

Publications

Snezana Mitrovic Minic

Refereed Publications

- [1] S. Mitrovic-Minic, A. Boukhtouta, M. Allouche, M. Belanger, J. Berger, D. Thomson, and A. Wang (2012) “A comparison of the decision support technologies for operational logistics”, Proceedings of the International Conference on Information Systems, Logistics and Supply Chain, ILS 2012, Quebec, Aug 26-29, 2012, 10 pages
- [2] O. Abdelkhalek, S. Krichen, A. Guitouni, and S. Mitrovic-Minic (2011) “A genetic algorithm for a multi-objective node placement problem in heterogeneous network infrastructure for surveillance applications”, Proceedings of the WMNC 2011 IEEE Wireless and Mobile Networking Conference, Joint with 4th IFIP, Toulouse, France, Oct 26-28, 2011, 9 pages
- [3] S. Mitrovic-Minic and A. Punnen (2011) “Scheduling of a heterogeneous fleet of re-configurable ferries: a model, a heuristic, and a case study”, 7 pages, OR 2011 – International Conference on Operations Research, Zurich, Switzerland, Aug 30–Sep 2, 2011
- [4] P. Maupin, A.-L. Jusselme, H. Wehn, S. Mitrovic-Minic, and J. Happe (2011) “SAT: A situation analysis toolbox for course of action evaluation”, 16th ICCRTS, Québec City, Canada, Jun 21–23, 2011 [Best paper of the Architectures, Technologies, and Tools track]
- [5] P. Maupin, A.-L. Jusselme, H. Wehn, S. Mitrovic-Minic, J. Happe (2010) “A situation analysis toolbox: application to coastal and offshore surveillance”, 10 pages, 13th International Conference on Information Fusion, Jul 26–29, 2010, Edinburgh, UK
- [6] S. Mitrovic-Minic, A. Guitouni, and H. Zwick (2010) “Risk aggregation methodology for emergency management”, 10 pages, Proceedings of the first conference of Decision Sciences Institute, European section (EDSI), Barcelona, Spain, Jul 2–3, 2010
- [7] S. Mitrovic-Minic and A.P. Punnen (2009) “Variable intensity local search”, *Annals of Information Systems* 10, 245-252
- [8] S. Mitrovic-Minic and A.P. Punnen (2009) “Local search intensified: Very large-scale variable neighborhood search for the multi-resource generalized assignment problem”, *Discrete Optimization* 6, 370-377 [Six months among Top 4, and nine months among Top 25 articles]
- [9] S. Mitrovic-Minic and A.P. Punnen (2008) “Very large-scale variable neighborhood search for the generalized assignment problem”, *Journal of Interdisciplinary Mathematics* 11(5), 653-670
- [10] S. Mitrovic-Minic and G. Laporte (2006) “The pickup and delivery problem with time windows and transshipment”, *INFOR* 44(3), Aug 2006, 217-227
- [11] S. Mitrovic-Minic and R. Krishnamurti (2006) “The multiple traveling salesman problem with time windows: bounds for the minimum number of vehicles based on precedence graphs”, *Operations Research Letters* 34(1), 111-120
- [12] S. Mitrovic-Minic and G. Laporte (2004) “Waiting strategies for the dynamic pickup and delivery problem with time windows”, *Transportation Research B* 38, 635-655 [Part of the reading list for a graduate course at Business School, University of Vienna, 2005-2006]
- [13] S. Mitrovic-Minic, R. Krishnamurti, and G. Laporte (2004) “Double-horizon based heuristics for the dynamic pickup and delivery problem with time windows”, *Transportation Research B* 38, 669-685 [Part of the reading list for a graduate course at Business School, University of Vienna, 2005-2006]
- [14] D. Cvetkovic and S. Mitrovic-Minic (2003) “A generalized short edge subgraph for combinatorial optimization problem”, Proceedings of SYM-OP-IS XXX, Serbia and Montenegro, 319-321

Book Chapters

- [15] P. Maupin, A.-L. Jusselme, H. Wehn, S. M. Minic, and J. Happe (2012) “A toolbox for the evaluation of surveillance strategies based in interpreted systems”, Chapter 14 (14 pages) in E. Blasch, E. Bose, and D.A.

