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### Referências Bibliográficas

- [1] AHUJA, R.K.; JHA, K.C. New Approaches for Solving the Block-to-Train Assignment Problem, Department of Industrial & Systems Engineering, University of Florida, Gainesville, FL, 2004. Relatório Técnico.
- [2] AHUJA, R.K.; JHA, K.C.; LIU J. Solving real-life railroad blocking problems. Department of Industrial & Systems Engineering, University of Florida, Gainesville, FL, USA, 2004. Relatório Técnico,
- [3] AHUJA, R.K.; LIU J.; ORLON, J.B.; SHARMA, D.; SHUGHART, L.A. Solving real-life locomotive scheduling problems. *Transportation Science*, v. 32, p. 358-369, 2002.
- [4] ALBUQUERQUE, M.C. Indicadores de desempenho no transporte ferroviário de carga. Dissertação de mestrado. Pontifícia Universidade Católica do Rio de Janeiro, Rio de Janeiro, 2006.
- [5] ASSAD, A. A., Modeling of rail networks: Toward a routing/makeup model, **Transportation Research**, v. 14B, p. 101-114, 1980.
- [6] BALDACCI, R.; MANIEZZO, V. ; MINGOZZI, A. An exact method for the car pooling problem based on Lagrangean column generation. *Operations Research*, v. 52, p.422-439, 2004.
- [7] BARCUS, L. et al. Routing Design for Less-Than-Truckload Motor Carriers Using Ant Colony Techniques. Departamento de Economía de la Empresa, Universidad Carlos III de Madrid, 2004. Relatório Técnico.
- [8] BEKTAS, T.; CRAINIC, T.G.; MORENCY, V. Improving performance of rail yards through dynamic reassignments of empty cars. Centre Interuniversitaire de Recherche sur les Réseaux d'Entreprise, la Logistique et le Transport (CIRRELT). Relatório Técnico. Disponível em : <<http://www.forac.ulaval.ca:1037/Publications/Documents%20de%20travail%202007/CIRRELT-2007-19.pdf>>. Acesso em 12/12/2007.

- [9] BIANCHI, L. Ant Colony Optimization and Local Search for the Probabilistic Traveling Salesman Problem: A Case Study in Stochastic Combinatorial Optimization. Tese de Doutorado, ULB – Université Libre de Bruxelles, 2006.
- [10] BIRATTARI, M., DORIGO, M., How to assess and report the performance of a stochastic algorithm on a benchmark problem: Mean or best result on a number of runs? **Optimization Letters**, v. 1, n. 3, p. 309-311, 2007.
- [11] BIRATTARI, M. On the estimation of the expected performance of a metaheuristic on a class of instances. How many instances, how many runs?, Technical Report. IRIDIA, Université Libre de Bruxelles, Brussels, Belgium, 2004.
- [12] BLACK, Paul E. Dijkstra's algorithm. **Dictionary of Algorithms and Data Structures** [online], Paul E. Black, ed., U.S. National Institute of Standards and Technology. 2006. Publicação Online. Disponível em: <<http://www.nist.gov/dads/HTML/dijkstraalgo.html>>. Acesso em: 6/2/2008.
- [13] BLUM, Christian; ROLI, Andrea. Metaheuristics in Combinatorial Optimization: Overview and Conceptual Comparison. *ACM Computing Surveys*, v. 35, n. 3, p. 268–308, 2003.
- [14] BULLNHEIMER, B., HARTL, R.F., STRAUSS, C.: A new rank-based version of the Ant System: A computational study. **Central European Journal for Operations Research and Economics**, v. 7, p. 25–38, 1999.
- [15] BUSSIECK, M. R., WINTER, T., ZIMMERMANN, U. T. Discrete Optimization in Public Rail Transport. **Mathematical Programming**, v. 79, p. 415-444, 1997.
- [16] CASTELLO BRANCO, J. E. (Ed.); FERREIRA, R. (Ed.). Tratado de estradas de ferro: material rodante. 438 p, Rio de Janeiro, 2000.
- [17] CHARNES, A. & MILLER, M. H.: A model for the optimal programming of railway freight train movements, **Management Science**, 3, 74–92, 1956.
- [18] COLORNI, A.; DORIGO, M.; MANIEZZO, V. Distributed optimization by ant colonies. **Proceedings of the First European Conference on Artificial Life**. p. 134-142, Cambridge, MA, MIT Press, 1992.

