

Publications - Jørgen Bang-Jensen:

September 3, 2013

Books and theses

1. Jørgen Bang-Jensen and Gregory Gutin, *Digraphs: Theory, Algorithms and Applications*, Springer Verlag, London (2000) xxii+ 754pp.
see also <http://www.imada.sdu.dk/Research/Digraphs/>
2. Jørgen Bang-Jensen, *Path problems and generalized colouring problems for tournaments and other classes of digraphs: characterizations, algorithms and complexity*, Ph.D. Thesis, Odense University, May 1988.
3. Jørgen Bang-Jensen, *Digraphs: Theory and algorithms*, Danish doctoral thesis handed in in April 2001 for partial fulfillment of the requirements for obtaining the Danish doctoral degree in natural sciences. The degree was awarded on January 29, 2002 by the Faculty of Natural Sciences at University of Southern Denmark.
4. Jørgen Bang-Jensen and Gregory Gutin, *Digraphs: Theory, Algorithms and Applications*, 2nd edition xxii+ 816pp, January 2009.

Peer reviewed research papers

1. Jørgen Bang-Jensen, Pavol Hell and Gary MacGillivray, The complexity of colouring by semicomplete digraphs, *Siam Journal on Discrete Mathematics* **1** (1988) 281-298
2. Jørgen Bang-Jensen, On the 2-linkage problem for semicomplete digraphs. Graph Theory in the memory of G.A. Dirac, **Annals of Discrete Mathematics**, Vol **41** (1989) 23-38.
3. Jørgen Bang-Jensen, On the complexity of generalized colourings by directed graphs. In conference proceedings from Twente workshop on Graphs and Combinatorial Optimization May 24-26, 1989. Memorandum no. 787 Universiteit Twente, faculteit der togepaste wiskunde, U.Faigle, C.Hoede (eds.), 13-20.
4. Jørgen Bang-Jensen and Pavol Hell, The effect of two directed cycles on the complexity of colourings by directed graphs, *Discrete Applied Mathematics* **26** (1990) 1-23.
5. Jørgen Bang-Jensen, Locally semicomplete digraphs: a generalization of tournaments, *Journal of Graph Theory* **14** (1990) 371-390.
6. **a.** Jørgen Bang-Jensen, Pavol Hell and Jing Huang, Local tournaments and proper circular-arc graphs, *Springer Lecture Notes in Computer Science* **450** (1990) 101 - 108.
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7. Jørgen Bang-Jensen, Edge disjoint In- and Out-branchings in Tournaments and related path problems, *Journal of Combinatorial Theory Series B* **51** (1991) 1-23.
8. Jørgen Bang-Jensen, A note on a special case of the 2-path problem for semicomplete digraphs. In **Graph Theory, Combinatorics, and Applications** Eds. Alavi, Chartrand, Oellermann and Schwenk, Wiley (1991) 77-86.
9. Jørgen Bang-Jensen and Gary MacGillivray, Further effects of two directed cycles on the complexity of H-colouring, *Journal of Combinatorial Mathematics and Combinatorial Computing* **10** (1991) 33-50.

