



Curriculum vitae

PERSONAL INFORMATION

Maria Pia Fanti



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POSITION

Full Professor on Control and System Engineering

WORK EXPERIENCE

27/04/2012–Present

Full Professor

Politecnico di Bari, Bari (Italy), Department of Electrical and Information Engineering

Chair of the Laboratory of Automation and Control at the Department of Electrical and Information Engineering, Polytechnic of Bari: 1 associate professor, 1 assistant professor (RTDB), 2 assistance researchers; 5 post doc researchers, 2 phd students

<http://dei.poliba.it/LabControlli/index.html>

01/11/1998–27/04/2012

Associate professor

Politecnico di Bari, Bari (Italy)

Visiting researcher at the Rensselaer Polytechnic Institute of Troy, New York, in 1999.

01/05/1990–01/11/1998

Assistant professor

Politecnico di Bari, Bari (Italy)

EDUCATION AND TRAINING

28/03/1983

Laurea degree

University of Pisa, Pisa (Italy)

TALKS, KEYNOTES,
LECTURES AND COURSES

Invited Plenary Talks

6th International Conference on Informatics in Control, Automation and Robotics, Milan, July 2-4, 2009: "Impact of the ICT on the management and performance of Intelligent Transportation Systems".

IEEE SOSE 2012 7th International Conference on Systems of Systems, Genoa, July 16-19 2012: "New Consensus Protocols for Agent Networks with Discrete Time Dynamics and Distributed Task Assignment".

14th IEEE International Conference on Automation Science and Engineering, Munich, August 20–24, 2018: "New Approaches for Managing Logistics Systems: Integrating Information, Communication Technologies and Remote Sensing"

2019 2nd international Conference on Robotics, Control and Automation 16-18, 2019: "New Approaches for Managing Logistics Systems"

2020 IEEE 6th International Conference on Control Science and Systems Engineering, July 17-19, 2020 “New Approaches for Managing Logistic and Transportation Systems”

2020 9th International Conference on Mechatronics and Control Engineering, July 22-24, 2020 “Enabling Technologies of Industry 4.0 for Logistic and Transportation Systems”

Invited Keynotes and Lectures

“Comparing Digraph and Petri Net Approaches to deadlock Avoidance in FMS”, RPI Troy, USA, September 9, 1999.

“Deadlock problems solved by graph theoretic approaches”, School of Electro-Mechanical Engineering, Xidian University, Xi’an, China, June 25, 2008.

“Modelling by Petri nets: Basic concepts and applications to the hospital management”, the Fourth Spring School on ICT, economical and organizational issues for e-health integration in the enlarged Europe, Capo d’Istria, Slovenia, June 26-29, 2008.

“Modelling, simulation and control by discrete event system approaches: research projects and application fields” Automated Production Research Laboratory, Ecole Normale Supérieure de Cachan, 16 November 2012.

“Fault Detection by Labeled Petri Nets in Centralized and Distributed Approaches” presso la School of Electro-Mechanical Engineering, Xidian University, Xi’an, China, November 21, 2014.

“Quantized Consensus Algorithm for Distributed Task Assignment: Results and Applications” presso la School of Electro-Mechanical Engineering, Xidian University, Xi’an, China, November 20, 2014.

“Fault Detection by Labeled Petri Nets in Centralized and Distributed Approaches” Automated Production Research Laboratory, Ecole Normale Supérieure de Cachan, December 3, 2015.

“Consensus Algorithms and Distributed Optimization” Automated Production Research Laboratory, Novi Sad (Serbia), March 15, 2017.

“Electro-mobility integrated into transport and mobility networks”, Step -UP training session, Interreg Italy-Croatia, Trieste, May 7, 2019.

“Green mobility and ITS for urban transport” 5th ITS Hellas Conference 2019, Intelligent Transport Systems, Athens, December 16, 2019.

Developed Courses at the Polytechnic of Bari

Master in Automation Engineering

Estimation and Control of Dynamical Systems, at present

Master in Computer Engineering

Modeling and Control of Discrete Event Systems, 2005 at present.