- [19] CORDEAU, J.-F. A branch-and-cut algorithm for the dial-a-ride problem. **Operations Research**. n. 54, p. 573–586, 2006.
- [20] CORDEAU J-F; LAPORTE G. A tabu search heuristic for the static multi-vehicle dial-a-ride problem. **Transportation Research Part B**, n. 37, p. 579-594, 2003.
- [21] CRAINIC, Teodor Gabriel; KIM Intermodal Transportation. **Handbooks In Operations Research & Management Science: Transportation**, n. 14, p. 467-529. C. Barnhart, G. Laporte (eds.). North Holland. Oxford, UK, 2007.
- [22] CRAINIC, Teodor Gabriel. Long Haul Freight Transportation. **Handbook of Transportation Science**. R.W. Hall (Ed.), 2nd Edition, Kluwer, 2002.
- [23] CRAINIC, Teodor Gabriel; LAPORTE, Gilbert. Planning models for freight transportation. **European Journal of Operational Research**. n. 97, p. 409-438, 1997.
- [24] CRAINIC, Teodor Gabriel; ROY, Jacques. OR tools for tactical freight transportation planning. **European Journal of Operational Research**. n. 33, p. 290-297, 1988.
- [25] CRAINIC, Teodor Gabriel; FERLAND, Jacques A.; ROUSSEAU, Jean Marc. A Tactical Planning Model for Rail Freight Transportation. **Transportation Science**, v.18, n. 2, p. 165-184, 1984.
- [26] CRAINIC, Teodor Gabriel; FERLAND, Jacques A.; ROUSSEAU, Jean Marc. Un modèle de planification pour le transport ferroviaire des marchandises. Centre de Recherche sur les Transports. Publication # 195. Université de Montréal. Montreal, Canadá, 1980.
- [27] DAGANZO, Carlos F.; DOWLING, Richard G.; HALL, Randolph W. Railroad Classification Yard Throughput: The Case of Multistage Triangular Sorting. **Transportation Research**, vol. 17A, n. 2, p. 95-106, University of California, Berkeley (CA), EUA, 1983.
- [28] DELL'AMICO, M. ; RIGHINI, G.; SALANI, M. A Branch-and-Price Approach to the Vehicle Routing Problem with Simultaneous Distribution and Collection. **Transportation Science**, v. 40, n. 2, p. 235-247, 2006.

- [29] DELL'AMICO, M. ; MONACI, M.; PAGANI, C; VIGO, D. Heuristic approaches for the Fleet Size and Mix Vehicle Routing Problem with Time Windows. **Transportation Science**, v. 41, n. 4, p. 516-526. 2007.
- [30] DIESTEL, REINHARD. **Graph Theory**. 3.Ed. Heidelberg, Alemanha: Springer-Verlag, 2005. 411p.
- [31] DIÓGENES, G. S. Uma contribuição ao estudo dos indicadores de desempenho operacional de ferrovias de carga: O caso da Companhia Ferroviária do Nordeste. Dissertação de mestrado. COPPE/UFRJ, Rio de Janeiro, 2002
- [32] DIRNBERGER, J. R.; BARKAN, C. P. L. Lean railroading: Improving railroad classification terminal performance through bottleneck management methods. **Transportation Research Record - Journal of the Transportation Research Board**, n. 1995, p. 52-61. 2007. Disponível em: <<http://cee.uiuc.edu/railroad/CEE/pdf/Dirnberger%20&%20Barkan%202007.pdf>>. Acesso em: 31/5/2008.
- [33] DORIGO, M., BIRATTARI, M., STÜTZLE, T. Ant colony optimization: Artificial ants as a computational intelligence technique. **IEEE Computational Intelligence Magazine**, v. 1, n. 4, p. 28-39, 2006.
- [34] DORIGO , M. ; BLUM, C. Ant colony optimization theory: A survey. **Theoretical Computer Science**, v. 344, n 2-3, p. 243-278, 2005.
- [35] DORIGO, M., STÜTZLE, T.: **Ant Colony Optimization**. 7.ed. Cambridge, MA, EUA: MIT Press, 2004. 305p.
- [36] DORIGO, M.; STÜTZLE, T. The Ant Colony Optimization Metaheuristic: Algorithms, Applications, and Advances. Université Libre de Bruxelles, IRIDIA, Brussels, Belgium, 2000. Relatório Técnico.
- [37] DORIGO, M., Optimization, Learning and Natural Algorithms, Tese de Doutorado – Politecnico di Milano, 1992.
- [38] DORIGO M., MANIEZZO V., COLORNI, A. Positive Feedback as a Search Strategy. Politecnico di Milano, Dipartimento di Elettronica, Itália, 1991. Relatório Técnico.

