

**Massimo Paolucci – Publications**

July - 2016

Book

- L.1 Paolucci M., Sacile R., "Agent-Based Manufacturing and Control Systems: New Agile Manufacturing Solutions for Achieving Peak Performance", CRC Press, Boca Raton (FL, USA), 2005 (ISBN: 1-57444-336-4).

International journals

- R38. Anghinolfi D., Paolucci M., Robba M., Optimal Planning of Door-to-Door Multiple Materials Separated Waste Collection, accepted on *IEEE Transactions On Automation Science And Engineering* (2016), in press, available online DOI: 10.1109/TASE.2016.2599517.
- R37 Anghinolfi D., Canepa E., Cattanei A., Paolucci M., Psychoacoustic optimization of the spacing of propellers, helicopter rotors and axial fans, accepted on *Journal of Propulsion and Power* (2016) (to appear)
- R36 Tonelli F., Bruzzone A.G., Paolucci M., Carpanzano E., Nicolò G., Giret A., Salido M. A., Trentesaux D., Assessment of Mathematical Programming and Agent-Based Modelling for Off-line Scheduling: application to Energy Aware Manufacturing, accepted on *CIRP Annals Manufacturing Technology*, Volume: 65 Issue: 1 Pages: 405-408, 2016 (in press) DOI: 10.1016/j.cirp.2016.04.119
- R35. Paolucci M., Anghinolfi D., Tonelli F., Facing energy-aware scheduling: a multi-objective extension of a scheduling support system for improving energy efficiency in a moulding industry, *Soft Computing*, Springer, pp. 1-12, 2015 (in press, available online since 21 Dec. 2015) DOI: 10.1007/s00500-015-1987-8
- R34. Anghinolfi D., Binasco A., Capogrosso A., Dean S., Paolucci M., A system supporting the analysis of motorway traffic accidents, *Int J Eng Bus Manag*, 2015, 7(22), DOI: 10.5772/62006
- RI.33 Ambrosino D., Paolucci M., Sciomachen A., Computational evaluation of a MIP model for multi-port stowage planning problems, *Soft Computing*, Springer, pp. 1-11, 2015 (in press, available online since 25 Sept. 2015) DOI 10.1007/s00500-015-1879-y
- RI.32 Anghinolfi D., Capogrosso A., Paolucci M., Perra F., "A System Supporting the evaluation of the operational effectiveness of naval tasks based on agent simulation", *Scalable Computing: Practice and Experience*, 15 (3), pp. 201–216, 2014, DOI: 10.12694/scpe.v15i3.1016, ISSN 1895-1767
- RI.31 Anghinolfi D., Paolucci M., "A general purpose Lagrangian heuristic applied to the train loading problem", *Procedia - Social and Behavioral Sciences*, Elsevier, 108, pp. 37-46, 2014, DOI:10.1016/j.sbspro.2013.12.818
- RI.30 Anghinolfi D., Cannata G., Mastrogiovanni F., Nattero C., Paolucci M., "Application and Experimental Validation of Pheromone Design in Ant Colony Optimization: the problem of Robot Skin Wiring", *Applied Artificial Intelligence, an International Journal*, Taylor and Francis, 28 (3), pp. 292-321 (2013), DOI:10.1080/08839514.2014.883907
- RI.29 Ambrosino D., Paolucci M., Sciomachen A., "Experimental evaluation of mixed integer programming models for the multi-port master bay plan problem", *Flexible Services and Manufacturing Journal*, Springer, 27, pp. 263–284, 2015, available online from November 2013, DOI: 10.1007/s10696-013-9185-4
- RI.28 Anghinolfi D., Cannata G., Mastrogiovanni F., Nattero C., Paolucci M., "On the Problem of the Automated Design of Large-scale Robot Skin", *Automation Science and Engineering, IEEE Transactions on*, vol.PP, no.99, pp.1-14, 2013, DOI:10.1109/TASE.2013.2252617
- RI.27 Anghinolfi D., Paolucci M., Robba, M. Taramasso, A.C., "A dynamic optimization model for solid waste recycling", *Waste Management* Volume 33, Issue 2, Pages 287-296, 2013, DOI:10.1016/j.wasman.2012.10.006
- RI.26 Tonelli F., Paolucci M., Anghinolfi D., Taticchi P., "Production planning of mixed model assembly lines: a heuristic mixed integer programming based approach", *Production Planning & Control: The management of operations*, 24 (1), pp. 110-127, 2013, DOI:10.1080/09537287.2011.609647.