Computer science and Automation Engineering:

Fundamental on Automatic Control I 2005-present

Methodologies and Models for Engineering, 2010-2015

Process Control I, 2007- 2011

Management Engineering

Industrial Automation 2003-2008

Electrical Engineering:

Automatic Control 1994-2004.

Automatic Control II 2004-2010.

Mechanical Engineering:

Automatic Control 1994-2004

Industrial Automation 2003- 2008

Electronic Engineering

Fundamental on Automatic Control I 2004-2005

Fundamental on Automatic Control II 2004-2005

Developed Courses at the
University of Trieste

Modeling and Simulation, 2008 -2016.

RESEARCH ACTIVITIES

Main Research Areas

Automation and control systems This activity started in 1983 during the research work at the Laboratory of Automation and control. Different problems of control and modeling related to manufacturing systems, guided vehicle systems, automated storage and retrieval systems, railway networks, traffic networks are addressed.

Petri nets. Petri nets are the main framework used by prof. Fanti for control and modeling issues. This research theme has been developed in collaboration with other Italian and worldwide researchers.

Operational research and management science During the last 15 years operational research tools and decision support systems are employed to manage real systems: logistic systems, supply chains, intermodal transportation systems, intelligent transportation systems.

Consensus and distributed optimization This new research area started in 2010, two phd students worked in this topic.

Honors, Awards, and Listings

IEEE fellow for contributions to modeling and control of discrete event systems (2017)

IBM Theses Award, 1984

2008 IEEE SMC Most Active Technical Committee Award of the SMC Society, as the chair of the TC on Discrete Event Systems.

2008 IEEE SMC Best Associate Editor Award for the "Outstanding contributions as Associate Editor of the IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans".

Bibliometric Indicators

Author of 299 papers: 88 journal papers including 11 book chapters and 198 papers presented at international conferences.

The research activities have the following list of bibliometric indicators:

Hindex Scopus 28, citations 2985

H-index google Scholar 35, citations 4779

Editorial board of international
journals

2013 – 2019 Senior Editor of the "IEEE Transactions on Automation Science and Engineering".

2017-present Associate editor of the "IEEE Transactions on Systems, Man and Cybernetics: Systems".

2004 - 2015 Associate editor of the "IEEE Transactions on Systems, Man and Cybernetics: Part A. Systems and Humans

2005 – 2012 Associate editor of the "IEEE Transactions on Automation Science and Engineering".

2004 Guest editor of the "Special Issue on Deadlock Resolution in Computer Integrated Systems" IEEE Transactions on Systems, Man and Cybernetics: Part A. Systems and Humans, vol. 14, no. 1, pp. 80-92, January 2004.

Editor with M. Zhou of the book "Deadlock Resolution in Computer-Integrated Systems", Marcel Dekker Inc., New York, NY 2004.

2007 – 2013 Associate editor of the Int. J. "Enterprise Information Systems" Taylor & Francis Group.

2011 Editor of the special issue on Health Care Management and Optimization. IEEE Transactions on Systems, Man and Cybernetics: Part A.

2011 Editor of special issue "Advances in Discrete Event Systems for Automation" for the IEEE Transactions on Automation Science and Engineering.

Associate editor of the Int. J. "The Mediterranean Journal of Measurement and Control"

Member of the editorial board of "International Journal of Automation and Control" (IJAAC).

Technical Conference Chairs

General Chair of the 2nd IFAC Workshop on Dependable Control of Discrete Bari (Italy), 2009.

Co-Chair del THE THIRD INTERNATIONAL WORKSHOP ON INTELLIGENT VEHICLE, 2009.

Program Co-Chair of the 2009 IEEE Conference on Automation Science and Engineering, Bangalore, India.

Program Co-Chair of the 2009 IEEE Conference on System, Man, and Cybernetics, 2009.

General Chair of the IEEE Workshop on Health Care Management, 2010.

General Chair of the 2011 IEEE Conference on Automation Science and Engineering.

Program co-chair of Codit'16, Control, Decision, and Information technologies.

