINAT 2005-2009, one of two PIs
- Spectrum management in static and dynamic networks, Research Council of Norway, 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, Research Council of Norway, 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),

2015-2020
Member 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

- Program Committees (typically 15-20 members in Algorithm conferences)
  IPEC 2019, **chair** (14th International Symposium on Parameterized and Exact Computation)
  STACS 2019 (36th International Symposium on Theoretical Aspects of Computer Science)
  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 ATCAGC 2015, January 24-30, Jardim do Mar, Portugal
  Chair of SWAT 2010, June 21-23 2010, Bergen, Norway
  Chair of ATCAGC 2009, February 19-21, Finse, 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
  Utrecht University, Netherlands, June 2019
  Eindhoven University, Netherlands, June 2019
  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, Spring 2018
  Theory of Social Networks, INFO207 Fall 2012 (developed new course), 2013, 14, 18, 20
  Algorithm Engineering, INF237 Spring 2009, 10, 12, 19, 20, 22
  Discrete Structures, IM005 & MNF130 U.Bergen Spring 2003 (developed new course), 2004, 07, 11
  Advanced Algorithms, I238 & INF334 U.Bergen Fall 2002, 03, 19, 20, 21
  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
  Svein Høgemo (PhD ongoing - main supervisor)

  Lars Jaffke (PhD 8/2020 - main supervisor with Mike Fellows) Bounded width graph classes in parameterized algorithms

  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:
  Brigt Håvardstun, Machine Teaching for Explainable AI: Proof of Concept

Sondre Nilsen, Analyzing Solidity Smart Contracts
Petter Daae, Properties of locally checkable vertex partitioning problems in digraphs
Håvard Notland, Efficient Scooter Collection
Svein Høgemo, Linear MIM-width of trees
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
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

Quality: I regularly publish in international conferences and journals of high quality. I have in the last 10 years 14 publications in journals of Q1 ranking (i.e. in the top 25 % of the journals in the field according to a ranking made by SCIMAGOJR) and about 20 publications in Q2 journals including LNCS.
Citations: As of 2020 Google Scholar lists over 3000 citations to my papers, with an h-index of 32. In my field the ordering of authors is usually alphabetical.

Journal Publications

1. H.Bodlaender, L.Jaffke, J.A.Telle, Typical Sequences Revisited- Computing Width Parameters of Graphs, Theory of Computing Systems, to appear

2. J.A.Telle, C. Ferri, J. Hernandez-Orallo, The Teaching Size: Computable Teachers and Learners for Universal Languages, Machine Learning Journal (Springer) 2019, https://doi.org/10.1007/s10994-019-05821-2

3. L. Jaffke, O. Kwon, T.Strømme, and J.A. Telle, Mim-Width III. Graph powers and generalized distance domination problems, Theoretical Computer Science, to appear

4. L. Jaffke, O. Kwon, and J.A. Telle, Mim-Width II. The Feedback Vertex Set Problem, Algorithmica, to appear

5. L. Jaffke, O. Kwon, and J.A. Telle, Mim-Width I. Induced Path Problems, Discrete Applied Mathematics, to appear

6. J.A.Telle, Y.Villanger, FPT algorithms for domination in sparse graphs and beyond, Theoretical Computer Science, to appear

7. D.Y.Kang, O.Kwon, T.Strømme, J.A.Telle, A width parameter useful for chordal and co-comparability graphs, Theoretical Computer Science vol 704, 1-17, 2017

8. J.Jeong, S.Sæther, J.A.Telle, Max-matching-width: new characterizations and a fast algorithm for dominating set, Discrete Applied Mathematics, 248: 114-124 (2018)

9. 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 vol 66, 191-234, 2017

10. S.Sæther, J.A.Telle, Between treewidth and clique-width, Algorithmica vol 75(1), 218-253, 2016

11. J.Kratochvil, J.A.Telle, M.Tesar, Computational complexity of covering three-vertex multigraphs, Theoretical Computer Science vol 609, 104-117, 2016