- RI.25 Bruzzone A.A.G., Anghinolfi D., Paolucci M., Tonelli F., Energy-aware scheduling for improving manufacturing process sustainability: a mathematical model for flexible flow shops, *CIRP Annals - Manufacturing Technology*, 61 (1), pp. 459–462, 2012, DOI: 10.1016/j.cirp.2012.03.084.
- RI.24 Anghinolfi D., Cannata G., Mastrogiovanni F., Nattero C., Paolucci M., Heuristic approaches for the optimal wiring in large scale robotic skin design, *Computers & Operations Research*, 39 (11), pp. 2715-2724, 2012, DOI:10.1016/j.cor.2012.02.006.
- RI.23 Anghinolfi D., Paolucci M., Sacone S., Siri S., "Freight transportation in railway networks with automated terminals: a mathematical model and MIP heuristic approaches", *European Journal of Operational Research*, 214 (3), pp. 588-594, 2011, DOI: 10.1016/j.ejor.2011.05.013.
- RI.22 Anghinolfi D., Montemanni R., Paolucci M., Gambardella L.M., A Hybrid Particle Swarm Optimization approach for the Sequential Ordering Problem, *Computers & Operations Research*, vol. 38 (7), pp. 1076-1085, 2011, DOI: 10.1016/j.cor.2010.10.014.
- RI.21 Anghinolfi D., Ambrosino D., Paolucci M., Sciomachen A., A new three-step heuristic for the Master Bay Plan Problem, *Maritime Economics & Logistics*, 11, 98–120, 2009, DOI: 10.1057/mel.2008.19
- RI.20 Paolucci M., Revetria, Tonelli F., An Agent-based System for Sales and Operations Planning in Manufacturing Supply Chains, *WSEAS Transactions on Business and Economics*, 5 (3), 96-105, 2008.
- RI.19 Lonardo P., Anghinolfi D., Paolucci M., Tonelli F., A Stochastic Linear Programming Approach for Service Parts Optimization, *CIRP Annals - Manufacturing Technology*, 57, 441–444, 2008. DOI:10.1016/j.cirp.2008.03.015
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- RI.17 Minciardi R., Paolucci M., Robba M., Sacile R., Multi-objective optimization of solid waste flows: Environmentally sustainable strategies for municipalities, *Waste Management*, 28, 2202-2212, 2008, DOI:10.1016/j.wasman.2007.10.003
- RI.16 Anghinolfi D., Paolucci M., A new ant colony optimization approach for the single machine total weighted tardiness scheduling problem, *International Journal of Operations Research*, 5 (1), 1-17, 2008.
- RI.15 Anghinolfi D., Paolucci M., Parallel machine total tardiness scheduling with a new hybrid metaheuristic approach, *Computers & Operations Research*, 34 (11), 3471-3490, 2007.
- RI.14 Montaldo E., Sacile R., Coccoli M., Paolucci M., Boccalatte A., Agent-based enhanced workflow in manufacturing information systems: the MAKE-IT approach, *Journal of Computing and Information Technology - CIT*, 10, 4, 303-316, 2002, DOI:10.2498/cit.1001493
- RI.13 Paolucci M., Sacile R., Boccalatte A., Allocating crude oil supply to port and refinery tanks: a simulation based decision support system, *Decision Support Systems*, 33, 1, 39-54, 2002.
- RI.12 Paolucci M., Pesenti R., An object-oriented approach to discrete-event simulation applied to underground railway systems, *Simulation*, 72, 6, 372-383, 1999.
- RI.11 Avogadro E., Minciardi R., M. Paolucci, A decisional procedure for water resource planning taking into account water quality constraints, *European Journal of Operational Research*, 102, 320-334, 1997.
- RI.10 Perrotta A., Malacarne D., Taningher M., Pesenti R., Paolucci M., Parodi S., A computerized connectivity approach for analyzing the structural basis of mutagenicity in Salmonella and its relationship with rodent carcinogenicity, *Environmental and Molecular Mutagenesis*, 28, 1, 31-50, 1996, DOI:10.1002/(SICI)1098-2280(1996)28:1<31::AID-EM7>3.0.CO;2-H
- RI.9 La Barbera P., Lanza L., Minciardi R., Paolucci M., A decision support system for optimum use of multisensor information in flood forecasting, *Remote Sensing Reviews*, 14, 229-250, 1996.
- RI.8 Boccalatte A., Paolucci M., Pesenti R., Prefumo R., KCS: A hybrid approach to short-term scheduling in a manufacturing environment, *International Journal of Industrial Engineering - Applications and Practice*, 2, 2, 145-154, 1995, ISSN: 1943-670X

