

PUBLICATIONS

Fanti Maria Pia is authors of 281 papers:

2 books,
78+7=85 journal papers,
11 book chapters,
183 conference papers

Books

- 1 M.P. Fanti, M.C. Zhou, **Deadlock Resolution in Computer-Integrated Systems**, ISBN: 0824753682, Dekker/CRC Press, New York, USA, 2005, 696 pages.
- 2 M. Dotoli, M.P. Fanti, **Matlab: Guida al Laboratorio di Automatica**, De Agostini Scuola, CittàStudiEdizioni, 2008, ISBN 9788825173253, 448 pages.

International Journal papers

- R78 X. Cong, M.P. Fanti, A.M. Mangini, Z. Li, “On-line verification of current-state opacity by Petri nets and integer linear programming”, to appear on *Automatica*, 2018.
- R77 M. Roccotelli, M. Nolich, M.P. Fanti, W. Ukovich, “Internet of Things and Virtual Sensors for Electromobility”, *Internet Technology Letters*, DOI:10.1002/itl2.39.
- R76 M.P. Fanti, A.M. Mangini, M. Roccotelli, “A simulation and control model for building energy management”, *Control Engineering Practice*, vol. 72, March 2018, pp. 192–205. <https://doi.org/10.1016/j.conengprac.2017.11.010>
- R75 M.P. Fanti, A.M. Mangini, G. Pedroncelli, W. Ukovich, “A decentralized control strategy for the coordination of AGV systems”, *Control Engineering Practice*, Volume 70, January 2018, pp. 86–97.
- R74 X. Cong, M.P. Fanti, A.M. Mangini, Z. Li, “Decentralized Fault Diagnosis by Petri Nets and Integer Linear Programming”, *IEEE Transactions on Systems Man and Cybernetics: Systems*, DOI 10.1109/TSMC.2017.2726108, Vol. 48, n. 10, Oct. 2018, pp. 1689 – 1700.
- R73 M.P. Fanti, A.M. Mangini, G. Pedroncelli, W. Ukovich, “Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks”, to appear on the *IEEE Transactions on Systems Man and Cybernetics: Systems*, DOI 10.1109/TSMC.2017.2747845, 2017.
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- R71 M.P. Fanti, G. Iacobellis, M. Nolich, A. Rusich, W. Ukovich, “A Decision Support System for Cooperative Logistics”, *IEEE Transactions on Automation Science and Engineering*, vol. 14, no. 2, pp. 732-744, April 2017, ISSN: 1545-5955, doi: 10.1109/TASE.2017.2649103
- R70 M.P. Fanti, W. Ukovich, “Decision Support Systems and Integrated Platforms: New Approaches for Managing Systems of Systems”, *IEEE Systems, Man, and Cybernetics Magazine*, vol. 3 no. 1, pp. 18-22, 2017.
- R69 M. P. Fanti, W. Ukovich, R. Uzsoy, “Guest Editorial: Special Section on Emerging Advances in Logistics Systems: Integrating Remote Sensing, IT, and Autonomy”, *IEEE Transactions on Automation Science and Engineering*, 2016, VOL. 13, No. 4, pp. 1420-1421, October 2016.
- R68 J. M. Salanova Grau, A. Rusich, E. Mitsakis, W. Ukovich, M. P. Fanti, G. Aifadopoulou, M. Nolich, E. Scala and C. Papadopoulos, “Evaluation framework in Cooperative Intelligent Transport Systems (C-ITS) for freight transport: the case of the CO-GISTICS speed advice service”, *International Journal of Advanced Logistics*, ISSN: 2287-108X (Print) 2287-7592, pp. 1-15, DOI: 10.1080/2287108X.2016.1144373.
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- R57 M. P. Fanti, A.M. Mangini, G. Iacobellis, W. Ukovich, “Freeway Traffic Modeling and Control in a First Order Hybrid Petri Net Framework”, *IEEE Transactions on Automation Science and Engineering*, vol. 11, no. 1, pp. 90-102, 2014. ISSN: 1545-5955.
- R56 M. Dotoli, M.P. Fanti, G. Iacobellis, G. Rotunno, “An Integrated Technique for the Internal Logistics Analysis and Management in Discrete Manufacturing Systems”, *International Journal of Computer Integrated Manufacturing*, vol. 27, no. 2, pp. 165-180, 2014.
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- R3 M.P. Fanti, B. Maione, R. Peluso, B. Turchiano, "Two-level Solution Method for Markov Chain Modelling Transfer Lines with Unreliable Servers and Finite Buffers", *Int. J. of Systems Science*, vol. 20, no. 6, pp. 971-986, 1989, UK ISSN: 0020-7721
- R2 M.P.Fanti, B.Maione, Q.Semeraro, B.Turchiano: "Assessing the Operational Analysis Robustness for Flexible Manufacturing Systems Modelling", *Int. J. of Systems Science*, vol. 19, no. 11, pp. 2381-2394, 1988, UK ISSN: 0020-7721
- R1 M. P. Fanti, B.Maione, B.Turchiano: "Structurally Fixed Modes of Systems Described by Rosenbrock's Polynomial Matrices", *Int. J. Control*, vol.48, no. 5, pp.1947-1965, 1988. ISSN: 0020-7179.

