

Books/Chapters

5. Dirk Briskorn, “Auktionen in logistischen Systemen”, In: D. Arnold, H. Isermann, A. Kuhn, H. Tempelmeier, K. Furmans (eds.): Handbuch Logistik. 4th edition, Springer Berlin Heidelberg, to appear.
4. Dirk Briskorn, Sönke Hartmann (2015), “Anwendungen des Resource-Constrained Project Scheduling Problem in der Produktionsplanung”, In: T. Claus, F. Hermann, M. Manitz (eds.): Produktionsplanung und -steuerung – Forschungsansätze, Methoden und deren Anwendungen. Springer Berlin Heidelberg, 2015, pp 109-130.
3. Dirk Briskorn, Andreas Drexel (2015), “A branch-and-price algorithm for scheduling sport leagues”, In: M. Wright (ed.): Operational Research Applied to Sports. Palgrave Macmillan, 2015, pp 201-223.
2. Dirk Briskorn (2008), “Sports Leagues Scheduling - Models, Combinatorial Properties, and Optimization Algorithms”, Lecture Notes in Economics and Mathematical Systems, Vol. 603. Springer, Berlin.
1. Dirk Briskorn, Andreas Drexel, Sönke Hartmann (2007), “Inventory based Dispatching of Automated Guided Vehicles on Container Terminals”, In: K.H. Kim, H.-O. Günther (eds.), Container Terminals and Cargo Systems. Springer, 2007, pp 195-214.

Refereed Journals

57. Felix Weidinger, Nils Boysen, Dirk Briskorn, “Storage assignment with rack-moving mobile robots in KIVA warehouses”, *Transportation Science*, to appear.
56. Nils Boysen, Dirk Briskorn, Stefan Schwerdfeger (2018), “The identical-path truck platooning problem”, *Transportation Research Part B*, Vol. 109, pp 26-39.
55. Dirk Briskorn, Michael Dienstknecht (2018), “Survey of quantitative methods in construction”, *Computers & Operations Research*, Vol. 92, pp 194-207.
54. Jenny Nossack, Dirk Briskorn, Erwin Pesch, “Container Dispatching and Conflict-Free Yard Crane Routing in an Automated Container Terminal”, *Transportation Science*, to appear.
53. Stefan Schwerdfeger, Nils Boysen, Dirk Briskorn (2018), “Just-in-time logistics for far-distant suppliers: Scheduling truck departures from an intermediate cross docking terminal”, *OR Spectrum*, Vol. 40, No. 1, pp 1-21.
52. Nils Boysen, Dirk Briskorn, Simon Emde (2018), “Scheduling electric vehicles and locating charging stations on a path”, *Journal of Scheduling*, Vol. 21, No. 1, pp 111-126.
51. Nils Boysen, Dirk Briskorn, Simon Emde (2017), “Parts-to-picker based order processing in a rack-moving mobile robots environment”, *European Journal of Operational Research*, Vol. 262, No. 2, pp 550-562.