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- RI.6 La Barbera P., Lo Casto S., Paolucci M., Minciardi R., Integrating Meteosat satellite and rain-gauge information to estimate rainfall patterns, *Surveys in Geophysics*, **16**, 183-199, 1995.
- RI.5 Minciardi R., Paolucci M., Puliafito P.P., Development of a heuristic project scheduler under resource constraints, *European Journal of Operational Research*, **79**, 176-182, 1994.
- RI.4 Malacarne D., Pesenti R., Paolucci M., Parodi S., Relationship between molecular connectivity and carcinogenic activity: a confirmation with a new software program based on graph theory, *Environmental Health Perspectives*, **101**, 4, 332-342, 1993.
- RI.3 Gaglio S., Puliafito P.P., Paolucci M., Perotto P.P., Extending the applicability of the theory of the evidence in rule-based systems, *Journal of Intelligent Systems*, **1**, 4, 364-377, 1992.
- RI.2 Paolucci M., Pesenti R., Assessing a new utility/cost function for multiattribute decision making, *Operation Research Letters*, **12**, 5, 331-336, 1992.
- RI.1 Gaglio S., Puliafito P.P., Paolucci M., Perotto P.P., Some problems on uncertain knowledge acquisition for rule-based systems, *Decision Support System*, **4**, 3, 307-312, 1988.

