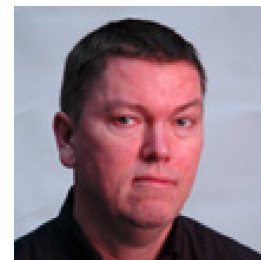


Jørgen Bang-Jensen
Department of Mathematics and Computer Science
Algorithms
Email: jbj@imada.sdu.dk
Phone: +4565502335



Education

High-school degree (student) from Svendborg Gymnasium 1979
Master degree in mathematics (minors in computer science and chemistry) from Odense University 1985.
Ph.D (Licentiate) from Odense University, May 1988.

Positions Held

Ph.D stipend from Odense University 1985 - 1988. Senior research Fellow at Department of Mathematics & Computer Science, Odense University 1988 - 1990.
Assistant professor at Department of Computer Science, University of Copenhagen 1990 - 1991.
Associate professor, Department of Mathematics and Computer Science, University of Southern Denmark (IMADA), 1991 - 2004.
Professor with special duties (collaboration with industry and public sector), IMADA, SDU 2004 -- 2009.
Professor in discrete optimization with applications at IMADA, SDU as of April 2009 -- present.

Research Interests

Discrete mathematics in particular graph theory, combinatorial optimization, algorithms, heuristics for combinatorial optimization problems, practical applications of combinatorial optimization (including routing problems, industrial packing, real-time scheduling and cutting problems, home care scheduling and nurse rostering)

Research management and funding

Leader of three SNF (now FNU) funded research projects in the period 1992-1996,

Leader of the departments research group involved in collaboration with industrial partners. This has resulted in external support totalling more than 2 million d.kr.

Together with 6 colleagues at IMADA I obtained a funding of 12 million d.kr from the Danish research council for funding of PhD students in the period 2010-2013.

Participant in the research project "Research activity in discrete mathematics", chief investigator, professor Carsten Thomassen, DTU. since 1989. The project has been supported by the Danish National Science Research Council since 1989. For the period 2007--2012 we received 7.4. million d.kr in support. A significant part of this funding was used on postdocs and PhD students under my supervision at IMADA.
For the period 2013-2017 we got 6.5 million d.kr which, among other things finances a PhD student at IMADA.

In 2009 I received funding (approximately 1 million. d.kr.) 24 months post doc positions from The Villum Kann Rasmussen foundation (block stipends). The last postdoc just finished in August 2012.

Currently PI of the DFF funded research project "Packing covering and partitions of digraphs" where I received 2.6 million d.kr for the years 2018-2023.

Supervised 13 postdocs from 1992 to 2012, currently supervising one postdoc.

Supervised 10 Ph.D students, including one industrial Ph.D student and currently supervising 1 Ph.-D student.

Research achievements

Danish doctoral degree in Natural Sciences from University of Southern Denmark, January 2002.

Author of more than 140 research publications, almost all of which are in journals. I have written joint papers with more than 60 different researchers.

Co-author of the book "Digraphs: Theory, Algorithms and Applications", Springer Verlag, London (2000) xxii+754pp. The first book ever to treat digraphs in a comprehensive way. The second, completely revised, edition 812 pp. was published

in December 2008.

The book now has more than 2500 citations according to Google Scholar.

Editor (and contributor with 3 chapters) of the Book "Classes of Directed Graphs", Springer Monographs in Mathematics, Springer Verlag, London (2018) xxii+636 pp.

Plenary speaker or invited speaker at conferences in Aussois, Bordeaux, Braunschweig, Budapest, Copenhagen, Dagstuhl, Elgersburg, Ilmenau, Louisville, Montreal, New York, Oberwolfach, Odense, Paris, Prague, Rostock, Strba, Vancouver and Victoria.

Invited professor and visiting professor for periods of up to 6 months at Universities and research institutions in Canada: (Vancouver and Victoria total time 21 months), France (Bordeaux, Grenoble, Paris, Montpellier and Sophia Antipolis. Total time 22 months), Sweden (Mittag-Leffler Institute 6 weeks) and UK (London 2 months).

External examiner on PhD or licentiate theses at Aalborg University, Aarhus University, University of Bordeaux, Lund University, Université Paris XI, Orsay, Polytechnical University of Grenoble, INRIA Sophia Antipolis, France, Tel-Aviv University, Technical University of Denmark and University of Copenhagen.

External examiner on HDR thesis at Université Montpellier 2, France.

External Examiner on German Habilitation Thesis at RWTH Aachen, Germany

Community service

Organizer or co-organizer of 15 international graph theory meetings in Denmark since 1992.

Referee for all major research journals publishing papers in graph theory and several conferences in algorithmics.

Reviewer of grant several grant applications for the research councils in France, Hong Kong and Slovenia.

Managing editor of Discrete Mathematics and Theoretical Computer Science.

Participated (in a number of cases as chair) in several hiring committees both in Mathematics and Computer Science for positions at all academic levels.