Lambert (Eds.) *High-Level Information Fusion Management and System Design*, 2012, Artech House, Boston

- [16] *Modelling in Healthcare* (2010) AMS Publication, 218 pages, A. Alimadad, A. Borwein, P. Borwein, V. Dabbaghian, R. Ferguson, A.H. Ghaseminejad, W. Hare, J. Li, S. Mitrovic-Minic, A. Rutherford, K. Vasarhelyi, L. Vertasi, and A. van der Waall

Submitted for Publication

- [17] D. Karapetyan, K.T. Malladi, S. Mitrovic-Minic, and A. Punnen (2012) “An ejection-chain heuristic for the satellite downlink scheduling problem: A case study with RADARSAT-2”, 17 pages

Manuscripts in Preparation

- [18] S. Mitrovic-Minic, M. Gendreau, J.-Y. Potvin, and J. Berger (2013) “Three-Echelon Supply Chain Management”, 27 pages

Technical Reports

- [19] A. Alimadad, A.H. Ghaseminejad, W. Hare, J. Li, S. Mitrovic-Minic, A.R. Rutherford, K. Vásárhelyi, and L. Vertesi (2007) “Assessment of cataract surgery wait lists for British Columbia”, *Report for BC Ministry of Health*, Mar 2007
- [20] A. Alimadad, P. Borwein, V. Dabbaghian-Abdoly, R. Ferguson, J. Li, S. Mitrovic-Minic, A.R. Rutherford, and L. Vertesi (2007) “Time profile analysis for hip and knee surgery targets”, *Report for BC Ministry of Health*, Jan 2007
- [21] A. Alimadad, P. Borwein, V. Dabbaghian-Abdoly, R. Ferguson, Y. Gusev, W. Hare, M. Hayes, M. Joffres, C. Linkletter, S. Mitrovic-Minic, A.R. Rutherford, K. Vasarhelyi, and L. Vertesi (2006) “Modeling the demand for health care”, *Report for BC Ministry of Health*, 125 pages, Sep 2006
- [22] A. Alimadad, P. Borwein, V. Dabbaghian-Abdoly, R. Ferguson, E. Fowler, Y. Gusev, M. Hayes, J. Li, S. Mitrovic-Minic, A.R. Rutherford, K. Vásárhelyi, and L. Vertesi (2006) “A model for hip and knee surgery wait lists in British Columbia incorporating transitions in booking and surgery rates”, *Report for BC Ministry of Health*, Sep 2006
- [23] A. Alimadad, P. Borwein, V. Dabbaghian-Abdoly, R. Ferguson, E. Fowler, Y. Gusev, M. Hayes, S. Mitrovic-Minic, A.R. Rutherford, K. Vásárhelyi, and L. Vertesi (2006) “How many more cases are needed? – A report on hip and knee surgery waits in British Columbia”, *Report for BC Ministry of Health*, 20 pages, May 2006
- [24] E. Krcmar, S. Mitrovic-Minic, G.C. van Kooten, and I. Vertinsky (2005) “Forest management zone design with a tabu search algorithm”, 23 pages, University of Victoria, Department of Economics, *REPA (Resource and Environmental Economics and Policy Analysis) Working paper* 2005-13
- [25] S. Mitrovic-Minic and R. Krishnamurti (2002) “The multiple traveling salesman problem with time windows: Bounds on the minimum number of vehicles”, 16 pages, Simon Fraser University, School of Computing Science, *CMPT TR* 2002-11
- [26] S. Mitrovic-Minic (1998) “Pickup and delivery problem with time windows: A survey”, 43 pages, Simon Fraser University, School of Computing Science, *CMPT TR* 1998-12

Theses

- [27] Ph.D. Thesis “The dynamic pickup and delivery problem with time windows” (2002) School of Computing Science, Faculty of Applied Science, Simon Fraser University, Canada; Supervisors: Gilbert Laporte, Ramesh Krishnamurti, Arvind Gupta; November 2001
- [28] M.Sc. Thesis “Improvements of search strategies in branch and bound algorithms for combinatorial optimization problems” (1994), Faculty of Electrical Engineering, University of Belgrade, Yugoslavia; Supervisor: Dragos Cvetkovic; May 1994