#### Book chapters

- CL10 Ambrosino D., Anghinolfi D., Paolucci M., Siri S., An optimization approach for the train load planning problem in seaport container terminals, accepted on *Springer - Collaborative logistics and intermodality. Models and solutions for global environments* (2016) (to appear)
- CL.9 Anghinolfi D., Cannata G., Mastrogiovanni F., Nattero C., Paolucci M., "Experimental Evaluation of Pheromone Structures for Ant Colony Optimization: Application to the Robot Skin Wiring Problem", *Recent Advances in Computational Optimization Studies in Computational Intelligence*, Springer, Volume 470, pp 93-114, 2013, DOI:10.1007/978-3-319-00410-5\_6
- CL.8 Anghinolfi D., Gambardella, L.M., Montemanni, R., Nattero, C., Paolucci, M., Toklu, N.E., A matheuristic algorithm for a large-scale energy management problem, in Ivan Lirkov, Svetozar Margenov, Jerzy Waśniewski (Eds): *Large-Scale Scientific Computing, Lecture Notes in Computer Science*, 2012, Volume 7116, pp 173-181, DOI 10.1007/978-3-642-29843-1
- CL.7 Ambrosino D., Anghinolfi D., Paolucci M., Sciomachen A., An experimental comparison of different metaheuristics for the Master Bay Plan Problem, in P. Festa (Ed): *Experimental Algorithms, Lecture Notes in Computer Science*, 2010, Volume 6049/2010, pp 314-325, May 2010, DOI: 10.1007/978-3-642-13193-6\_27
- CL6. A. Grosso, D. Anghinolfi, M. Paolucci, A. Boccalatte, A distributed service-based software infrastructure for trip planning in motorway auto-routes context, in M. Essaaidi et al. (Eds.): *Intelligent Distributed Computing IV, SCI 315*, pp. 35–40, Springer-Verlag Berlin Heidelberg, 2010
- CL5. Anghinolfi D., A. Boccalatte, Paolucci M., Vecchiola C., Performance evaluation of an adaptive ant colony optimization applied to single machine scheduling, in X. Li et al. (Eds.): *Simulation Evolution and Learning, LNCS*, Springer Verlag, 411-420, Vol. 5361, 2008, DOI: 10.1007/978-3-540-89694-4
- CL4. Anghinolfi D., Paolucci M., "Simulated Annealing as an Intensification Component in Hybrid Population-Based Metaheuristics", in C. M. Tan (Ed): "Simulated Annealing", *Sciyo* (open access academic publisher), 2008 (ISBN 978-3-902613-33-2), available at [http://sciyo.com/books/show/title/simulated\\_annealing](http://sciyo.com/books/show/title/simulated_annealing)
- CL.3 Gozzi A., Paolucci M., Boccalatte A., Autonomous Agents Applied to Manufacturing Scheduling Problems: A Negotiation-Based Heuristic Approach, in V. Marik, O. Stepankova, H. Krautwurmova, M. Luck (Eds.): *Multi-Agent Systems and Application II, LNCS*, Springer Verlag, 198-219, Vol. 2322, 2002, DOI: 10.1007/3-540-45982-0\_12
- CL.2 Massa S., Paolucci M., Puliafito P.P., A New Modeling Technique Based on Markov Chains to Mine Behavioral Patterns in Event Based Time Series, in *DataWarehousing and Knowledge Discovery*, G. Goos, J. Hartmanis and J. van Leeuwen (Eds), LNCS, Vol. 1676, Springer Verlag, 802, 331-342, 1999, DOI:10.1007/3-540-48298-9\_35

- CL.1 La Barbera P., Lanza L., Marzano F., Mugnai A., Paolucci M., Minciardi R., Siccardi F., Multisensor analysis of the flood event of November 23-25th, 1987 on the Arno basin, *Floods and Flood Management* (A.J. Saul Ed.) Kluwer Academic Publ., Dordrecht, NL. 389-404, 1992.