Technology transfer through collaboration with external partners

During the 5 year period 2004-2009 I was in charge of a group which collaborated with external partners on optimization problems. We collaborated with a number of companies and public organizations including:

Bang and Olufsen, Cabin Plant, Danfoam, DSB S-train, Grundfoss, JYSK, Lego, Odense University Hospital, Odense Municipality

Administrative experience (besides research administration)

Member of the department's board (called the management group from 2007) from 2003 to 2018.

Member of the study-board for data-technology 1993-1999 and the study-board for natural sciences 2002-2005 and 2012-2013.

Member of the departments teaching board several times. The last time from 2012-2014.

Member of several accreditation boards (computer science, applied mathematics, mathematics) of the department.

Publications

On the k-linkage problem for generalizations of semicomplete digraphs

Zhou, J., Bang-Jensen, J. & Yan, J., Feb 2026, In: Discrete Mathematics. 349, 2, 10 p., 114700.

Generalized paths and cycles in semicomplete multipartite digraphs

Bang-Jensen, J., Wang, Y. & Yeo, A., 31. Dec 2025, In: Discrete Applied Mathematics. 377, p. 459-479

Edge-arc-disjoint paths in semicomplete mixed graphs

Bang-Jensen, J. & Wang, Y., Apr 2025, In: Journal of Graph Theory. 108, 4, p. 705-721

Strong arc decompositions of split digraphs

Bang-Jensen, J. & Wang, Y., Jan 2025, In: Journal of Graph Theory. 108, 1, p. 5-26

Constrained flows in networks

Bang-Jensen, J., Bessy, S. & Picasarri-Arrieta, L., 27. Sept 2024, In: Theoretical Computer Science. 1010, 114702.

Arc-disjoint out- and in-branchings in compositions of digraphs

Bang-Jensen, J. & Wang, Y., Aug 2024, In: European Journal of Combinatorics. 120, 28 p., 103981.

Arc-disjoint out-branchings and in-branchings in semicomplete digraphs

Bang-Jensen, J. & Wang, Y., May 2024, In: Journal of Graph Theory. 106, 1, p. 182-197

Safe sets and in-dominating sets in digraphs

Bai, Y., Bang-Jensen, J., Fujita, S., Ono, H. & Yeo, A., 31. Mar 2024, In: Discrete Applied Mathematics. 346, p. 215-227
13 p.

Complexity of (arc)-connectivity problems involving arc-reversals or deorientations

Bang-Jensen, J., Hörsch, F. & Kriesell, M., 21. Sept 2023, In: Theoretical Computer Science. 973, 21 p., 114097.

A Parameterized Algorithm for Vertex Connectivity Survivable Network Design Problem with Uniform Demands

Bang-Jensen, J., Klinkby, K. V., Misra, P. & Saurabh, S., Sept 2023, *31st Annual European Symposium on Algorithms, ESA 2023*. Li Gortz, I., Farach-Colton, M., Puglisi, S. J. & Herman, G. (eds.). Schloss Dagstuhl- Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, 15 p. 13. (Leibniz International Proceedings in Informatics, Vol. 274).

Making a tournament k -strong

Bang-Jensen, J., Johansen, K. S. & Yeo, A., May 2023, In: Journal of Graph Theory. 103, 1, p. 5-11

The complexity of finding low chromatic spanning sub(di)graphs with prescribed connectivity properties

Bang-Jensen, J. & Yeo, A., 9. Mar 2023, In: Theoretical Computer Science. 949, 15 p., 113758.

Spanning eulerian subdigraphs in semicomplete digraphs

Bang-Jensen, J., Havet, F. & Yeo, A., Mar 2023, In: Journal of Graph Theory. 102, 3, p. 578-606

Non-separating spanning trees and out-branchings in digraphs of independence number 2

Bang-Jensen, J., Bessy, S. & Yeo, A., Dec 2022, In: Graphs and Combinatorics. 38, 6, 187.

Complexity of some arc-partition problems for digraphs

Bang-Jensen, J., Bessy, S., Gonçalves, D. & Picasarri-Arrieta, L., 3. Sept 2022, In: Theoretical Computer Science. 928, p. 167-182

Component order connectivity in directed graphs

Bang-Jensen, J., Eiben, E., Gutin, G., Wahlström, M. & Yeo, A., Sept 2022, In: Algorithmica. 84, 9, p. 2767-2784

Good acyclic orientations of 4-regular 4-connected graphs

Bang-Jensen, J. & Kriesell, M., Aug 2022, In: Journal of Graph Theory. 100, 4, p. 698-720

Arc-disjoint in- and out-branchings in digraphs of independence number at most 2

Bang-Jensen, J., Bessy, S., Havet, F. & Yeo, A., Jun 2022, In: Journal of Graph Theory. 100, 2, p. 294-314

Low chromatic spanning sub(di)graphs with prescribed degree or connectivity properties

Bang-Jensen, J., Havet, F., Kriesell, M. & Yeo, A., Apr 2022, In: Journal of Graph Theory. 99, 4, p. 615-636

Digraphs and variable degeneracy

Bang-Jensen, J., Schweser, T. & Stiebitz, M., 2022, In: SIAM Journal on Discrete Mathematics. 36, 1, p. 578-595

Every $(13k-6)$ -strong tournament with minimum out-degree at least $28k-13$ is k -linked

Bang-Jensen, J. & Skov Johansen, K., 2022, In: Discrete Mathematics. 345, 6, 4 p., 112831.