- [39] DUMAS, Y., DESROSIERS, J. e SOUMIS, F. The pickup and delivery problem with time windows. **European Journal of Operational Research**, v. 54, p. 7-22, 1991.
- [40] DYKE, Carl Van. Asset Velocity, Terminal Performance and Network Fluidity. In: MULTIRAIL, 2006, Princeton, NJ, EUA. Disponível em: <[http://www.railplanning.com/MR2006docs/Carl%20Van%20Dyke\\_Network%20Performance.pdf](http://www.railplanning.com/MR2006docs/Carl%20Van%20Dyke_Network%20Performance.pdf)>. Acesso em: 31/5/2008.
- [41] FOSTER, I. Designing and Building Parallel Programs. Online Publishing Project of Addison-Wesley Inc., Argonne National Laboratory and the NSF Center for Research on Parallel Computation. Publicação Online. 2005. Disponível em: <<http://www-unix.mcs.anl.gov/dbpp/>>, Acesso em: 1/12/2006.
- [42] FRANZESE, L. A. G. FIORONI, M. M. BOTTER, R. C. Railroad Simulator on Closed Loop, **Anais do Proceedings of the 2003 Winter Simulation Conference**; v. 2, p. 1602-1606, New Orleans, LA, EUA. 2003.
- [43] GAMBARDELLA, L. M.; RIZZOLI, A. E.; OLIVERIO, F.; CASAGRANDE, N.; DONATI, A. V.; MONTEMANNI, R.; LUCIBELLO, E. Ant Colony Optimization for vehicle routing in advanced logistics systems. **MAS2003 - The International Workshop on Modeling & Applied Simulation**, p. 3-9, Ed. A. G. Bruzzone e R. Mosca, 2003.
- [44] GARCIA, I.; GUTIERREZ, G. A simulation model for strategic planning in rail freight transport systems. **Institute of Transportation Engineers. ITE Journal**. v. 73, n. 9, 2003. Publicação Online. Disponível em: <[http://findarticles.com/p/articles/mi\\_qa3734/is\\_200309/ai\\_n9269474](http://findarticles.com/p/articles/mi_qa3734/is_200309/ai_n9269474)>. Acesso em: 21/12/2007.
- [45] GUALDA, N.D.F., MURGEL, L. M. F. G., A Model for the Train Formation Problem, Third International Meeting for Research in Logistics, Trois-Rivières, Québec, Canada, 2000.
- [46] GUTJAHR, WALTER J. First Steps to the Runtime Complexity Analysis of Ant Colony Optimization. Technical Report. Department of Statistics and Decision Support Systems, University of Vienna, Áustria, 2007.

