

Publications - Jørgen Bang-Jensen:

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. To be published fall 2008.

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
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- 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.
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- Jørgen Bang-Jensen, Pavol Hell and Gary MacGillivray, On the complexity of colouring by supergraphs of bipartite graphs, *Discrete Mathematics* 109 (1992) 27-44.
- 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.
- 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.
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22. Jørgen Bang-Jensen and Yannis Manoussakis, Cycles through k vertices in bipartite tournaments, *Combinatorica* **14** (2) (1994) 1-4.
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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.
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38. Jørgen Bang-Jensen, Gregory Gutin, Paths and cycles in extended and decomposable digraphs, *Discrete Mathematics*, **164** (1997) 5-19.
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78. Jørgen Bang-Jensen and Tibor Jordán, On persistent directed graphs, *Networks* (2008), to appear (available electronically).
 79. Jørgen Bang-Jensen and Anders Yeo, The minimum spanning strong subdigraph problem is fixed parameter tractable, *Discrete Applied Mathematics*, (2008) to appear available electronically.
 80. 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* to appear.
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89. 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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90. Jørgen Bang-Jensen and Bjarne Toft, Unsolved problems presented at the Julius Petersen Graph Theory Conference, *Discrete Mathematics* 101 (1992) 351-360.
91. 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.

Submitted papers

92. Jørgen Bang-Jensen and Yury Nikulin, Heuristics for the central tree problem, *Journal of Heuristics* (2008), submitted
93. Jørgen Bang-Jensen and Gregory Gutin, Out-branchings with Extremal number of leaves, Proceedings of ICDM 2008.

In preparation:

94. Jørgen Bang-Jensen, Marco Chiarandini, Jens Svalgaard Kohrt, Marco Pranzo and Jakob Skov, Heuristics for scheduling an anodizing plant, in preparation.
95. Jørgen Bang-Jensen and Jing Huang, decomposing locally semicomplete digraphs into spanning strong subdigraphs, in preparation.
96. Jørgen Bang-Jensen, Gary MacGillivray and Jacobus Swartz, The complexity of colouring by local tournaments.
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98. 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.
99. 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.
100. Jørgen Bang-Jensen, Luke O'Connor, Cycle coloring is NP-complete.
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