On Supereulerian 2-Edge-Coloured Graphs

Bang-Jensen, J., Bellitto, T. & Yeo, A., Nov 2021, In: Graphs and Combinatorics. 37, 6, p. 2601-2620

K -distinct branchings admits a polynomial kernel

Bang-Jensen, J., Klinkby, K. V. & Saurabh, S., Sept 2021, *29th Annual European Symposium on Algorithms, ESA 2021*. Mutzel, P., Pagh, R. & Herman, G. (eds.). Schloss Dagstuhl- Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, 15 p. 11. (Leibniz International Proceedings in Informatics, Vol. 204).

Good orientations of unions of edge-disjoint spanning trees

Bang-Jensen, J., Bessy, S., Huang, J. & Kriesell, M., Mar 2021, In: Journal of Graph Theory. 96, 4, p. 594-618

Proper-walk connection number of graphs

Bang-Jensen, J., Bellitto, T. & Yeo, A., Jan 2021, In: Journal of Graph Theory. 96, 1 - Special Issue: Ron Graham, p. 137-159

On the parameterized complexity of 2-partitions

Andersen, J. B., Bang-Jensen, J. & Yeo, A., 6. Dec 2020, In: Theoretical Computer Science. 844, p. 97-105

Component order connectivity in directed graphs

Bang-Jensen, J., Eiben, E., Gutin, G., Wahlström, M. & Yeo, A., Dec 2020, *15th International Symposium on Parameterized and Exact Computation, IPEC 2020*. Cao, Y. & Pilipczuk, M. (eds.). Schloss Dagstuhl- Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, 16 p. 2. (Leibniz International Proceedings in Informatics, Vol. 180).

Spanning eulerian subdigraphs avoiding k prescribed arcs in tournaments

Bang-Jensen, J., Déprés, H. & Yeo, A., Dec 2020, In: Discrete Mathematics. 343, 12, 7 p., 112129.

Arc-disjoint strong spanning subdigraphs of semicomplete compositions

Bang-Jensen, J., Gutin, G. & Yeo, A., Oct 2020, In: Journal of Graph Theory. 95, 2, p. 267-289

On DP-coloring of digraphs

Bang-Jensen, J., Bellitto, T., Schweser, T. & Stiebitz, M., Sept 2020, In: Journal of Graph Theory. 95, 1, p. 76-98

The directed 2-linkage problem with length constraints

Bang-Jensen, J., Bellitto, T., Lochet, W. & Yeo, A., 24. Apr 2020, In: Theoretical Computer Science. 814, p. 69-73

Hajós and ore constructions for digraphs

Bang-Jensen, J., Bellitto, T., Schweser, T. & Stiebitz, M., 20. Mar 2020, In: The Electronic Journal of Combinatorics. 27, 1, 22 p., P1.63.

Out-colourings of digraphs

Alon, N., Bang-Jensen, J. & Bessy, S., 2020, In: Journal of Graph Theory. 93, 1, p. 88-112 25 p.

The parameterized complexity landscape of finding 2-partitions of digraphs

Bang-Jensen, J., Knudsen, K. V. K., Saurabh, S. & Zehavi, M., 26. Nov 2019, In: Theoretical Computer Science. 795, p. 108-114 7 p.

Bipartite spanning sub(di)graphs induced by 2-partitions

Bang-Jensen, J., Bessy, S., Havet, F. & Yeo, A., Oct 2019, In: Journal of Graph Theory. 92, 2, p. 130-151

Degree-constrained 2-partitions of graphs

Bang-Jensen, J. & Bessy, S., 12. Jul 2019, In: Theoretical Computer Science. 776, p. 64-74 11 p.

χ -bounded families of oriented graphs

Aboulker, P., Bang-Jensen, J., Bousquet, N., Charbit, P., Havet, F., Maffray, F. & Zamora, J., Nov 2018, In: Journal of Graph Theory. 89, 3, p. 304-326

Degree constrained 2-partitions of semicomplete digraphs

Bang-Jensen, J. & Christiansen, T. M., 25. Oct 2018, In: Theoretical Computer Science. 746, p. 112-123

Branching in digraphs with many and few leaves: Structural and algorithmic results

Bang-Jensen, J. & Gutin, G., Sept 2018, *Optimization Problems in Graph Theory: In Honor of Gregory Z. Gutin's 60th Birthday*. Goldengorin, B. (ed.). Springer, p. 93-106 (Springer Optimization and Its Applications, Vol. 139).

Basic terminology, notation and results

Bang-Jensen, J. & Gutin, G., 2018, *Classes of Directed Graphs*. Bang-Jensen, J. & Gutin, G. (eds.). Springer, 34 p. (Springer Monographs in Mathematics).