General Chair of SOLI 2017 IEEE International Conference on Service Operations and Logistics, and Informatics.

Program Co-Chair IEEE ICNSC 2017

Program Co-Chair, CoDIT'17

Member of the Steering committee of IEEE CASE 2015, 2016, 2017, 2018, 2019, 2020

General Co-Chair CoDIT'18, 5th 2018 International Conference on Control, Decision and Information Technologies.

Program Co-Chair CoDIT'18, 5th 2018 International Conference on Control, Decision and Information Technologies.

General Chair of the 2019 IEEE Conference on System, Man, and Cybernetics.

Technical Program Co-Chairs, 2020 IEEE Conference on System, Man, and Cybernetics.

Honorary co-Chairs CoDIT'20, 5th 2020 International Conference on Control, Decision and Information Technologies.

Program co- chair, 2020 IEEE Conference on System, Man, and Cybernetics.

Advisory Chair, 2020 IEEE 6th International Conference on Control Science and Systems Engineering, July 17-19, 2020

Committee Memberships and Society Offices

2013-present Chair of the Technical Committee on Automation in Logistics of the IEEE Robotics and Automation Society

2015-2019 Chair of the IEEE Italy Section Chapter of Control System Society

2007-2016 Founder and Chair of the IEEE Italy Section – Systems, Man, and Cybernetics Society Chapter

2009 – present Member of the IFAC Technical Committees TC 1.3 on Discrete Event and Hybrid Systems.

2009-2018 Co-chair of the Technical committee on Discrete Event Systems of IEEE Systems, Man, and Cybernetics Society.

2009-2011, Member of the BoG of the IEEE System, Man, and Cybernetics Society.

2012-2013 Vice Chair of the IEEE Italy Section

2013-2016 Member of the scientific committee of the Italian Federation of Automatic Control

2015 member of the committee of Creation of Educational material in Robotics and Automation (CEMRA)

2013-2018 Member at large of the BoG of the IEEE System, Man, and Cybernetics Society.

2018 member of the committee of Creation of Educational material in Robotics and Automation (CEMRA)

2017 Evaluator on the IEEE Robotics & Automation Society Fellow Evaluation Committee.

2018-2020 Member of the Administrative committee of the IEEE Robotics and Automation Society

2019 member of the RAS awards evaluation panel

2019 Member of the RAS Early academic career award panel in Robotics and Automation

2020 Member of the IEEE SIMON RAMO MEDAL COMMITTEE

2020 Member of the ICRA 2020 best paper award

2020 Member of the Systems Science and Engineering (SSE) Committee

European projects

EU H2020 “eCharge4Drivers, ‘Electric Vehicle Charging Infrastructure for improved User Experience”, 2020-2024, euros 476.250,00

INEA CEF “FENIX, A European FEderated Network of Information eXchange in Logistics”, 2019-2022. Euros 800.000,00

EU Adriatic-Ionian Programme INTERREG V-B “FUTURE 4.0 ManuFactUring educaTion and training governance model for IndUstry 4.0 in the Adriatic-Ionian aREa”, 2018-2019. Euros 95.985,00

EU H2020 “ELVITEN, Electrified L-category Vehicles Integrated into Transport and Electricity Networks”, 2017-2020. Euros 495.037,50

EU H2020 “AEOLIX, Architecture for EurOpean Logistics Information eXchange”, 2016-2019, 206.562,50

EU H2020 “optiTruck, optimal fuel consumption with Predictive PowerTrain control and calibration for intelligent Truck”, 2016-2019. Euros 184.375,00

EU H2020 “NEMO, Hyper-Network for electroMobility”, 2016-2019. Euros 66.562,50

EU CIP-ICT-PSP-2013-7, COoperative loGISTICS for sustainable mobility of goods- CO-GISTICS. Jan 2014- June 2017. Euros 81.900,00

National projects

Smart Cities and Communities and Social Innovation Pilot, “Applications post Directive 2010/65 in Italian port realities of the Suite MIELE to support the Authority to optimize the interOperability in the intermodAlity of city-port flows- ASMARA” 2014-2021. Euros 1.906.194,94 €

PON 2007-2013 -“RES NOVAE - Reti, Edifici Strade: Nuovi Obiettivi Virtuosi per l’Ambiente e l’Energia” Regioni Obiettivo Convergenza Campania, Puglia, Calabria, Sicilia – Asse II, 2013-2015.