50. Stefan Waldherr, Sigrid Knust, Dirk Briskorn (2017), “Synchronous flow shop problems: How much can we gain by leaving machines idle?”, *Omega*, Vol. 72, pp 15-24.
49. Liliana Grigoriu, Dirk Briskorn (2017), “Scheduling jobs and maintenance activities subject to job-dependent machine deteriorations”, *Journal of Scheduling*, Vol. 20, No. 2, pp 183-197.
48. Nils Boysen, Dirk Briskorn, Simon Emde (2017), “Sequencing of picking orders in mobile rack warehouses”, *European Journal of Operational Research*, Vol. 259, No. 1, pp 293-307.
47. Dirk Briskorn, Simon Emde, Nils Boysen (2017), “Scheduling shipments in closed-loop sortation conveyors”, *Journal of Scheduling*, Vol. 20, No. 1, pp 25-42.
46. Nils Boysen, Dirk Briskorn, Frank Meisel (2017), “A generalized classification scheme for crane scheduling with interference”, *European Journal of Operational Research*, Vol. 258, No. 1, pp 343-357.
45. David Boywitz, Nils Boysen, Dirk Briskorn (2016), “Resequencing with parallel queues to minimize the maximum number of items in the overflow area”, *Naval Research Logistics*, Vol. 63, No. 5, pp 401-415.
44. Dirk Briskorn, Simon Emde, Nils Boysen (2016), “Cooperative twin-crane scheduling”, *Discrete Applied Mathematics*, *Discrete Applied Mathematics*, Vol. 211, pp 40-57.
43. Dirk Briskorn, Philipp Zeise, Josef Packowski (2016), “Quasi-Fixed Cyclic Production Schemes for Multiple Products with Stochastic Demand”, *European Journal of Operational Research*, Vol. 252, No. 1, pp 156-169.
42. Dirk Briskorn, Kurt Jørnsten, Jenny Nossack (2016), “Pricing Combinatorial Auctions by a Set of Linear Price Vectors”, *OR Spectrum*, Vol. 38, No. 4, pp 1043-1070.
41. Ward Passchyn, Sofie Coene, Dirk Briskorn, Johann L. Hurink, Frits C.R. Spieksma, Greet Vanden Berghe (2016), “The lockmaster’s problem”, *European Journal of Operational Research*, Vol. 251, No. 2, pp 432-441.
40. Dirk Briskorn, Kurt Jørnsten, Philipp Zeise (2016), “A pricing scheme for combinatorial auctions based on bundle sizes”, *Computers & Operations Research*, Vol. 70, pp 9-17.
39. Malte Fliedner, Dirk Briskorn, Nils Boysen (2016), “Vehicle scheduling under the warehouse-on-wheels policy”, *Discrete Applied Mathematics*, Vol. 205, pp 52-61.
38. Murat Firat, Dirk Briskorn, Alexandre Laugier (2016), “A Branch-and-Price algorithm for stable workforce assignments with hierarchical skills”, *European Journal of Operational Research*, Vol. 251, No. 2, pp 676-685.
37. Dirk Briskorn, Panagiotis Angeloudis (2016), “Scheduling co-operating stacking cranes with predetermined container sequences”, *Discrete Applied Mathematics*, Vol. 201, pp 70-85.

36. Nils Boysen, Dirk Briskorn, Simon Emde (2016), “Just-in-Time vehicle scheduling with capacity constraints”, *IIE Transactions*, Vol. 48, No. 2, pp 134-145.
35. Ward Passchyn, Dirk Briskorn, Frits C. R. Spieksma (2016), “Mathematical Programming Models for Lock Scheduling with an Emission Objective”, *European Journal of Operational Research*, Vol. 248, No. 3, pp 802-814.
34. Alexander Fröhlich von Elmbach, Nils Boysen, Dirk Briskorn, Sascha Mothes (2015), “Scheduling pick-up and delivery jobs in a hospital to level ergonomic stress”, *IIE Transactions on Healthcare Systems Engineering*, Vol. 5, No. 1, pp 42-53.
33. Nils Boysen, Dirk Briskorn, Simon Emde (2015), “A decomposition heuristic for the twin robots scheduling problem”, *Naval Research Logistics*, Vol. 62, No. 1, pp 16-22.
32. Alexander Lieder, Dirk Briskorn, Raik Stolletz (2015), “A Dynamic Programming Approach for the Aircraft Landing Problem with Aircraft Classes”, *European Journal of Operational Research*, Vol. 243, No. 1, pp 61-69.
31. Simon Emde, Nils Boysen, Dirk Briskorn (2014), “The berth allocation problem with mobile quay walls: Problem definition, solution procedures, and extensions”, *Journal of Scheduling*, Vol. 17, No. 3, pp 289-303.
30. Dirk Briskorn, Raik Stolletz (2014), “Aircraft landing problems with aircraft classes”, *Journal of Scheduling*, Vol. 17, No. 1, pp 31-45.
29. Dirk Briskorn, Erwin Pesch (2013), “Variable very large neighborhood algorithms for truck sequencing at transshipment terminals”, *International Journal of Production Research*, Vol. 51, No. 23–24, pp 7140-7155.
28. Dirk Briskorn, Joseph Leung (2013), “Minimizing Maximum Lateness of Jobs in Inventory Constrained Scheduling”, *Journal of the Operational Research Society*, Vol. 64, No. 12, pp 1851-1864.
27. Dirk Briskorn, Florian Jaehn (2013), “A Note on ‘Multistage Methods for Freight Train Classification’”, *Networks*, Vol. 62, No. 1, pp 80-81.
26. Dirk Briskorn, Florian Jaehn, Erwin Pesch (2013), “Exact Algorithms for Inventory Constrained Scheduling on a Single Machine”, *Journal of Scheduling*, Vol. 16, No. 1, pp 105-115.
25. Nils Boysen, Dirk Briskorn, Martin Tschöke (2013), “Truck Scheduling in Cross Docking Terminals with fixed Outbound Departures”, *OR Spectrum*, Vol. 35, No. 2, pp 479-504.
24. Stefan Bock, Dirk Briskorn, Andrei Horbach (2012), “Scheduling flexible maintenance activities subject to job-dependent machine deterioration”, *Journal of Scheduling*, Vol. 15, No. 5, pp 565-578.
23. Kangbok Lee, Byung-Cheon Choi, Joseph Leung, Michael Pinedo, Dirk Briskorn (2012), “Minimizing the Total Weighted Delivery Time in Container Transportation Scheduling”, *Naval Research Logistics*, Vol. 59, No. 3-4, pp 266-277.