- [47] JIN, Y.; MURIEL, A. Single-Warehouse Multi-Retailer Inventory Systems with Full TruckLoad Shipments. Relatório Técnico. Supply Chain Management Lab, University of Massachussets – Amherst, MA, EUA, 2005. Disponível em: <<http://scmlab.ecs.umass.edu/jin/NRLJun05.pdf>>. Acesso em: 4/3/2008.
- [48] KEATON, M. H., Designing Optimal Railroad Operating Plans: Lagrangian Relaxation and Heuristic Approaches, Transportation Research. v. 23B. n. 6, p. 415-431. Pergamon Press, Great Britain, 1989.
- [49] KRAFT, E. R. A Reservations-Based Railway Network Operations Management System. 244p. Tese de Doutorado. Department of Systems Engineering, University of Pennsylvania, Philadelphia, PA, EUA, 1998.
- [50] KUO, Ching-Chung; NICHOLLS, Gillian M. A mathematical modeling approach to improving locomotive utilization at a freight railroad. **Omega: The International Journal of Management Science**. v. 35, p. 472-485. 2007.
- [51] LEE Y. H., KIM J. I., KANG K. H; KIM, K. H. A heuristic for vehicle fleet mix problem using tabu search and set partitioning, **Journal of the Operational Research Society**. 2007. Publicação Online. Disponível em: <<http://www.palgrave-journals.com/jors/journal/vaop/ncurrent/abs/2602421a.html>>. Acesso em: 18/11/2007.
- [52] LI, Haibing; LIM Andrew. A Metaheuristic for the Pickup and Delivery Problem with Time WindowS. **International Journal on Artificial Intelligence Tools**, v. 12, n. 2. p. 173-186, 2003.
- [53] LINDNER, Thomas. Train Schedule Optimization in Public Rail Transport. 139p. Tese de Doutorado – Departamento de Matemática e Informática. Universidade de Braunschweig, Alemanha, 2000.
- [54] LU, Quan; DESSOUKY, Maged M. A new insertion-based construction heuristic for solving the pickup and delivery problem with time windows. **European Journal of Operational Research**, v. 175, n. 2, p. 672-687, 2006.

- [55] LU, Q, DESSOUKY, M. An Exact Algorithm for the Multiple Vehicle Pickup and Delivery Problem. **Transportation Science**, v. 38(4), p. 503-514, 2004.
- [56] LÜBBECKE, Marco. Engine Schedule by Column Generation. 181p. Tese de Doutorado. Braunschweig University of Technology, Alemanha, 2001.
- [57] MANIEZZO, V., CARBONARO, A. Ant Colony Optimization: An Overview. 20p. Scienze dell'Informazione, University of Bologna, Bologna, Italy, 1999. Relatório Técnico.
- [58] MARIN, A.; SALMERON, J. Tactical design of rail freight networks. Part I: Exact and heuristic methods. **European Journal of Operational Research**. n. 90, p. 26-44, 1996a.
- [59] MARIN, A.; SALMERON, J. Tactical design of rail freight networks. Part II: Local search methods with statistical analysis. **European Journal of Operational Research**. n. 94, p. 43-53, 1996b.
- [60] MARTINELLI, D.R.; HUALIANG, T., Optimization of Railway Operations Using Neural Networks, **Transportation Research**, vol. 4, n. 1, pp 33-49, United Kingdom, 1996.
- [61] MITROVIC-MINIC, S. Pickup and Delivery Problem with Time Windows: A Survey. Burnaby, BC, Canada. 43p. Technical report: SFU CMPT TR 1998-12 – School of Computing Science, Simon Fraser University, 1998.
- [62] MITROVIC-MINIC, S.; LAPORTE, G. Waiting Strategies for the Dynamic Pickup and Delivery Problem with Time Windows. Technical report: SFU CMPT TR 1998-12 – School of Computing Science, Simon Fraser University, 2003.
- [63] NANRY, W.P.; BARNES, J.W. Solving the Pickup and Delivery Problem with Time Windows using Tabu Search, **Transportation Research Part B**, n. 34, p. 107-121, 2000.
- [64] OBITKO, Marek. Uma introdução aos Algoritmos Genéticos com Java applets. 1998. Tradução Hermelindo Pinheiro Manoel. Publicação Online.

Disponível em: <<http://www.professor.webizu.org/ga/>>. Acesso em: 23/02/2008.