Classes of Directed Graphs

Bang-Jensen, J. (Editor) & Gutin, G. (Editor), 2018, Springer. 636 p. (Springer Monographs in Mathematics).

Completing orientations of partially oriented graphs

Bang-Jensen, J., Huang, J. & Zhu, X., 2018, In: Journal of Graph Theory. 87, 3, p. 285-304

Locally semicomplete digraphs and generalizations

Bang-Jensen, J., 2018, *Classes of Directed Graphs*. Bang-Jensen, J. & Gutin, G. (eds.). Springer, p. 245-296 (Springer Monographs in Mathematics).

Out-degree reducing partitions of digraphs

Bang-Jensen, J., Yeo, A., Bessy, S. & Havet, F., 2018, In: Theoretical Computer Science. 719, p. 64-72

Parameterized Algorithms for Survivable Network Design with Uniform Demands

Bang-Jensen, J., Klinkby Knudsen, K. V., Saurabh, S., Basavaraju, M., Misra, P., Zehavi, M. & Ramanujan, M. S., 2018, *Proceedings of the Twenty-Ninth Annual ACM-SIAM Symposium on Discrete Algorithms*. Czumaj, A. (ed.). Association for Computing Machinery, p. 2838-2850

Tournaments and Semicomplete Digraphs

Bang-Jensen, J. & Havet, F., 2018, *Classes of Directed Graphs*. Bang-Jensen, J. & Gutin, G. (eds.). Springer, p. 35-124 (Springer Monographs in Mathematics).

Antistrong Digraphs

Bang-Jensen, J., Bessy, S., Jackson, B. & Kriesell, M., 2017, In: Journal of Combinatorial Theory, Series B. 122, p. 68-90

Disjoint paths in decomposable digraphs

Bang-Jensen, J., Christiansen, T. M. & Maddaloni, A., 2017, In: Journal of Graph Theory. 85, 2, p. 545-567

The complexity of finding arc-disjoint branching flows

Bang-Jensen, J., Havet, F. & Yeo, A., 20. Aug 2016, In: Discrete Applied Mathematics. 209, C, p. 16-26

Algorithms and kernels for feedback set problems in generalizations of tournaments

Bang-Jensen, J., Maddaloni, A. & Saurabh, S., 2016, In: *Algorithmica*. 76, 2, p. 320-343

Arc-disjoint directed and undirected cycles in digraphs

Bang-Jensen, J., Kriesell, M., Maddaloni, A. & Simonsen, S., 2016, In: *Journal of Graph Theory*. 83, 4, p. 406-420

DAG-Width and Circumference of Digraphs

Bang-Jensen, J. & Larsen, T. M., 2016, In: *Journal of Graph Theory*. 82, 2, p. 194-206

Finding good 2-partitions of digraphs I. Hereditary properties

Bang-Jensen, J. & Havet, F., 2016, In: *Theoretical Computer Science*. 636, C, p. 85-94

Finding good 2-partitions of digraphs II. Enumerable properties

Bang-Jensen, J., Cohen, N. & Havet, F., 2016, In: *Theoretical Computer Science*. 640, p. 1-19

Parameterized Algorithms for Non-separating Trees and Branchings in Digraphs

Bang-Jensen, J., Saurabh, S. & Simonsen, S., 2016, In: *Algorithmica*. 76, 1, p. 279-296

Balanced branchings in digraphs

Bang-Jensen, J. & Yeo, A., 2015, In: *Theoretical Computer Science*. 595, August, p. 107-119

Cycle Transversals in Tournaments with Few Vertex Disjoint Cycles

Bang-Jensen, J. & Bessy, S., 2015, In: *Journal of Graph Theory*. 79, 4, p. 249-266 17 p.

Finding a subdivision of a digraph

Bang-Jensen, J., Havet, F. & Maia, A. K., 2015, In: *Theoretical Computer Science*. 562, p. 283-303

Restricted cycle factors and arc-decompositions of digraphs

Bang-Jensen, J. & Casselgren, C. J., 2015, In: *Discrete Applied Mathematics*. 193, 1 October, p. 80-93

Sufficient Conditions for a Digraph to be Supereulerian

Bang-Jensen, J. & Maddaloni, A., 2015, In: *Journal of Graph Theory*. 79, 1, p. 8-20 13 p.

Vertex coloring edge-weighted digraphs

Bang-Jensen, J. & Halldorsson, M. M., 2015, In: *Information Processing Letters*. 115, 10, p. 791-796 6 p.

(Arc-)disjoint flows in networks

Bang-Jensen, J. & Bessy, S., 20. Mar 2014, In: *Theoretical Computer Science*. 526, p. 28-40

Arc-Disjoint In- and Out-Branchings With the Same Root in Locally Semicomplete Digraphs

Bang-Jensen, J. & Huang, J., 2014, In: *Journal of Graph Theory*. 77, 4, p. 278-298

Arc-disjoint paths in decomposable digraphs

Bang-Jensen, J. & Maddaloni, A., 2014, In: *Journal of Graph Theory*. 77, 2, p. 89-110 22 p.