Journal papers in Italian

- RN1 M.P. Fanti, B. Maione, B. Turchiano "Una Strategia di Partizionamento ed Ordinamento degli Stati delle Catene di Markov nell'Analisi delle Linee di Produzione a Tre Stadi", *Automazione e Strumentazione*, n.6, pp.185-190, 1989.
- RN2 M.P. Fanti, B. Maione, G. Piscitelli, B. Turchiano "Alcuni Criteri di Gestione delle Code in un FMS", *Automazione e Strumentazione*, vol. XXXIX, no. 9, pp.109-117, 1991.
- RN3 M.P. Fanti, G. Maione, B. Turchiano, "Controllo di Celle Robotizzate: come Evitare Condizioni di Stallo", *Automazione e Strumentazione*, vol. XLIV, no. 2, pp. 91-95, 1996.
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Book chapters

- L1 B.Maione, M.P.Fanti, B.Turchiano "Large Scale Markov Chain Modelling of Transfer Lines", *Operations Research models in Flexible Manufacturing Systems*, CISM, Udine, Italy, October 5-9 1987, Springer-Verlag, 193-211.
- L2 M.P. Fanti, B. Maione, G. Piscitelli, B. Turchiano "Techniques and Applications of the System Approach to the Design of Generic Software for Real-Time Control of Flexible Manufacturing Systems (FMS)", *Computer Aided Design, Engineering, and Manufacturing: Systems, Techniques and Applications, Volume II, Computer Integrated Manufacturing*, Editore C. Leondes, Contributo invitato per "Gordon and Breach International Series in Engineering, Technology and Applied Science", Capitolo 1, pp. 1-31, CRC press, 2001.
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- L4 M.P. Fanti, M.C. Zhou, "Introduction to Deadlock Research in Computer-integrated Systems", M.P. Fanti, M.C. Zhou Eds., *Deadlock Resolution in Computer-Integrated Systems*, Dekker/CRC Press, New York, USA, 2005, pp. 1-34.
- L5 M. P. Fanti, B. Maione, G. Maione, and B. Turchiano, "Digraph-based Techniques for Deadlock Resolution in Automated Manufacturing Systems", Maria Pia Fanti and MengChu Zhou Eds. *Deadlock Resolution in Computer-Integrated Systems*, Dekker/CRC Press, New York, USA, 2005, pp. 131-154.
- L6 M. Dotoli, M.P. Fanti, C. Meloni, M.C. Zhou, "Service Computing for Design and re-Configuration of Integrated e-Supply Chains", *Enterprise Service Computing: From Concept to Deployment*, Idea Group, Inc., edited by Robin G. Qiu, USA, 2006.
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- L9 M.P. Fanti, "ICT Application on the Management of Intelligent Transportation Systems", *Informatics in Control Automation and Robotics, Lecture Notes in Electrical Engineering*, 2011, Volume 85, Part 1, 3-13, DOI: 10.1007/978-3-642-19730-7_1.
- L10 M. Clemente, M.P. Fanti, A.M. Mangini, W. Ukovich "The Vehicle Relocation Problem in Car Sharing Systems: Modeling and Simulation in a Petri Net Framework" in "Application and Theory of Petri Nets and Concurrency", *Lecture Notes in Computer Science Volume 7927*, 2013, pp 250-269.
- L11 Maria Pia Fanti, Bruno Maione and Biagio Turchiano "Deadlock Avoidance Policies in Production Systems by a Digraph Approach", *Formal Methods in Manufacturing*, J. Campos, C. Seatzu, X. Xie (Eds.), Taylor and Francis Group, CRC Press 2014, pp.229-255, ISBN: 978-1-4665-6155-7, eBook ISBN: 978-1-4665-6156-4.
- L12 M.P. Cabasino, P. Darondeau, M.P. Fanti, C. Seatzu, "Model Identification and Synthesis of Discrete-Event Systems", *Contemporary Issues in System Science and Engineering*, M. Zhou, H.-X. Lim M. Weijnen (Eds), IEEE/Wiley Press Book Series (to appear).
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