

# Publications - Jørgen Bang-Jensen:

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## 1. **Books and theses:**

- 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/>
- 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.
- 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.
- Jørgen Bang-Jensen and Gregory Gutin, *Digraphs: Theory, Algorithms and Applications*, 2nd edition xxii+ 816pp, January 2009.

## **Research Papers:**

- Jørgen Bang-Jensen, Pavol Hell and Gary MacGillivray, The complexity of colouring by semicomplete digraphs, *Siam Journal on Discrete Mathematics* 1 (1988) 281-298
- 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.
- 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 toepaste wiskunde, U.Faigle, C.Hoede (eds.), 13-20.
- 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.
- Jørgen Bang-Jensen, Locally semicomplete digraphs: a generalization of tournaments, *Journal of Graph Theory* 14 (1990) 371-390.
- 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.
  - Jørgen Bang-Jensen, Pavol Hell and Jing Huang, Local tournaments and proper circular-arc graphs, Simon Fraser University Technical Report CSS/LCCR TR90-11, (1990) **Expanded version of 6a.**
- 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.
- 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.
- 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.
- Jørgen Bang-Jensen, Yannis Manoussakis and Carsten Thomassen, A polynomial algorithm for hamiltonian connectedness in semicomplete digraphs, *J.Algorithms* 13 (1992) 114-127.

15. 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.
16. Jørgen Bang-Jensen, On the structure of locally semicomplete digraphs, *Discrete Mathematics* 100 (1992) 243-265.
17. Jørgen Bang-Jensen, Pavol Hell and Gary MacGillivray, On the complexity of colouring by supergraphs of bipartite graphs, *Discrete Mathematics* 109 (1992) 27-44.
18. 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.
19. 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.
20. 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.
21. Jørgen Bang-Jensen, Jing Huang and Erich Prisner, In-tournament digraphs, *Journal of Combinatorial Theory B* **59** (1993) 267-287.
22. Jørgen Bang-Jensen and Yannis Manoussakis, Cycles through k vertices in bipartite tournaments, *Combinatorica* **14** (2) (1994) 1-4.
23. Jørgen Bang-Jensen and Pavol Hell, Chordal proper circular arc graphs, *Discrete Mathematics* **128** (1994) 395-398.
24. Jørgen Bang-Jensen, Pavol Hell and Jing Huang, Optimal recognition of local tournaments, *Congressus Numerantium* **100** (1994) 141-146.
25. Jørgen Bang-Jensen, Gregory Gutin and Jing Huang, Weakly hamiltonian-connected ordinary-multipartite tournaments, *Discrete Mathematics* **138** (1995) 63-74.
26. Jørgen Bang-Jensen, Pavol Hell and Gary MacGillivray, Hereditarily hard colouring problems, *Discrete Mathematics* **138** (1995) 75-92.
27. Jørgen Bang-Jensen and Yannis Manoussakis, Weakly hamiltonian connected bipartite tournaments *Journal of Combinatorial Theory B* **63** (1995) 261-280.
28. 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.
29. Jørgen Bang-Jensen and Jing Huang, Quasi-transitive digraphs, *Journal of Graph Theory* **20** (1995) 141-161.
30. Jørgen Bang-Jensen, Digraphs With the path merging property, *Journal of Graph Theory* **20** (1995) 255-265.
31. Jørgen Bang-Jensen, Yubao Guo and Lutz Volkmann, Weakly Hamiltonian-connected locally semicomplete digraphs, *Journal of Graph Theory* **21** (1996) 163-172.
32. Jørgen Bang-Jensen, Gregory Gutin and Hao Li, sufficient conditions for a digraph to be hamiltonian, *J. Graph Theory* **22** (1996) 181-187.
33. Jørgen Bang-Jensen, Gregory Gutin and Jing Huang, A sufficient condition for hamiltonian cycles in complete multipartite digraphs, *Discrete Mathematics* **161** (1996) 1-12.
34. Jørgen Bang-Jensen, Gregory Gutin and Anders Yeo,  $k$ -strong and  $k$ -cyclic digraphs, *Discrete Mathematics* **162** (1996) 1-11.
35. 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.
36. Jørgen Bang-Jensen, Gregory Gutin, Vertex heaviest paths and cycles in quasi-transitive digraphs, *Discrete Mathematics* **163** (1997) 217-223.
37. Jørgen Bang-Jensen, Mohammed El Haddad, Yannis Manoussakis and Teresa Przytycka, Parallel algorithms for the hamiltonian cycle and hamiltonian path problems in semicomplete bipartite digraphs, *Algorithmica* **17** (1997) 67-87.