22. Dirk Briskorn, Malte Fliedner (2012), “Packing Chained Items in Aligned Bins with Applications to Container Transshipment and Project Scheduling”, *Mathematical Methods of Operations Research*, Vol. 75, No. 3, pp 305-326.
21. Byung-Cheon Choi, Kangbok Lee, Joseph Leung, Michael Pinedo, Dirk Briskorn (2012), “Container Scheduling: Complexity and Algorithms”, *Production and Operations Management*, Vol. 21, No. 1, pp 115-128.
20. Andrei Horbach, Thomas Bartsch, Dirk Briskorn (2012), “Using a SAT-Solver to Schedule Sports Leagues”, *Journal of Scheduling*, Vol. 15, No. 1, pp 117-125.
19. Dirk Briskorn, Andrei Horbach (2012), “A Lagrangian Approach for Minimum Cost Single Round Robin Tournaments”, *Computers & Operations Research*, Vol. 39, No. 3, pp 718-727.
18. Marcel Büther, Dirk Briskorn (2012), “Reducing the 0-1 Knapsack Problem with a Single Continuous Variable to the Standard 0-1 Knapsack Problem”, *International Journal of Operations Research and Information Systems*, Vol. 3, No. 1, pp 1-12.
17. Dirk Briskorn (2011), “A Branching Scheme for Minimum Cost Tournaments with regard to Real World Constraints”, *Journal of the Operational Research Society*, Vol. 62, No. 12, pp 2133-2145.
16. Dirk Briskorn, Joseph Leung, Michael Pinedo (2011), “Robust Scheduling on a Single Machine using Time Buffers”, *IIE Transactions*, Vol. 43, No. 6, pp 383-398.
15. Dirk Briskorn, Andreas Drexler, Frits C. R. Spijksma (2010), “Round Robin Tournaments and Three Index Assignment”, *4OR*, Vol. 8, No. 4, pp 365-374.
14. Pim van ’t Hof, Gerhard Post, Dirk Briskorn (2010), “Round-robin Tournaments with Minimum Number of Breaks and Two Teams per Club”, *Operations Research Letters*, Vol. 38, No. 6, pp 592-596.
13. Dirk Briskorn, Byung-Cheon Choi, Kangbok Lee, Joseph Leung, Michael Pinedo (2010), “Complexity of single machine scheduling subject to nonnegative inventory constraints”, *European Journal of Operational Research*, Vol. 207, No. 2, pp 605-619.
12. Sönke Hartmann, Dirk Briskorn (2010), “A Survey of Variants and Extensions of the Resource-Constrained Project Scheduling Problem”, *European Journal of Operational Research*, Vol. 207, No. 1, pp 1-14.
11. Dirk Briskorn, Sigrid Knust (2010), “Constructing fair sports leagues schedules with regard to strength groups”, *Discrete Applied Mathematics*, Vol. 158, No. 2, pp 123-135.
10. Dirk Briskorn, Andreas Drexler (2009), “A Branching Scheme for Finding Cost-Minimal Round Robin Tournaments”, *European Journal of Operational Research*, Vol. 197, No. 1, pp 68-76.