Disjoint 3-Cycles in Tournaments: A Proof of The Bermond-Thomassen Conjecture for Tournaments

Bang-Jensen, J., Bessy, S. & Thomassé, S., 2014, In: *Journal of Graph Theory*. 75, 3, p. 284-302

The complexity of multicut and mixed multicut problems in (di)graphs

Bang-Jensen, J. & Yeo, A., 2014, In: *Theoretical Computer Science*. 520, p. 87-96

Vertex-disjoint directed and undirected cycles in general digraphs

Bang-Jensen, J., Kriesell, M., Maddaloni, A. & Simonsen, S., 2014, In: Journal of Combinatorial Theory, Series B. 106, 1, p. 1-14

Arc-disjoint paths and trees in 2-regular digraphs

Bang-Jensen, J. & Simonsen, S., 2013, In: Discrete Applied Mathematics. 161, 16-17, p. 2724-2730 7 p.

Partitioning the arcs of a digraph into a star forest of the underlying graph with prescribed orientation properties

Bang-Jensen, J., Yeo, A. & Goncalves, D., 2013, In: Theoretical Computer Science. 475, March, p. 13-20

Quasi-hamiltonian paths in semicomplete multipartite digraphs

Bang-Jensen, J., Maddaloni, A. & Simonsen, S., 2013, In: Discrete Applied Mathematics. 161, 7-8, p. 889–898 10 p.

Graph Theory - Dedicated to Carsten Thomassen on his 60th birthday

Andersen, L. D. (Editor), Bang-Jensen, J. (Editor), Chiarandini, M. (Editor), Jensen, T. (Editor), Jørgensen, L. K. (Editor), Kriesell, M. (Editor), Pedersen, A. S. (Editor) & Toft, B. (Editor), 1. Nov 2012, In: Discrete Mathematics. 310, 10, p. 2571-2768

Arc-disjoint spanning sub(di)graphs in digraph

Bang-Jensen, J. & Yeo, A., 2012, In: Theoretical Computer Science. 438, p. 48-54 7 p.

Decomposing locally semicomplete digraphs into strong spanning subdigraphs

Bang-Jensen, J. & Huang, J., 2012, In: Journal of Combinatorial Theory, Series B. 102, 3, p. 701-714 14 p.

Efficient algorithms for real-life instances of the variable size bin packing problem

Bang-Jensen, J. & Larsen, R., 2012, In: Computers & Operations Research. 39, 11, p. 2848-2857 10 p.

Finding an induced subdivision of a digraph

Bang-Jensen, J., Havet, F. & Trotignon, N., 2012, In: Theoretical Computer Science. 443, p. 10-24 15 p.

A graph theoretic proof of the complexity of colouring by a local tournament with at least two directed cycles

Bang-Jensen, J., MacGillivray, G. & Swartz, J., 2011, In: Contributions to Discrete Mathematics. 6, 2, p. 101-141

Finding an induced subdivision of a digraph

Bang-Jensen, J., Havet, F. & Trotignon, N., 2011, In: Electronic Notes in Discrete Mathematics. 37, p. 9-14

On the problem of finding disjoint cycles and dicycles in a digraph

Bang-Jensen, J. & Kriesell, M., 2011, In: Combinatorica. 31, 6, p. 639-668 30 p.

The complexity of colouring by locally semicomplete digraphs

Bang-Jensen, J., MacGillivray, G. & Swartz, J., Oct 2010, In: Discrete Mathematics. 310, 20, p. 2675–2684

A computational investigation of heuristic algorithms for 2-edge-connectivity augmentation

Bang-Jensen, J., Chiarandini, M. & Morling, P., Jul 2010, In: Networks (New York). 55, 4, p. 299-325

Heuristics for the central tree problem

Bang-Jensen, J. & Nikulin, Y., 2010, In: Journal of Heuristics. 16, 5, p. 633-651

Out-branchings with extremal number of leaves

Bang-Jensen, J. & Gutin, G., 2010, In: RMS-Lecture Notes Series. 13, p. 91-99 9 p.

Spanning 2-strong tournaments in 3-strong semicomplete

Bang-Jensen, J., 2010, In: *Discrete Mathematics*. 310, 9, p. 1424–1428 5 p.

Digraphs: Theory, Algorithms and Applications

Bang-Jensen, J. & Gutin, G., 2009, 2. ed. London: Springer. 820 p. (Springer Monographs in Mathematics).

Disjoint directed and undirected paths and cycles in digraphs

Bang-Jensen, J. & Kriesell, M., 2009, In: *Theoretical Computer Science*. 410, 47-49, p. 5138-5144 7 p.

Disjoint sub(di)graphs in digraphs

Bang-Jensen, J. & Kriesell, M., 2009, In: *Electronic Notes in Discrete Mathematics*. 34, p. 179-183 5 p.

K-strong local tournaments in locally semicomplete digraphs

Bang-Jensen, J., 2009, In: *Discrete Applied Mathematics*. 157, 11, p. 2536-2540 5 p.