PON “Mechatronic innovative safety systems (wired and wireless) for railway, aerospace and robotic applications (MASSIME)”, 2013-2015

PON “LAMRECOR - Logistica Avanzata per la Mobilità di Persone e Merci: Modelli Matematici e Sperimentazioni per Nuovi Protocolli di Recapito della Corrispondenza”, 2013-2015.

PRIN 2007 prot. 2007ZMZY5T “Decision models for design and management of logistic networks characterized by high interoperability and information integration”, September 22, 2007, September 22, 2000.

PRIN 2005 prot. 2005092439 “Analysis, optimization, and coordination of logistic and production systems” September 2005, September 2007.

“Medical applications for the next future (NEXMEDIA).” 2012-2014.

“Modelling and control of logistic systems characterized by high information integration”, September 2008- September 2009, “Fondazione Caripuglia”.

Technological transfer

Founder and president of the Inter-University Spin Off AutoLogS s.r.l.- Automation in Logistics and Service Systems, founded in March 2013.

PUBLICATIONS

Author of 299 papers: 2 books, 88 journal papers, 11 book chapters, 198 conference papers

Books

M.P. Fanti, M.C. Zhou, Deadlock Resolution in Computer-Integrated Systems, ISBN: 0824753682, Dekker/CRC Press, New York, USA, 2005, 696 pages.

M. Dotoli, M.P. Fanti, Matlab: Guida al Laboratorio di Automatica, De Agostini Scuola, CittàStudiEdizioni, 2008, ISBN 9788825173253, 448 pages