12. S.Sæther, J.A.Telle, M.Vatshelle, Solving MAXSAT and # SAT by dynamic programming, Journal of Artifical Intelligence Research, vol 54, 59-82, 2015

13. 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

14. 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)

15. 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)

16. D.Meister and J.A.Telle, Chordal digraphs, *Theoretical Computer Science* 463: 73-83 (2012)

17. B.M.Bui-Xuan, J.A.Telle, M.Vatshelle, Boolean-width of graphs, *Theoretical Computer Science* 412(39): 5187-5204 (2011)

18. 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)

19. 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*

20. D.Meister, J.A.Telle and M.Vatshelle, Recognizing digraphs of Kelly-width 2, *Discrete Applied Mathematics 2010 ;Volume 158.(7) p. 741-746*

21. 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

22. C.Paul and J.A.Telle, Edge-maximal graphs of branchwidth k: the k-branches, *Discrete Mathematics* Volume 309.(6) p. 1467-1475. 2009

23. 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

24. C.Paul and J.A.Telle, Branchwidth of chordal graphs, *Discrete Applied Mathematics* Volume 157.(12) p. 2718-2725. 2009

25. 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

26. C.Sloper and J.A.Telle, An overview of techniques for designing parameterized algorithms, *The Computer Journal* vol 51, nr 1, 2008, 102-121

27. 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

28. 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)

29. 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

30. J.A.Telle, Tree-decompositions of small pathwidth, *Discrete Applied Mathematics* 145(2), 210-218, 2005

31. H.Bodlaender, J.A.Telle, Space-efficient construction variants of dynamic programming, *Nordic Journal of Computing* 11, 374-385, 2004

32. F.Fomin, P.Heggernes, J.A.Telle, Graph searching, elimination trees, and a generalization of bandwidth, *Algorithmica* 41-2, 73-87, 2004

33. 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

34. 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

35. M.Halldorsson, G.Korsatz, A.Proskurowski, R.Salman, H.Shachnai and J.A.Telle, Multicoloring Trees, *Information and computation* 180 (2003), 113-129, 2003.

36. 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.

37. 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.

38. 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.

39. 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.

40. M.Halldorsson, J.Kratochvil and J.A Telle, Independent sets with domination constraints, *Discrete Applied Mathematics* 99 (1-3) 39-54, 1999.

41. 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).

42. J.Kratochvil, A.Proskurowski and J.A.Telle, Complexity of graph covering problems, *Nordic Journal of Computing* 5 (1998), 173-195.

43. P.Heggernes and J.A.Telle, Partitioning Graphs into Generalized Dominating Sets, *Nordic Journal of Computing* 5 (1998), 128-142.

44. 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.

45. J.Kratochvil, A.Proskurowski and J.A.Telle, Covering regular graphs, *Journal of Combinatorial Theory - Series B* vol.71, No.1 (1997) 1-16.

46. 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.

47. J.A.Telle, Complexity of domination-type problems in graphs, *Nordic Journal of Computing* 1 (1994) 157-171.

48. J.A.Telle and A.Proskurowski, Efficient sets in partial k-trees, *Discrete Applied Mathematics* 44 (1993) 109-117.

49. 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

50. 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

51. 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

Conference Publications

52. S.Høgemo, C.Paul, J.A.Telle, Hierarchical Clusterings of Unweighted Graphs, Mathematical Foundations of Computer Science, MFCS 2020

53. B.Bergougnoux, C.Papadopoulos, J.A.Telle, Node Multiway Cut and Subset Feedback Vertex Set on Graphs of Bounded mim-width, Workshop on Graph-Theoretic Concepts in Computer Science, WG 2020

54. J. Hernandez-Orallo, J.A.Telle, Finite and Confident Teaching in Expectation: Sampling from Infinite Concept Classes, European Conference on Artificial Intelligence, ECAI 2020

55. H.Bodlaender, L.Jaffke, J.A.Telle, Typical Sequences Revisited- Computing Width Parameters of Graphs, Symposium on Theoretical Aspects of Computer Science, STACS 2020