Problems and conjectures concerning connectivity, paths, trees and cycles in tournament-like digraphs

Bang-Jensen, J., 2009, In: *Discrete Mathematics*. 309, 18, p. 5655-5667 13 p.

Minimum cycle factors in quasi-transitive digraphs

Bang-Jensen, J. & Nielsen, M. H., 2008, In: *Discrete Optimization*. 5, p. 121-137 17 p.

On persistent directed graphs

Bang-Jensen, J. & Jordan, T., 2008, In: *Networks (New York)*. 52, p. 271-276

The minimum spanning strong subdigraph problem is fixed parameter tractable

Bang-Jensen, J. & Yeo, A., 2008, In: *Discrete Applied Mathematics*. 56, p. 2924-2929

A computational investigation on heuristic algorithms for 2-edge-connectivity augmentation

Bang-Jensen, J., Chiarandini, M. & Morling, P., 2007.

Finding well-balanced pairs of edge-disjoint trees in edge-weighted graphs

Bang-Jensen, J., Gonçalves, D. & Gørtz, I. L., 2007, In: *Discrete Optimization*. 4, p. 334–348 15 p.

Mixed models for the analysis of local search components

Bang-Jensen, J., Chiarandini, M., Goegebeur, Y. & Jørgensen, B., 2007, In: *Lecture Notes in Computer Science*. 4638, p. 91-105 15 p.

Recognizing and representing proper interval graphs in parallel using merging and sorting

Bang-Jensen, J., Huang, J. & Ibarra, L., 2007, In: *Discrete Applied Mathematics*. 155, 04, p. 442-456 15 p.

Finding cheapest cycles in vertex-weighted quasi-transitive and extended semicomplete digraphs

Bang-Jensen, J., Gutin, G. & Yeo, A., 2006, In: *Discrete Optimization*. 3, 1, p. 86-94 9 p.

Longest path partitions in generalizations of tournaments

Bang-Jensen, J., Nielsen, M. H. & Yeo, A., 2006, In: *Discrete Mathematics*. 306, 16, p. 1830-1839 10 p.

On six problems posed by Jarik Nesetril

Bang-Jensen, J., Reed, B., Schacht, M., Sámal, R., Toft, B. & Wagner, U., 2006, *Topics in discrete mathematics*. Berlin: Springer Science+Business Media, p. 613-627 15 p.

Finding complementary cycles in locally semicomplete digraphs

Bang-Jensen, J. & Nielsen, M. H., 2005, In: Discrete Applied Mathematics. 146, p. 245-256

Decomposing k -arc-strong tournaments into strong spanning subdigraphs.

Bang-Jensen, J. & Yeo, A., 2004, In: Combinatorica. 24, p. 331-349

Making a tournament k -arc-strong by reversing or deorienting arcs

Bang-Jensen, J. & Yeo, A., 2004, In: Discrete Applied Mathematics. 136, p. 161-171

Problems and Conjectures concerning connectivity of tournaments

Bang-Jensen, J. (Editor), 2004, *Proceedings of the tenth Midsummer combinatorial workshop in Prague: KAM-DIMATIA series in Discrete Mathematics-Combinatorics-Operations Research-Optimization*. p. 15-19

Spanning k -arc-strong subdigraphs with few arcs in k -arcstrong tournaments.

Bang-Jensen, J., Huang, J. & Yeo, A., 2004, In: Journal of Graph Theory. 46, p. 265-284

Splitting off edges between two subsets preserving the edgeconnectivity of the graph.

Bang-Jensen, J. & Jordán, T. (Editor), 2004, In: Discrete Mathematics. 276, p. 5-28

Subgraphs in vertex neighborhoods of K -free graphs

Bang-Jensen, J. & Brandt, S., 2004, In: Journal of Graph Theory. 47, 1, p. 29-38 10 p.

The structure of strong arc-locally semicomplete digraphs.

Bang-Jensen, J., 2004, In: Discrete Mathematics. 283, p. 1-6

When the greedy algorithm fails.

Bang-Jensen, J., Gutin, G. & Yeo, A., 2004, In: Discrete Optimization. 1, p. 121-127

Highly connected hypergraphs containing no two edge-disjoint spanning connected subhypergraphs

Bang-Jensen, J. & Thomassé, S., 2003, In: Discrete Applied Mathematics. 131, p. 555-9

Small degree out-branchings

Bang-Jensen, J., Thomassé, S. & Yeo, A., 2003, In: Journal of Graph Theory. 42(4), p. 297-307

Steiner type problems for digraphs that are locally semicomplete or extended semicomplete

Bang-Jensen, J., Gutin, G. & Yeo, A., 2003, In: Journal of Graph Theory. 44(3), p. 191-207

Strongly connected spanning subdigraphs with the minimum number of arcs in quasi-transitive digraphs

Bang-Jensen, J., Huang, J. & Yeo, A., 2003, In: SIAM Journal on Discrete Mathematics. 16(2), p. 335-43