Journal papers

- R82 Remigiusz Wisniewski, Mengchu Zhou, Luis Gomes, Maria Pia Fanti, Ratnesh Kumar, "Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems" IEEE Transactions on Systems, Man, and Cybernetics: Systems, Vol. 50, No. 10, Oct. 2020, pp. 3484 - 3487.
- R81 K. Viard, M.P. Fanti, G. Faraut, J.J. Lesage, "Human Activity Discovery and Recognition using Probabilistic Finite-State Automata" IEEE Transactions on Automation Science and Engineering, vol. 17, no. 4, October 2020, pp. 2085-2096, 2020, 10.1109/TASE.2020.2989226.
- R80 M.P. Fanti, A.M. Mangini, G. Pedroncelli, W. Ukovich, "Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks", IEEE Transactions on Systems Man and Cybernetics: Systems, DOI 10.1109/TSMC.2017.2747845, vol. 50. No. 3 pp. 1161-1177, March 2020.
- R79 L. Abbatecola, M.P. Fanti, G. Pedroncelli, W. Ukovich, "A Distributed Cluster-Based Approach for Pick-Up Services" IEEE Transactions on Automation Science and Engineering, Vol. 16, no. 2, pp. 960-971, 2019.
- R78 X. Cong, M.P. Fanti, A.M. Mangini, Z. Li, "On-line verification of initial-state opacity by Petri nets and integer linear programming", ISA Transactions, vol. 93, pp. 108-114, 2019, ISSN: 0019-0578, 2018-Impact factor 4.343.
- R77 X. Cong, M.P. Fanti, A.M. Mangini, Z. Li "On-line verification of current-state opacity by Petri nets and integer linear programming", Automatica, vol. 94, pp. 205-213, 2018, ISSN: 0005-1098, 2018-Impact factor 6.126.
- R76 M. Roccotelli, M. Nolich, M.P. Fanti, W. Ukovich, "Internet of Things and Virtual Sensors for Electromobility", Internet Technology Letters, 2018, DOI:10.1002/itl2.39.
- R75 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>
- R74 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.
- R73 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.
- R72 M. Clemente, M. P. Fanti, G. Iacobellis, M. Nolich, and W. Ukovich, "A Decision Support System for User-Based Vehicle Relocation in Car Sharing Systems", IEEE Transactions on Systems, Man, and Cybernetics: Systems, Vol. 48, No. 8, August 2018, 10.1109/TSMC.2017.2665881, 2017.
- 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.
- R67 M. P. Fanti, G. Faraut, J.J. Lesage, M. Roccotelli, "An Integrated Framework for Binary Sensor Placement and Inhabitants Location Tracking", *IEEE Trans. on Systems, Man, and Cybernetics: Systems*, 2016, pp. 1- 7, DOI: 10.1109/TSMC.2016.2597699.
- R66 L. Abbatecola, M. P. Fanti, A. M. Mangini, and W. Ukovich, "A Decision Support Approach for Postal Delivery and Waste Collection Services", *IEEE Transactions on Automation Science and Engineering*, 2016, VOL. 13, No. 4, pp. 1458-1570, October 2016.
- R65 M. P. Fanti, G. Rotunno, G. Stecco, W. Ukovich, S. Mininel, "An Integrated System for Production Scheduling in Steelmaking and Casting Plants", *IEEE Transactions on Automation Science and Engineering*, Vol. 13, no. 2, pp. 1112 - 1128, 2016.
- R64 M. P. Fanti, G. Stecco, W. Ukovich, "Scheduling Internal Operations in a Post-Distribution Cross Docking System", *IEEE Transactions on Automation Science and Engineering*, Vol. 13, Issue: 1, 296 - 312, 2016, DOI: 10.1109/TASE.2014.2350031.
- R63 Goldberg, K.; Li, Y.; Sun, Y.; Fanti, M.; Hu, H. "Emerging Advances in Automation [From the Guest Editors]", *Robotics & Automation Magazine*, IEEE, 2015, Vol. 22, no. 2, Pages: 22 and 98, DOI: 10.1109/MRA.2015.2418516.
- R62 M. P. Fanti, A.M. Mangini, M. Roccotelli, W. Ukovich, "A District Energy Management Based on Thermal Comfort Satisfaction and Real-Time Power Balancing", *IEEE Transactions on Automation Science and Engineering*, vol. 12, no. 4, pp. 1271-1284, Oct. 2015.
- R61 M.P. Fanti, G. Iacobellis, W. Ukovich, V. Boschian, G. Georgoulas, C. Stylios "A Simulation Based Decision Support System For Logistics Management", *Journal of Computational Science*, vol. 10, pp. 86-96, 2015.
- R60 M. P. Fanti, A.M. Mangini, F. Mazzia, W. Ukovich, "A New Class of Consensus Protocols for Agent Networks with Discrete Time Dynamics", *Automatica*, vol. 54, n. 4, 2015, pp. 1-7, ISSN 0005-1098.
- R59 M. P. Fanti, G. Iacobellis, W. Ukovich, "A Risk Assessment Framework for Hazmat Transportation in Highways by Coloured Petri Nets", *IEEE Trans. On Systems, Man, and Cybernetics: Systems*, Vol. 45, n. 3, pp. 485- 495, 2015. DOI: 10.1109/TSMC.2014.2351373 .
- R58 C. Cassandras, M. P. Fanti, C. Hadjicostis, S. Reveliotis, C. Seatzu, "Guest Editorial Special Section on Advances in Discrete-Event Systems for Automation", *IEEE Transactions on Automation Science and Engineering*, vol. 11, no. 1, pp. 3-5, 2014. ISSN: 1545-5955.
- 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.

R55 N. Costantino, M. Dotoli, M. P. Fanti, M. Falagario, A.M. Mangini, F. Sciancalepore, W. Ukovich, "A Hierarchical Optimization Technique for the Strategic Design of Distribution Networks", Computers&Industrial Engineering, ISSN: 0360-8352, 66(4), 849–864, 2013.

R54 M. P. Fanti, A.M. Mangini, W. Ukovich, "Fault Detection by Labeled Petri Nets in Centralized and Distributed Approaches", IEEE Transactions on Automation Science and Engineering, vol. 10, no. 2, April 2013, pp. 392 - 404 ISSN: 1545-5955.