10. Jørgen Bang-Jensen, Yannis Manoussakis and Carsten Thomassen, A polynomial algorithm for hamiltonian connectedness in semicomplete digraphs, *J.Algorithms* 13 (1992) 114-127.
11. Jørgen Bang-Jensen and Carsten Thomassen , A polynomial algorithm for the 2-path problem for semicomplete digraphs, *SIAM Journal on Discrete Mathematics* 5 (1992) 366-376.
12. Jørgen Bang-Jensen, On the structure of locally semicomplete digraphs, *Discrete Mathematics* 100 (1992) 243-265.
13. Jørgen Bang-Jensen, Pavol Hell and Gary MacGillivray, On the complexity of colouring by supergraphs of bipartite graphs, *Discrete Mathematics* 109 (1992) 27-44.
14. Jørgen Bang-Jensen and Pavol Hell, Fast algorithms for finding hamiltonian paths and cycles in in-tournament digraphs, *Discrete Applied Mathematics* 41 (1993) 75-79.
15. Jørgen Bang-Jensen, Svatopluk Poljak, Eulerian trails through a set of terminals in specific unique and all orders, in **Contemporary Mathematics** 147 (1993) 247-258.
16. Jørgen Bang-Jensen and Gary MacGillivray, On the complexity of colouring by digraphs With at most one directed cycle, *Ars Combinatorica* vol 25A (1993) 175-186.
17. Jørgen Bang-Jensen, Jing Huang and Erich Prisner, In-tournament digraphs, *Journal of Combinatorial Theory B* 59 (1993) 267-287.
18. Jørgen Bang-Jensen and Yannis Manoussakis, Cycles through k vertices in bipartite tournaments, *Combinatorica* 14 (2) (1994) 1-4.
19. Jørgen Bang-Jensen and Pavol Hell, Chordal proper circular arc graphs, *Discrete Mathematics* 128 (1994) 395-398.
20. Jørgen Bang-Jensen, Pavol Hell and Jing Huang, Optimal recognition of local tournaments, *Congressus Numerantium* 100 (1994) 141-146.
21. Jørgen Bang-Jensen, Gregory Gutin and Jing Huang, Weakly hamiltonian-connected ordinary-multipartite tournaments, *Discrete Mathematics* 138 (1995) 63-74.
22. Jørgen Bang-Jensen, Pavol Hell and Gary MacGillivray, Hereditarily hard colouring problems, *Discrete Mathematics* 138 (1995) 75-92.
23. Jørgen Bang-Jensen and Yannis Manoussakis, Weakly hamiltonian connected bipartite tournaments *Journal of Combinatorial Theory B* 63 (1995) 261-280.
24. Jørgen Bang-Jensen, Andras Frank and Bill Jackson, Preserving and increasing local edge-connectivity in mixed graphs, *SIAM J. Disc. Math* 8 (1995) 155-178.
25. Jørgen Bang-Jensen and Jing Huang, Quasi-transitive digraphs, *Journal of Graph Theory* 20 (1995) 141-161.
26. Jørgen Bang-Jensen, Digraphs With the path merging property, *Journal of Graph Theory* 20 (1995) 255-265.
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28. Jørgen Bang-Jensen, Gregory Gutin and Hao Li, sufficient conditions for a digraph to be hamiltonian, *J. Graph Theory* 22 (1996) 181-187.
29. Jørgen Bang-Jensen, Gregory Gutin and Jing Huang, A sufficient condition for hamiltonian cycles in complete multipartite digraphs, *Discrete Mathematics* 161 (1996) 1-12.
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31. Jørgen Bang-Jensen, Gregory Gutin, Paths, trees and cycles in Semicomplete digraphs-A survey, **Surveys in Graph Theory**, eds. **Chartrand and Jacobson**, *Congr. Numer.* 115 (1996) 131-170.
32. Jørgen Bang-Jensen, Gregory Gutin, Vertex heaviest paths and cycles in quasi-transitive digraphs, *Discrete Mathematics* 163 (1997) 217-223.