Convex-round graphs are circular-perfect

Bang-Jensen, J. & Huang, J., 2002, In: Journal of Graph Theory. 40, 3, p. 182-94

Digrap: Theory and Algorithms

Bang-Jensen, J., 2002

The Minimum Spanning Strong Subdigraph Problem for Extended Semicomplete Digraphs and Semicomplete Bipartite Digraphs

Bang-Jensen, J. & Yeo, A., Oct 2001, In: Journal of Algorithms. 41, 1, p. 1-19

Making a tournament k -arc-strong by reversing Arcs

Bang-Jensen, J. & Yeo, A., 2001, In: Electronic Notes in Discrete Mathematics. 8, p. 2-5

Complementary cycles containing prescribed vertices in tournaments

Bang-Jensen, J., Guo, Y. & Yeo, A., 2000, In: *Discrete Mathematics*. 214, p. 77-8

Convex-round and concave-round graphs

Bang-Jensen, J., Huang, J. & Yeo, A., 2000, In: *SIAM Journal on Discrete Mathematics*. 13, p. 179-9

Digraphs. Theory, algorithms and applications

Bang-Jensen, J. & Gutin, G., 2000, London: Springer Science+Business Media.

Problems concerning global connectivity of directed graphs

Bang-Jensen, J., 2000, In: *Electronic Notes in Discrete Mathematics*. 5, p. 4

Splitting off edges within a specified subset preserving the edge-connectivity of the graph

Bang-Jensen, J. & Jordán, T., 2000, In: *Journal of Algorithms*. 37, p. 326-4

A new sufficient condition for a digraph to be Hamiltonian

Bang-Jensen, J., Guo, Y. & Yeo, A., 1999, In: *Discrete Applied Mathematics*. 95, p. 61-72

A note on vertex pancyclic oriented graphs

Bang-Jensen, J. & Guo, Y., 1999, In: *Journal of Graph Theory*. 31, p. 313-318

Augmenting hypergraphs by edges of size two

Bang-Jensen, J. & Jackson, B., 1999, In: *Mathematical Programming*. 84, p. 467-481

Edgeconnectivity augmentation with partition constraints

Bang-Jensen, J., Gabow, H., Szigeti, Z. & Jordán, T., 1999, In: *SIAM Journal on Discrete Mathematics*. 12, p. 160-207

Linkages in locally semicomplete digraphs and quasi-transitive digraphs

Bang-Jensen, J., 1999, In: *Discrete Mathematics*. 196, p. 13-27

On the complexity of Hamiltonian path and cycle problems in certain classes of digraphs

Bang-Jensen, J. & Gutin, G., 1999, In: *Discrete Applied Mathematics*. 95, p. 41-60

Adding and reversing arcs in semicomplete digraphs

Bang-Jensen, J. & Jordan, T., 1998, In: *Combinatorics, Probability and Computing*. 7, p. 17-25 9 p.

Alternating cycles and trails in 2-edge-coloured complete multigraphs

Bang-Jensen, J. & Gutin, G., 1998, In: *Discrete Mathematics*. 188, p. 61-72 12 p.

A polynomial algorithm for the Hamiltonian cycle problem in semicomplete multipartite digraphs

Bang-Jensen, J., Gutin, G. & Yeo, A., 1998, In: *Journal of Graph Theory*. 29, 2, p. 111-132

Edge-connectivity augmentation preserving simplicity

Bang-Jensen, J. & Jordan, T., 1998, In: *SIAM Journal on Discrete Mathematics*. 11, p. 603-623 21 p.

Edge-connectivity augmentation with partition constraints

Bang-Jensen, J., Gabow, H. N., Jordan, T. & Szigeti, Z., 1998, *Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms*. Society for Industrial and Applied Mathematics, p. 306-315

Generalizations of tournaments: A survey

Bang-Jensen, J. & Gutin, G., 1998, In: Journal of Graph Theory. 28, p. 171-202 32 p.

Kings in Quasi-transitive digraphs

Bang-Jensen, J. & Huang, J., 1998, In: Discrete Mathematics. 185, p. 19-27 9 p.

Properly coloured Hamiltonian paths in edge-coloured complete graphs

Bang-Jensen, J., Gutin, G. & Yeo, A., 1998, In: Discrete Applied Mathematics. 82, p. 247-250 4 p.

A classification of locally semicomplete digraphs

Bang-Jensen, J., Gutin, G., Volkmann, L. & Guo, Y., 1997, In: Discrete Mathematics. 167/168, p. 99-112 14 p.

Alternating cycles and paths in edge-coloured multigraphs

Bang-Jensen, J. & Gutin, G., 1997, In: Discrete Mathematics. 165/166, p. 39-60 22 p.

Edge-connectivity augmentation preserving simplicity

Bang-Jensen, J. & Jordan, T., 1997, In: IEEE Foundations of Computer Science. 38, p. 486-495 10 p.

Hamiltonian cycles avoiding all arcs in prescribed cliques in tournaments

Bang-Jensen, J., Gutin, G. & Yeo, A., 1997, In: Combinatorics, Probability and Computing. 6, p. 255-261 7 p.