38. Jørgen Bang-Jensen, Gregory Gutin, Paths and cycles in extended and decomposable digraphs, *Discrete Mathematics*, **164** (1997) 5-19.
39. Jørgen Bang-Jensen, Gregory Gutin, Alternating cycles and paths in edge-coloured multigraphs, *Discrete Mathematics* **165-166** (1997) 39-60.
40. Jørgen Bang-Jensen, Yubao Guo, Gregory Gutin and Lutz Volkmann, A classification of locally semicomplete digraphs, *Discrete mathematics* **167-168** (1997) 99-112.
41. Jørgen Bang-Jensen, Gregory Gutin and Anders Yeo, Hamiltonian cycles avoiding all arcs in prescribed cliques in tournaments, *Combinatorics, Probability and Computing* **6** (1997) 255-261.
42. Jørgen Bang-Jensen, Tibor Jordan, Adding and reversing arcs in semicomplete digraphs, *Combinatorics, Probability and Computing* **7** (1998) 17-25.
43. Jørgen Bang-Jensen and Jing Huang, Kings in Quasi-transitive digraphs, *Discrete mathematics* **185** (1998) 19-27.
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45. Jørgen Bang-Jensen, Gregory Gutin, Alternating cycles and trails in 2-edge-coloured complete multigraphs, *Discrete Mathematics* **188** (1998) 61-72.
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48. 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.
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50. Jørgen Bang-Jensen and Bill Jackson, Augmenting hypergraphs by edges of size two, *Mathematical programming Series B*, **84** (1999) 467-481.
51. Jørgen Bang-Jensen and Gregory Gutin, On the complexity of Hamiltonian path and cycle problems in certain classes of digraphs, *Discrete Applied Mathematics*, **95** (1999) 41-60.
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53. 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.  
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58. Jørgen Bang-Jensen and Anders Yeo, The minimum strong spanning subdigraph problem for extended semicomplete digraphs and semicomplete bipartite digraphs, *J. Algorithms*, **41** (2001) 1-19.

59. Jørgen Bang-Jensen and Jing Huang, Convex-round graphs are circular-perfect, *Journal of Graph Theory* **40** (2002) 182-194
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61. Jørgen Bang-Jensen and Stéphan Thomassé, Highly connected hypergraphs containing no two edge-disjoint spanning connected subhypergraphs, *Discrete Applied mathematics* **131** (2003) 555-559.
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63. Jørgen Bang-Jensen, Gregory Gutin and Anders Yeo, Steiner type problems for digraphs that are either locally semicomplete or extended semicomplete, *J. Graph Theory* **44** (2003) 193-207.
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66. Jørgen Bang-Jensen and Anders Yeo, Decomposing  $k$ -arc-strong tournaments into arc-disjoint spanning subdigraphs, *Combinatorica* **24** (2004) 331-349.
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68. Jørgen Bang-Jensen and Stephan Brandt, Subgraphs in the neighbourhoods of  $K_r$ -free graphs, *J. Graph Theory* **47** (2004) 29-38.
69. Jørgen Bang-Jensen, The structure of strong arc-locally semicomplete digraphs, *Discrete Mathematics* **283** (2004) 1-6.
70. Jørgen Bang-Jensen, Gregory Gutin and Anders Yeo, When the greedy algorithm fails, *Discrete Optimization* **1** (2004) 121-127.
71. Jørgen Bang-Jensen and Morten Hegner Nielsen, finding complementary cycles in locally semicomplete digraphs, *Discrete Applied Mathematics* **146** (2005) 245-256.
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74. Jørgen Bang-Jensen, Jing Huang, Gary MacGillivray and Anders Yeo, Domination in convex bipartite and round graphs, *International Journal of Mathematical Sciences, Special Issue: Recent Trends in Computational Mathematics and its Applications* Vol 5 no.2 (2006).
75. Jørgen Bang-Jensen, Jing Huang and Lou Ibarra, Recognizing and representing proper interval graphs in parallel using sorting, *Discrete Applied Mathematics* 155 (2007) 442-456.
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78. Jørgen Bang-Jensen and Morten Hegner Nielsen, Minimum cycle factors in quasi-transitive digraphs, *Discrete Optimization* **5** (2008) 121-137.
79. Jørgen Bang-Jensen and Tibor Jordán, On persistent directed graphs, *Networks* **52** (2008) 271-276.
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82. Kim Allan Andersen, Jørgen Bang-Jensen and Marcel Turkenstein, Solving Large Clustering Problems with Meta-Heuristic Search, in Proceedings of MIC 2009, Hamburg July 13-16 2009.
83. Jørgen Bang-Jensen, Problems and conjectures concerning connectivity, paths, trees and cycles in tournament-like digraphs, *Discrete Mathematics* **309** (2009) 5655-5667.
84. Jørgen Bang-Jensen and Matthias Kriesell, Disjoint directed and undirected paths and cycles in digraphs, *Theoretical Computer Science*, **410** (2009) 5138-5144.
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88. Jørgen Bang-Jensen, Gary MacGillivray and Jacobus Swartz, The complexity of colouring by locally semicomplete digraphs *Discrete Mathematics* **310** (2010) 2675-2684.
89. Jørgen Bang-Jensen and Yury Nikulin, Heuristics for the central tree problem, *Journal of Heuristics* **16** (2010) 633-651.
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91. Jørgen Bang-Jensen and Matthias Kriesell, On the problem of finding disjoint cycles and dicycles in a digraph *Combinatorica*, **31** (2011) 639-668.
92. Jørgen Bang-Jensen and Jing Huang, Decomposing locally semicomplete digraphs into spanning strong subdigraphs, *J. Combinatorial Theory Ser. B* **102** (2012) 701-714.