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- RN.4 Paolucci M., Agent-based simulation in manufacturing: What is it for?, *AIROnews IX* - n. 2/3/4 Summer/Autumn/Winter 2004, pp.2-6.
- RN.3 Camurri A., Giglio D. Minciardi R. Paolucci M., Sacone S. San Martino R., "Controllo di produzione con Reti di Petri", *Automazione e Strumentazione*, **3**, 133-142, 1997.
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- CI68 Tonelli F., Paolucci M., Demartini M., Anghinolfi D., Multi-agent framework for Manufacturing Sustainability Analysis and Optimization, accepted for presentation at the 6<sup>th</sup> Workshop on Service Orientation in Holonic and Multi-Agent Manufacturing (SOHOMA16), Lisbon (P), 6-7 October 2016.
- CI67 Giglio D., Paolucci M., A matheuristics for the single-period lot scheduling with component availability constraints in a partially closed manufacturing/remanufacturing system, *Proceedings of the 13th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2016) - Volume 1*, pages 110-120, Madrid (E), 29-£1 July 2016), DOI: 10.5220/0006005501100120
- CI66 Roshani A., Giglio D., Paolucci M., A simulated annealing approach for the capacitated dynamic lot sizing problem in a closed remanufacturing system, *IFAC-PapersOnLine*, Volume 49, Issue 12, 2016, Pages 1496–1501 (8<sup>th</sup> IFAC Conference on Manufacturing Modelling, Management, and Control (MIM2016), Troyes (F), 28-30 June 2016), DOI: 10.1016/j.ifacol.2016.07.783
- CI65 Anghinolfi D., Paolucci M., Tonelli F., A Vehicle Routing Problem with Time Windows Approach for Planning Service Operations in Gas Distribution Network of the a Metropolitan Area, *IFAC-PapersOnLine*, Volume 49, Issue 12, 2016, Pages 1365–1370 (8<sup>th</sup> IFAC Conference on Manufacturing Modelling, Management, and Control (MIM2016), Troyes (F), 28-30 June 2016), DOI: 10.1016/j.ifacol.2016.07.754
- CI.64 Ambrosino D., Paolucci M., Sciomachen A., "A MIP Heuristic for Multi Port Stowage Planning", *Transportation Research Procedia* (Proceedings of 18th Euro Working Group on Transportation, *EWGT 2015*, 14-16 July 2015, Delft, The Netherlands), Volume 10, 2015, Pages 725–734.
- CI.63 D. Giglio, M. Paolucci, "A Mixed-Integer Mathematical Programming Model for Integrated Planning of Manufacturing and Remanufacturing Activities", *Proceedings of the 11th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2014)*, INSTICC, vol. 2, pp. 751-759, 2014.
- CI.62 Anghinolfi D., Capogrosso A., Paolucci M., Perra F., "An agent-based simulator for the evaluation of the measurement of effectiveness in the military naval tasks", *Proc. of System Theory, Control and Computing (ICSTCC), 2013 17th International Conference*, Sinaia, Romania, 11-13 October 2013, pp. 733 – 738, ISBN: 978-1-4799-2227-7, DOI:10.1109/ICSTCC.2013.6689048
- CI.61 Anghinolfi D., Cannata G., Mastrogiovanni F., Nattero C., Paolucci M., "Experimental Analysis of Different Pheromone Structures in Ant Colony Optimization for Robotic Skin Design", *Computer Science and Information Systems (FedCSIS), 2012 Federated Conference on*, Wroclaw, Poland, September 9-12, 2012, pp. 431-438, ISBN: 978-1-4673-0708-6 (winner of the 2012 IFSA Awards for Young Scientist).
- CI.60 Anghinolfi D., Ambrosino D., Paolucci M., Sciomachen A., "Two mixed integer programming models and their relaxations for the multi-port master bay plan problem", in *Proc. of LOGMS The 2012 International conference on logistics and*