9. Dirk Briskorn, Andreas Drexl (2009), “A branch-and-price algorithm for scheduling sport leagues”, *Journal of the Operational Research Society*, Vol. 60, No. 1, pp 84-93. Reprinted in: M. Wright (ed.): *Operational Research Applied to Sports*. Palgrave Macmillan, 2015.
8. Dirk Briskorn (2009), “Combinatorial Properties of Strength Groups in Round Robin Tournaments”, *European Journal of Operational Research*, Vol. 192, No. 3, pp 744-754.
7. Dirk Briskorn, Andreas Drexl (2009), “Integer Programming Models for Round Robin Tournaments”, *Computers & Operations Research*, Vol. 36, No. 3, pp 837-852.
6. Dirk Briskorn (2009), “Verwendung von Maschinenschedulingmodellen zur Abbildung betriebswirtschaftlicher Problemstellungen”, *WiSt - Wirtschaftswissenschaftliches Studium*, No. 10, 2009, pp 506-512.
5. Dirk Briskorn (2008), “Feasibility of Home-Away-Pattern sets for Round Robin Tournaments”, *Operations Research Letters*, Vol. 36, No. 3, pp 283-284.
4. Andreas Drexl, Dirk Briskorn (2008): “Die Spielpläne von Sportligen”, *WISU - Das Wirtschaftsstudium*, No. 2, 2008, pp 219-225.
3. Sönke Hartmann, Dirk Briskorn, Nils Kemme (2007), “Simulation und Optimierung fahrerloser Transportsysteme auf einem Container-Terminal”, *Industrie Management*, No. 4, 2007, pp 37-40.
2. Dirk Briskorn (2006), “A Note on Capacitated Lot Sizing with Setup Carry-Over”, *IIE Transactions*, Vol. 38, No. 11, pp 1045-1047.
1. Dirk Briskorn, Andreas Drexl, Sönke Hartmann (2006), “Inventory based Dispatching of Automated Guided Vehicles on Container Terminals”, *OR Spectrum*, Vol. 28, No. 4, pp 611-630. Reprinted in: K.H. Kim, H.-O. Günther (eds.), *Container Terminals and Cargo Systems*, Springer, 2007.

Proceedings

8. Dirk Briskorn, Gabor Erdélyi, Christian Reger (2016), “Bribery in k-Approval and k-Veto Under Partial Information”, *Proceedings of the 15th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2016)*, Singapore. International Foundation of Autonomous Agents and MultiAgent Systems (IFAAMAS).
7. Ward Passchyn, Dirk Briskorn, Frits Spieksma (2014), “Mathematical programming models for scheduling locks in sequence”, *Proceedings of ATMOS 2014*, OpenAccess Series in Informatics Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany.
6. Kimmo Nurmi, Dries Goossens, Thomas Bartsch, Flavia Bonomo, Dirk Briskorn, Guillermo Duran, Jari Kyngäs, Javier Marenco, Celso C. Ribeiro, Frits Spieksma, Sebastian

- Urrutia, Rodrigo Wolf (2010), “A Framework for a Highly Constrained Sports Scheduling Problem”, Proceedings of the International MultiConference of Engineers and Computer Scientists 2010 Vol III, Hong-Kong, March 17th to 19th 2010, Newswood Limited, pp 1991-1997. Reprinted in: Ao, Sio-Iong (ed.): IAENG Transactions on Engineering Technologies Volume 5, Springer, USA, 2010.
5. Kimmo Nurmi, Dries Goossens, Thomas Bartsch, Flavia Bonomo, Dirk Briskorn, Guillermo Duran, Jari Kyngäs, Javier Marenco, Celso C. Ribeiro, Frits Spijksma, Sebastian Urrutia, Rodrigo Wolf (2010), “A framework for scheduling professional sports leagues”, AIP Conference Proceedings, Vol. 1285, No. 1, pp 14-28.
 4. Dirk Briskorn (2008), “Alternative IP Models for Sport Leagues Scheduling”, Operations Research Proceedings 2007 - Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), Saarbrücken, September 5th to 7th 2007, Springer, Berlin, pp 403-408
 3. Dirk Briskorn, Andreas Drexel (2007), “Branching Based on Home-Away-Pattern Sets”, Waldmann, K.-H.; Stocker, U. M. (eds.): Operations Research Proceedings 2006 - Selected Papers of the Annual International Conference of the German Operations Research Society (GOR), Karlsruhe, September 6th to 8th 2006, Springer, Berlin, pp 523-528
 2. Dirk Briskorn, Sönke Hartmann (2006), “Simulating Dispatching Strategies for Automated Container Terminals”, Haasis, H.-D.; Kopfer, H.; Schönberger, J. (eds.): Operations Research Proceedings 2005 – Selected Papers of the Annual International Conference of German Operations Research Society (GOR), Bremen, September 7th to 9th 2005, Springer, Berlin, pp 97-102
 1. Dirk Briskorn (2006), “Scheduling Sports Leagues using Branch-And-Price”, Burke, E. K.; Rudova, H. (eds.): Proceedings of the 6th International Conference on the Practice and Theory of Automated Timetabling (PATAT), Brno, Tschechien, August 30th to September 1st 2006, Springer, Berlin, pp 367-369