**To appear**

93. 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.
94. Jørgen Bang-Jensen, Frederic havet and Nicolas Trotignon, Finding an induced subdivision of a digraph, *Theoretical Computer Science*, to appear.
95. Jørgen Bang-Jensen and Anders Yeo, Arc-disjoint spanning sub(di)graphs in Digraphs, *Theoretical Computer Science*, to appear.
96. Jørgen Bang-Jensen and Rune Larsen, Efficient algorithms for real-life instances of the variable size bin packing problem, *Computers & Operations Research*, to appear.

**Extended abstracts and contributions to problem collections:**

97. 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).
98. Jørgen Bang-Jensen, Problems concerning global connectivity of directed graphs, *Electronic Notes in Discrete Mathematics*, Volume 5 (2000), 4 pages.
99. 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.
100. 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.

101. Jørgen Bang-Jensen, Augmentations, arc reversals and deorientations in digraphs, in proceedings of the eleventh Midsummer combinatorial workshop in Prague (Z. Dvorak, ed.), KAM-DIMATIA series in Discrete Mathematics-Combinatorics-Operations Research-Optimization, **2005-733** (2005) 10-19.
102. 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.
103. Jørgen Bang-Jensen and Matthias Kriesell, Disjoint sub(di)graphs in digraphs, *Electronic Notes in Discrete Mathematics* **34** (2009) 179-183.
104. Jørgen Bang-Jensen, Frederic Havet and Nicolas Trotignon, Finding an induced subdivision of a digraph, *Electronic Notes in Discrete Mathematics* **37** (2011) 9-14.

**Editorial contributions:**

105. Jørgen Bang-Jensen and Bjarne Toft, Unsolved problems presented at the Julius Petersen Graph Theory Conference, *Discrete Mathematics* 101 (1992) 351-360.
106. 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.
107. 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).

**Submitted papers**

108. Jørgen Bang-Jensen, Steffen Elbjerg Godskesen and Thomas Sejr Jensen, Long term Scheduling for home health care, *J. Heuristics* (2010), submitted.
109. Jørgen Bang-Jensen, Daniel Golcalves and Anders Yeo, Partitioning the arcs of a digraph into a star forests of the underlying graph with prescribed orientation properties, *Theoretical Computer Science* (2010) submitted.
110. Jørgen Bang-Jensen and Stephan Brandt, Expansion and hamiltonicity in digraphs, *J. Graph Theory*, 2011, submitted.
111. 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.
112. 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*, 2011, submitted.
113. Jørgen Bang-Jensen and Stephane Bessy, Small cycle transversals in tournaments, *J. Graph Theory* (2012) submitted.

**In preparation:**

114. Jørgen Bang-Jensen and Jing Huang, Arc-disjoint in- and out-branchings rooted at the same vertex in locally semicomplete digraphs, in preparation.
115. Jørgen Bang-Jensen and Alessandro Maddaloni, Arc-disjoint paths in generalizations of tournaments.
116. Jørgen Bang-Jensen, Frédéric Havet and Anna Karolína Maia, Finding a subdivision in a digraph.
117. Jørgen Bang-Jensen and Sven Simonsen, Arc-disjoint paths and trees in 2-regular digraphs.
118. Jørgen Bang-Jensen, Alessandro Maddaloni and Sven Simonsen, Quasi-hamiltonian paths in semicomplete multipartite digraphs.

**Additional manuscripts and preprints:**

119. 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.

120. 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.
121. Jørgen Bang-Jensen, Luke O'Connor, Cycle coloring is NP-complete.
122. Jørgen Bang-Jensen, Gregory Gutin, Finding maximum vertex weight paths and cycles in  $\Phi$ -decomposable digraphs, using flows in networks, Preprint no 51 (1993), Department of Mathematics and Computer Science, Odense University.
123. 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.
124. 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.
125. Jørgen Bang-Jensen and Stéphan Thomassé, Decomposition and orientation of hypergraphs, Preprint no 7 (2001), Department of Mathematics and Computer Science, University of Southern Denmark.