R53 M. P. Fanti, A.M. Mangini, M. Dotoli, W. Ukovich, "A Three Level Strategy for the Design and Performance Evaluation of Hospital Departments", IEEE Trans. on Systems, man, and Cybernetics. Part A: Systems and Humans, no. 4, vol. 43, July 2013, pp. 742-756, ISSN 2168-2216.

R52 M. P. Fanti, W. Ukovich, X. Xie, M.C. Zhou, "Guest Editorial on Health Care Management and Optimization", IEEE Transaction on System Man and Cybernetics – Part A, , no. 6, vol. 42, July 2012, pp. 1310 - 1313, ISSN 2168-2216.

R51 V. Boschian, M.P. Fanti, G. Iacobellis, W. Ukovich, "Analysis of Impact of ICT Solutions in International Freight Management", European Transport. International Journal of Transport Economics, Engineering and Law, no. 51, August 2012, pp. 1-16, ISSN 1825-3997.

R50 A. Bobbio, M. P. Fanti; S. Montani, "Special section: Dependable system modelling and analysis", Engineering Applications of Artificial Intelligence, June 2012, vol. 25, n. 4, 669-670, ISSN: 0952-1976.

R49 M. P. Fanti; S. Mininel; W. Ukovich; F. Vatta, "Modelling Alarm Management Workflow in Healthcare According to IHE Framework by Coloured Petri Nets", Engineering Applications of Artificial Intelligence, June 2012, vol. 25, n. 4, 728-733. ISSN: 0952-1976.

R48 N. Costantino, M. Dotoli, M. Falagario, M.P. Fanti, A.M. Mangini, "A model for supply management of agile manufacturing supply chain", International Journal of Production Economics, vol 135, no. 1, pp.451-457, January 2012, ISSN 0925-5273.

R47 N. Costantino, M. Dotoli, M. Falagario, M.P. Fanti, "Using Fuzzy decision making for supplier selection in Public procurement", Journal of Public Procurement, Vol. 11, n. 3, pp. 404-428, 2011.

R46 V. Boschian, M. Dotoli, M.P. Fanti, G. Iacobellis, W. Ukovich "A Metamodeling Approach to the Management of Intermodal Transportation Networks", IEEE Transactions on Automation Science and Engineering, vol. 8; p. 457-469, 2011, ISSN: 1545-5955.

R45 M. Dotoli, M.P. Fanti, A.M. Mangini, W. Ukovich, "Identification of the Unobservable Behaviour of Industrial Automation Systems by Petri Nets", Control Engineering Practice, vol. 19, 2011, pp. 958-966, ISSN 0967-0661.

R44 J.-M. Faure, M.P. Fanti, M. Dotoli, J. Zaytoon, Preface, Special Section: DCDS'09 – The 2nd IFAC Workshop on Dependable Control of Discrete Systems in Bari, Italy, 10th-12th June, 2009, Control Engineering Practice, Vol. 19, No. 9, 2011, pp. 927-928, ISSN 0967-0661.

R43 M. Dotoli, M.P. Fanti, A.M. Mangini, "A fault monitor for automated manufacturing systems using a hybrid Petri nets formalism", Transactions of the Institute of Measurement and Control, vol. 33, 1, 2011, pp. 149-167, ISSN 0142-3312.

R42 V. Boschian, M. Dotoli, M.P. Fanti, G. Iacobellis, W. Ukovich, "Metamodelling of Intermodal Transportation Networks for Performance Evaluation", European Transport.

International Journal of Transport Economics, Engineering and Law, no. 46, December 2010, ISSN 1825-3997.

R41 M. Dotoli, M.P. Fanti, A.M. Mangini, G. Stecco, W. Ukovich, "The Impact of ICT on Intermodal Transportation Systems: a Modelling Approach by Petri Nets", *Control Engineering Practice*, vol. 18, no. 8, pp. 893- 903, 2010.