56. C. Ferri, J. Hernandez-Orallo, J.A.Telle, Teaching Explanations by Examples, Proceedings Machine Intelligence 21 (MI21-HLC) workshop, Windsor UK 2019

57. J.A.Telle, C. Ferri, J. Hernandez-Orallo, The Teaching Size: Computable Teachers and Learners for Universal Languages, Proceedings ECML/KPDD 2019

58. S.Høgemo, J.A.Telle, E.R.Vågset, Linear mim-width of trees, Proceedings WG 2019

59. L.Jaffke, O.Kwon, J.A.Telle, T.Strømme, Generalized distance domination problems and graphs of bounded mim-width , Proceedings IPEC 2018

60. 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

61. 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

62. D.Y.Kang, O.Kwon, T.Strømme, J.A.Telle, A width parameter useful for chordal and co-comparability graphs, Proceedings WALCOM 2017, LIPICS

63. S.Gaspers, C.Papadimitriou, S.Sæther, J.A.Telle, On satisfiabaility problems with a linear structure, Proceedings IPEC 2016, LNCS

64. J.Jeong, S.Sæther, J.A.Telle, Max-matching-width: new characterizations and a fast algorithm for dominating set, Proceedings IPEC 2015, LNCS

65. H.Bodlaender, P.Heggernes, J.A.Telle, Recognizability equals definability for graphs of bounded treewidth and bounded chordality, Proceedings Eurocomb 2015

66. J.Kratochvil, J.A.Telle, M.Tesar, Computational complexity of covering three-vertex multigraphs, Proceedings MFCS 2014, LNCS 8653, 493-504

67. S.Sæther, J.A.Telle, M.Vatshelle, Solving MAXSAT and #SAT on structured CNF formulas, Proceedings SAT 2014

68. S.Sæther, J.A.Telle, Between treewidth and clique-width, Proceedings WG 2014

69. Yuri Rabinovich, Jan Arne Telle, Martin Vatshelle, Upper bounds on boolean-width with applications in exact algorithms, Proceedings IPEC 2013

70. Henning Bruhn, Pierre Charbit, Jan Arne Telle, The graph formulation of the union-closed sets conjecture, Proceedings Eurocomb 2013

71. J.A.Telle and Y.Villanger, Connecting Terminals and 2-Disjoint Connected Subgraphs, Proceedings WG 2013

72. J.A.Telle and Y.Villanger, FPT algorithms for domination in biclique-free graphs, *Proceedings ESA 2012*, LNCS, 7501, 802-812, 2012

73. 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

74. E.M.Hvidevold, S.Sharmin, J.A.Telle and M.Vatshelle, Finding good decompositions for dynamic programming on dense graphs, Proceedings IPEC 2011, LNCS

75. 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

76. 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

77. B.M.Bui-Xuan, J.A.Telle, M.Vatshelle, Boolean-width of graphs, *Proceedings IWPEC 2009*, LNCS, 5917, pp. 6174, 2009

78. 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

79. D.Meister and J.A.Telle, Chordal digraphs, *Proceedings WG 2009*, LNCS, Volume 5911. p. 273-284

80. 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

81. 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

82. 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

83. 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

84. 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.

85. C.Sloper and J.A.Telle, Towards a taxonomy of techniques for designing parameterized algorithms, *Proceedings IWPEC'06*, LNCS vol 4169

86. C.Paul, A Proskurowski and J.A.Telle, Generating graphs of bounded branchwidth, *Proceedings WG'06*, LNCS vol 4271

87. 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

88. C.Paul and J.A.Telle, New tools and simpler algorithms for branchwidth, *Proceedings ESA'05, European Symposium on Algorithms*, LNCS 3669, 379-390

89. 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

90. 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

91. 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

92. 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 Algorithm*s, 907-916

93. 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

94. 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

95. M.Habib, C.Paul and J.A.Telle, A linear-time algorithm for recognition of catval graphs, Proceedings Eurocomb 2003

96. 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.

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