- [65] PACHL, J.: Railway Operation and Control. VTD Publishing. 2002.
- [66] PARRAGH, S. N.; DOERNER, K. F.; HARTL R. F. A survey on pickup and delivery models Part II: Transportation between pickup and delivery locations, Faculty of Business, Economic and Statistics, Department of Business Studies, University of Vienna, Vienna, Austria, 2006. Relatório Técnico.
- [67] REIMANN, Marc. Ant Based Optimization in Goods Transportation. 141p. Tese de Doutorado – University of Vienna, Austria, 2002.
- [68] REIS Jr., W.O. Um Otimizador Branch & Bound Paralelo para Manobras em Pátios Ferroviários. Dissertação de Mestrado – Departamento de Informática, Centro Tecnológico, Universidade Federal do Espírito Santo, Vitória (ES), Brasil, 2003.
- [69] ROPKE, Stefan; CORDEAU, Jean-François; LAPORTE, Gilbert. Models and branch-and-cut algorithms for pickup and delivery problems with time windows. **Networks**. v. 49, n. 4, p. 258-272, 2007.
- [70] SABINO, J. A.; STÜTZLE T.; BIRATTARI, M.; LEAL, J. E. ACO Applied to Switch Engine Scheduling in a Railroad Yard. In: **Proceedings of the 5th International Workshop on Ant Colony Optimization and Swarm Intelligence - ANTS 2006**, Brussels, Belgium, 2006. p. 502-503.
- [71] SABINO, J. A. Competição Entre Colônias de Formigas Aplicada à Designação de Locomotivas de Manobras em Pátios Ferroviários. Dissertação de Mestrado – Departamento de Informática, Centro Tecnológico, Universidade Federal do Espírito Santo, Vitória (ES), Brasil, 2004.
- [72] SABINO, J. A. Ant Colony Systems Applied to Switch Engine Assignment and Routing in a Railroad Yard, **Student Paper Award on Management Science in Railroad Applications from RASIG, INFORMS (Institute for Operations Research and Management Science) Annual Meeting**, San Jose, CA, USA, 2002.



- [73] SAVELSBERGH, M.W.P.; SOL, M. The General Pickup and Delivery Problem. **Transportation Research**. v. 29, p. 17-29, 1995.
- [74] SIGURD, M., PISINGER, D., SIG, M. The pickup and delivery problem with time windows and precedences. Technical report, University of Copenhagen, 2000.
- [75] TARANTILIS, C.D.; IOANNOU, G.; PRASTACOS, G. Advanced vehicle routing algorithms for complex operations management problems. **Journal of Food Engineering**. v.70, p.455–471, 2005.
- [76] TOTH, P.; VIGO, D. **The Vehicle Routing Problem**. 1. Ed. Philadelphia, PA, EUA: SIAM, 2002. 367p.
- [77] TOTH, P.; VIGO, D. An Exact Algorithm for the Vehicle Routing Problem with Backhauls. **Transportation Science**. v. 31, n. 4, p. 372–385, 1997.
- [78] VAIDYANATHAN, Balachandran; AHUJA, Ravindra K.; LIU, Jian; SHUGHART, Larry A. Real-life locomotive planning: New formulations and computational results. **Transportation Research Part B: Methodological**. v. 42, n. 2, p. 147-168, 2008.
- [79] WINTER, T. Online and Real-Time Dispatching Problems. PhD thesis, Braunschweig University of Technology, Braunschweig, Germany, 1999.
- [80] YOURDON, E.; COAD, P. Object-Oriented Analysis, 2nd Edition, Englewood Cliffs, NJ: Prentice-Hall, 1991.
- [81] ZHOU, C., TAN, Y., LIAO, L., LIU, Y. Solving the Multi-vehicle Pick-up and Delivery Problem with Time Widows by New Construction Heuristic. **Proceedings of the Sixth international Conference on intelligent Systems Design and Applications (ISDA'06)**, n. 2, Washington, DC, p. 1035-1042, 2006.