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- CI.56 Anghinolfi D., Paolucci M., Tonelli F., A mathematical model for a parallel machine scheduling energy-aware problem in manufacturing, Proc. of The 13th International MITIP Conference (MITIP 2011), pp. 439-448, Trondheim, Norway, 22 – 24 June 2011, ISBN: 9788251928168
- CI.55 Anghinolfi D., Paolucci M.: A new MIP Heuristic based on Randomized Neighborhood Search. Proc. of the VII ALIO–EURO – Workshop on Applied Combinatorial Optimization, Porto, Portugal, May 4–6, 2011, pp.84-87.
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- CI.52 Anghinolfi D., Paolucci M., Sacone S., Siri S., "Aggregate planning in general freight intermodal transportation networks", Proc. of TRISTAN VII, Tromsø (N), pp.37-40, June 2010
- CI.51 Anghinolfi D., Montemanni R., Paolucci M., Gambardella L.M., A Particle Swarm Optimization approach for the Sequential Ordering Problem, Proc. of MIC 2009: The VIII Metaheuristics International Conference, July 2009, Hamburg
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- CI.49 Ambrosino D., Anghinolfi D., Paolucci M., Sciomachen A., Modelling the multi-port master bay plan problem. In: Dauer R.R-M., Sagarra R.M., Martinez De Oss F.X., "Maritime Transport. vol. iv, 63-73, Barcellona, UPC, 2009. ISBN: 9788476538913.
- CI.48 Anghinolfi D., Ambrosino D., Paolucci M., Sciomachen A., An overview of heuristic methods for the master bay plan problem, Proc. of the International Conference on mathematical Problems in Engineering, Aerospace and sciences (ICNPAA-2008), Genova, June 25- Friday June 27, pp.255-265, 2008
- CI.47 Anghinolfi D., Ambrosino D., Paolucci M., Sciomachen A., A Tabu Search Approach for the Master Bay Plan Problem: A case study, Proc. of the 5<sup>th</sup> International Congress on Maritime Technological Innovations and Research, Barcelona (E), pp. 231-241, 2007
- CI.46 Paolucci M., Revetria, Tonelli F., An Agent-based System for Sales and Operations Planning in Manufacturing Supply Chains, Proc. of the 5<sup>th</sup> WSEAS International Conference on System Science and Simulation in Engineering (ICOSSSE'07), Venezia (I), pp. 339-345, 2007, WOS:000254162400055, ISBN: 978-960-6766-14-5
- CI.45 Anghinolfi D., Paolucci M., Sacone S., Siri S., A metaheuristic approach for the operational planning of freight intermodal transportation, Proc. of TRISTAN VI Triennial Symposium on Transportation Analysis, Phuket Island, Thailand, 2007.
- CI.44 Minciardi, R., Paolucci, M., Robba, M., Sacile, R, A multi-objective approach for sustainable Municipal Solid Waste (MSW) management, Proceedings of the iEMs 3rd Biennial Meeting, " Summit on Environmental Modelling and Software", iEMs 2006; Burlington, VT; 9-13 July 2006

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- CI.42 Giglio D., Paolucci M., Sacile R., "A dynamic routing strategy for the real-time management of a fleet of tank trucks", *Systems, Man and Cybernetics, 2004 IEEE International Conference on*, The Hague (NL), October 2004, Vol. 7, pp.6250-6255, DOI:10.1109/ICSMC.2004.1401380, ISBN: 0-7803-8566-7, ISBN: 0-7803-8566-7
- CI.41 Boccalatte A., Gozzi A., Paolucci M., Queirolo V., Tamoglia M., "A Multi-Agent System for Dynamic Just-In-Time Manufacturing Production Scheduling", *Systems, Man and Cybernetics, 2004 IEEE International Conference on*, The Hague (NL), October 2004, Vol. 6, pp.5548-5553, DOI:10.1109/ICSMC.2004.1401077, ISBN: 0-7803-8566-7
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- CI.37 Minciardi R., Paolucci M., Robba M., Sacile R., "A Multiobjective approach for solid waste management", Proc. International Environmental Modelling and Software Society Conf. - iEMs 2002, Lugano (CH), vol. 3, 205-210, 2002.
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- CI.33 Sacile R., Paolucci M., Boccalatte A., "COP-LIKE: A knowledge based system for the co-ordination and planning of manufacturing shop-floor information", Proc. IFAC/IFIP/IEEE Second Conference on Management and Control of Production and Logistics (MCPL 2000), Grenoble (F), 103-108, 2000.
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- CI.31 Sacile R., Paolucci M., Boccalatte A., "The MAKE-IT project: Manufacturing Agents in a Knowledge-based Environment driven by Internet Technologies", *Research Challenges, 2000. Proceedings. Academia/Industry Working Conference on*, Buffalo, NY (USA), Apr. 2000, pp. 281-291, DOI:10.1109/AIWORC.2000.843306, ISBN: 0-7695-0628-3
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