R40 M. Dotoli, M.P. Fanti, A.M. Mangini, W. Ukovich, "On-line Fault Detection of Discrete Event Systems by Petri Nets and Integer Linear Programming", *Automatica*, vol 45, 2009, pp. 2665-2672, ISSN 0005-1098.

R39 N. Costantino, M. Dotoli, M. Falagario, M.P. Fanti, G. Iacobellis, "A Decision Support System Framework for Purchasing Management in Supply Chains", *Journal of Business and Industrial Marketing*, April 2009, Vol. 24 no.3-4, pp. 278-290, ISSN 0885-8624.

R38 M. Dotoli, M.P. Fanti, G. Iacobellis, A.M. Mangini, "A First Order Hybrid Petri Net Model for Supply Chain Management", *IEEE Transactions on Automation Science and Engineering*, vol. 6, no. 4, October 2009, New York, USA, ISSN 1545-5955.

R37 M. Dotoli, M.P. Fanti, A.M. Mangini, "Real Time Identification of Discrete Event Systems Using Petri Nets", *Automatica*, May 2008, vol. 44, no. 5, pp. 1209-1219, ISSN: 0005-1098,

R36 M. Dotoli, M.P. Fanti, A. Giua, C. Seatzu, "First-order hybrid Petri nets. An application to distributed manufacturing systems", *Nonlinear Analysis: Hybrid Systems*, vol. 2, no. 2, 2008, pp. 408-430, ISSN 1751-570X.

R35 M. Dotoli, M.P. Fanti, "Deadlock Detection and Avoidance Strategies for Automated Storage and Retrieval Systems," *IEEE Transactions on Systems Man and Cybernetics*, part C: Applications and reviews, vol. 37, no. 4, July 2007. ISSN: 1094-6977.

R34 M. Dotoli, M.P. Fanti, A.M. Mangini, "Fuzzy Multi-Objective Optimization for Network Design of Integrated e-Supply Chains", *International Journal on Computer Integrated Manufacturing*, vol. 20, no. 6, September 2007, pp. 588-601. ISSN: 0951-192X.

R33 M. Dotoli, M.P. Fanti, C. Meloni, "A signal timing plan formulation for urban traffic control", *Control Engineering Practice*, vol. 14, no. 11 , November 2006, pp. 1297-1311. ISSN: 0967-0661.

R32 M.P. Fanti, A. Giua, C. Seatzu, "Monitor design for Colored Petri Nets: an application to deadlock prevention in railway networks", *Control Engineering Practice*, Vol. 14, No.10, October 2006, pp. 1231-1247. ISSN: 0967-0661.

R31 M. Dotoli, M.P. Fanti, "An Urban Traffic Network Model via Coloured Timed Petri Nets", *Control Engineering Practice*, Vol. 14, No.10, October 2006, pp. 1213-1229. ISSN: 0967-0661.

R30 M. Dotoli, M.P. Fanti, "A Generalized Stochastic Petri Net Model for Supply Chain Management", *The Mediterranean Journal of Measurement and Control*, vol. 2, no. 1, January 2006, pp. 1-11, ISSN: 1743-9310.

R29 N. Costantino, M. Dotoli, M. Falagario, M.P. Fanti, G. Iacobellis, "Evaluating the Total Costs of Purchasing via Probabilistic and Fuzzy Reasoning," *Fuzzy Economic Review*, vol. 11, no.1, May 2006, pp. 69-92. ISSN: 1136-0593.

R28 M. Dotoli, M.P. Fanti, C. Meloni, M. Zhou, "Design and Optimization of Integrated E-Supply Chain for Agile and Environmentally Conscious Manufacturing", *IEEE Trans. on Systems, man, and Cybernetics. Part A: Systems and Humans*, vol. 36, no. 1, January 2006, pp.62-75. ISSN: 1083-4427.

- R27 A. Desrochers, T. J. Deal, M.P. Fanti, "Complex-Valued Token Petri nets", IEEE Transactions on Automation Science and Engineering, vol. 2, no. 4 October 2005, pp. 309-318, New York, USA, ISSN 1545-5955.
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