Parallel algorithms for the hamiltonian cycle and hamiltonian path problems in semicomplete bipartite digraphs

Bang-Jensen, J., Przytycka, T., Manoussakis, Y. & El Haddad, M., 1997, In: Algorithmica. 17, p. 67-87 21 p.

Paths and cycles in extended and decomposable digraphs

Bang-Jensen, J. & Gutin, G., 1997, In: Discrete Mathematics. 164, p. 5-19 15 p.

Vertex heaviest paths and cycles in quasi-transitive digraphs

Bang-Jensen, J. & Gutin, G., 1997, In: Discrete Mathematics. 163, 1-3, p. 217--223 7 p.

On k-strong and k-cyclic digraphs

Bang-Jensen, J., Gutin, G. & Yeo, A., 25. Dec 1996, In: Discrete Mathematics. 162, 1-3, p. 1-11

A sufficient condition for a semicomplete multipartite digraph to be Hamiltonian

Bang-Jensen, J., Gutin, G. & Huang, J., 5. Dec 1996, In: Discrete Mathematics. 161, 1-3, p. 1-12

Weakly Hamiltonian-Connected Locally Semicomplete Digraphs

Bang-Jensen, J., Guo, Y. & Volkmann, L., Feb 1996, In: Journal of Graph Theory. 21, 2, p. 163-172

Sufficient conditions for a digraph to be Hamiltonian

Bang-Jensen, J., Gutin, G. & Li, H., 1996, In: Journal of Graph Theory. 22, 2, p. 181-187

Digraphs with the path-merging property

Bang-Jensen, J., 1995, In: Journal of Graph Theory. 20, 2, p. 255-265

Hereditarily hard H-colouring problems

Bang-Jensen, J., Hell, P. & MacGillivray, G., 1995, In: Discrete Mathematics. 138, 1-3, p. 75-92

Weakly Hamiltonian-connected ordinary multipartite tournaments

Bang-Jensen, J., Gutin, G. & Huang, J., 1995, In: Discrete Mathematics. 138, 1-3, p. 63-74

Weakly hamiltonian-connected vertices in bipartite tournaments

Bang-Jensen, J. & Manoussakis, Y., 1995, In: Journal of Combinatorial Theory, Series B. 63, 2, p. 261-280

Cycles through k vertices in bipartite tournaments

Bang-Jensen, J. & Manoussakis, Y., 1994, In: Combinatorica. 14, p. 243–246

On chordal proper circular arc graphs

Bang-Jensen, J. & Hell, P., 1994, In: Discrete Mathematics. 128, 1-3, p. 395-398

Fast algorithms for finding Hamiltonian paths and cycles in in-tournament digraphs

Bang-Jensen, J. & Hell, P., 1993, In: Discrete Applied Mathematics. 41, 1, p. 75-79

A polynomial algorithm for hamiltonian-connectedness in semicomplete digraphs

Bang-Jensen, J., Manoussakis, Y. & Thomassen, C., 1992, In: Journal of Algorithms. 13, 1, p. 114-127

On the complexity of colouring by superdigraphs of bipartite graphs

Bang-Jensen, J., Hell, P. & MacGillivray, G., 1992, In: Discrete Mathematics. 109, 1-3, p. 27-44

On the structure of locally semicomplete digraphs

Bang-Jensen, J., 1992, In: Discrete Mathematics. 100, 1-3, p. 243-265

Unsolved problems presented at the Julius Petersen Graph Theory Conference

Bang-Jensen, J. & Toft, B., 1992, In: Discrete Mathematics. 101, 1-3, p. 351-360

Edge-disjoint in- and out-branchings in tournaments and related path problems

Bang-Jensen, J., 1991, In: Journal of Combinatorial Theory, Series B. 51, 1

The effect of two cycles on the complexity of colourings by directed graphs

Bang-Jensen, J. & Hell, P., Jan 1990, In: Discrete Applied Mathematics. 26, 1

Locally semicomplete digraphs: A generalization of tournaments

Bang-Jensen, J., 1990, In: Journal of Graph Theory. 14, 3, p. 371-390

Local tournaments and proper circular arc graphs

Hell, P., Bang-Jensen, J. & Huang, J., 1990, *International Symposium on Algorithms: SIGAL 1990*. Springer, p. 101-108

On the 2-Linkage Problem for Semicomplete Digraphs

Bang-Jensen, J., 1988, In: Annals of Discrete Mathematics. 41, p. 23-37

The Complexity of Colouring by Semicomplete Digraphs

Bang-Jensen, J., Hell, P. & MacGillivray, G., 1988, In: SIAM Journal on Discrete Mathematics. 1, 3, p. 281–298

| | |
|------|----------------------------|
| 2015 | Lorem ipsum dolor sit amet |
| 2014 | Lorem ipsum dolor sit amet |
| 2013 | Lorem ipsum dolor sit amet |
| 2012 | Lorem ipsum dolor sit amet |
| 2011 | Lorem ipsum dolor sit amet |
| 2010 | Lorem ipsum dolor sit amet |