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34. Jørgen Bang-Jensen, Gregory Gutin, Paths and cycles in extended and decomposable digraphs, *Discrete Mathematics*, **164** (1997) 5-19.
35. Jørgen Bang-Jensen, Gregory Gutin, Alternating cycles and paths in edge-coloured multigraphs, *Discrete Mathematics* **165-166** (1997) 39-60.
36. Jørgen Bang-Jensen, Yubao Guo, Gregory Gutin and Lutz Volkmann, A classification of locally semicomplete digraphs, *Discrete mathematics* **167-168** (1997) 99-112.
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41. Jørgen Bang-Jensen, Gregory Gutin, Alternating cycles and trails in 2-edge-coloured complete multigraphs, *Discrete Mathematics* **188** (1998) 61-72.
42. Jørgen Bang-Jensen, Gregory Gutin and Anders Yeo, A polynomial algorithm for the Hamiltonian cycle problem in semicomplete multipartite digraphs, *Journal of Graph Theory* **29** (1998) 111-132.
43. Jørgen Bang-Jensen, Gregory Gutin, Generalizations of tournaments: A survey, *Journal of Graph Theory* **28** (1998) 171-202.
44. **a** Jørgen Bang-Jensen and Tibor Jordan, Edge-connectivity augmentation preserving simplicity, *Siam J. Disc. Math.* **11** (1998) 603-623.
b Jørgen Bang-Jensen and Tibor Jordan, Edge-connectivity augmentation preserving simplicity, *Proceedings of 38th IEEE FOCS* (1997) 486-495.
45. Jørgen Bang-Jensen, Linkages in locally semicomplete digraphs and quasi-transitive digraphs, *Discrete Mathematics*, **196** (1999) 13-27.
46. Jørgen Bang-Jensen and Bill Jackson, Augmenting hypergraphs by edges of size two, *Mathematical programming Series B*, **84** (1999) 467-481.
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48. Jørgen Bang-Jensen, Yubao Guo and Anders Yeo, A new sufficient condition for a digraph to be Hamiltonian, *Discrete Applied Mathematics*, **95** (1999) 61-72.
49. **a** Jørgen Bang-Jensen, Harold Gabow, Zoltán Szigeti and Tibor Jordán, Edge-connectivity augmentation with partition constraints, *Siam J. Disc. Math.*, **12** (1999) 160-207.
b Jørgen Bang-Jensen, Harold Gabow, Zoltán Szigeti and Tibor Jordán, Edge-connectivity augmentation with partition constraints, *Proc. 9th Annual ACM-SIAM Symp. on Discrete Algorithms*, 1998, 306-315.
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54. Jørgen Bang-Jensen and Anders Yeo, The minimum strong spanning subdigraph problem for extended semi-complete digraphs and semicomplete bipartite digraphs, *J. Algorithms*, **41** (2001) 1-19.
55. Jørgen Bang-Jensen and Jing Huang, Convex-round graphs are circular-perfect, *Journal of Graph Theory* **40** (2002) 182-194
56. Jørgen Bang-Jensen, Stéphan Thomassé and Anders Yeo, Small degree out-branchings, *Journal of Graph Theory* **42** (2003) 297-307.
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64. Jørgen Bang-Jensen and Stephan Brandt, Subgraphs in the neighbourhoods of K_r -free graphs, *J. Graph Theory* **47** (2004) 29-38.
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 89. Jørgen Bang-Jensen, Frederic Havet and Nicolas Trotignon, Finding an induced subdivision of a digraph, *Theoretical Computer Science* **443** (2012) 10-24.
 90. Jørgen Bang-Jensen and Anders Yeo, Arc-disjoint spanning sub(di)graphs in Digraphs, *Theoretical Computer Science* **438** (2012) 48-54.
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 92. Jørgen Bang-Jensen, Alessandro Maddaloni and Sven Simonsen, Quasi-hamiltonian paths in semicomplete multipartite digraphs, *Discrete Applied Mathematics* **161** (2013) 889-898.
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- To appear**
94. Jørgen Bang-Jensen and Christoffer Christensen, Experimental analysis of heuristics for finding well-balanced pairs of edge-disjoint trees in weighted graphs *International Journal of Operational Research*, to appear.
 95. Jørgen Bang-Jensen, Stephane Bessy and Stephan Thomassé, Disjoint 3-cycles in tournaments: a proof of the Bermond-Thomassen conjecture for tournaments, *J. Graph Theory*, to appear.
 96. Jørgen Bang-Jensen and Sven Simonsen, Arc-disjoint paths and trees in 2-regular digraphs, *Discrete Applied Mathematics*, to appear.
 97. Jørgen Bang-Jensen and Alessandro Maddaloni, Arc-disjoint paths in generalizations of tournaments *J. Graph Theory*, to appear

Extended abstracts and contributions to problem collections:

1. Jørgen Bang-Jensen, Path and cycle problems for generalizations of tournaments, presented at 1995 Prague midsummer combinatorial workshop, *KAM series in Discrete Mathematics-Combinatorics Operations Research-Optimization* **95-309** (1995).
2. Jørgen Bang-Jensen, Problems concerning global connectivity of directed graphs, *Electronic Notes in Discrete Mathematics*, Volume 5 (2000), 4 pages.
3. Jørgen Bang-Jensen and Anders Yeo, Making a tournament k -arc-strong by reversing arcs, *Electronic Notes in Discrete Mathematics*, Volume 8 (2001) 4 pages.
4. Jørgen Bang-Jensen, Problems and Conjectures concerning connectivity of tournaments, in proceedings of the tenth Midsummer combinatorial workshop in Prague (M. Balek, ed., KAM-DIMATIA series in Discrete Mathematics-Combinatorics-Operations Research-Optimization, **2004-682** (2004) 15-19.
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6. Jørgen Bang-Jensen, Bruce Reed, Mathias Schacht, Robert Samal, Bjarne Toft and Ulrich Wagner, On six problems by Jarik Nesetril, in *Topics in Discrete Mathematics* (eds. M. Klazar et al.) **26** Springer (2006) 613-627.
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Editorial contributions:

1. Jørgen Bang-Jensen and Bjarne Toft, Unsolved problems presented at the Julius Petersen Graph Theory Conference, *Discrete Mathematics* 101 (1992) 351-360.
2. Jørgen Bang-Jensen, L.D. Andersen, T.R. Jensen, L.K.Jørgensen, G.Sabidussi, C.Thomassen, B. Toft and P.D. Vestergaard, The Julius Petersen Graph Theory Centennial, **Topics in Discrete Mathematics** 6 (1992), North Holland.
3. Jørgen Bang-Jensen, L.D. Andersen, J. Bárát, M.Chiarandini, T.R. Jensen, L.K.Jørgensen, M. Kriesell, A.S. Pedersen, B. Toft, Special Issue: Graph Theory – Dedicated to Carsten Thomassen on his 60th birthday, *Discrete Mathematics* **31020** (2010).

Papers submitted for publication

1. Jørgen Bang-Jensen, Matthias Kriesell, Alessandro Maddaloni and Sven Simonsen, Vertex-disjoint directed and undirected cycles in general digraphs, *J. Combinatorial Theory Ser B*, 2011, submitted.
2. Jørgen Bang-Jensen and Stephane Bessy, Small cycle transversals in tournaments, *J. Graph Theory* (2012) submitted.
3. Jørgen Bang-Jensen, Frédéric Havet and Anna Karolína Maia, Finding a subdivision in a digraph *Theoretical Computer Science*, 2012, submitted.
4. Jørgen Bang-Jensen and Jing Huang, Arc-disjoint in- and out-branchings rooted at the same vertex in locally semicomplete digraphs, *J. Graph Theory*, 2012, submitted.
5. Jørgen Bang-Jensen and Anders Yeo, The complexity of multicut problems and mixed multicut problems in (di)graphs, *Theoretical Computer Science*, 2012, submitted.
6. Jørgen Bang-Jensen and Stephane Bessy, (Arc)-disjoint flows in networks. *Theoretical computer science* (2013) submitted.
7. Jørgen Bang-Jensen and Tilde My Larsen, DAG-width and circumference in digraphs, *J. Graph Theory* (2013) submitted.
8. Jørgen Bang-Jensen and Alessandro Maddaloni, Supereulerian digraphs, *J. Graph Theory* (2013) submitted.

Papers under preparation:

1. Jørgen Bang-Jensen, Alessandro Maddaloni and Saket Saurabh, Polynomial kernels for feedback vertex set problems in locally semicomplete digraphs.
2. Jørgen Bang-Jensen, Saket Saurabh and Sven Simonsen, Polynomial Kernels for non-separating trees and branchings in digraphs.
3. Jørgen Bang-Jensen and Mette Gamst, Exact algorithms for the minimum strong spanning subdigraph problem.
4. Jørgen Bang-Jensen and Matthias Kriesell, Arc-disjoint directed and undirected cycles in general digraphs.
5. Jørgen Bang-Jensen and Alessandro Maddaloni, Disjoint paths in generalizations of tournaments.

Additional manuscripts and preprints:

1. Jørgen Bang-Jensen, Arc-local Tournaments: a generalization of tournaments and bipartite tournaments. Preprint no 2 (1993) Department of Mathematics and Computer Science, Odense University.
2. Jørgen Bang-Jensen, Bill Jackson, Minimal augmentation and vertex splitting in mixed graphs, Preprint no 5 (1992) Department of Mathematics and Computer Science, Odense University.
3. Jørgen Bang-Jensen, Luke O'Connor, Cycle coloring is NP-complete.
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5. Jørgen Bang-Jensen, A reformulation of Huang's structure theorem on local tournament digraphs with some consequences, Preprint no 13(1994), Department of Mathematics and Computer Science, Odense University.
6. Jørgen Bang-Jensen, Mohamed El Haddad, Parallel algorithms for hamiltonian paths specified (unordered) end vertices in semicomplete bipartite digraphs and extended tournament, Preprint no 8 (1996), Department of Mathematics and Computer Science, Odense University.
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