

DIPARTIMENTO DI
INGEGNERIA ELETTRICA
E DELL'INFORMAZIONE

POLITECNICO DI BARI
Codice AOD: 000
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Classif.: 1/13

Bari, 11 maggio 2015

Al Decano del Politecnico di Bari
Prof. Michele Napolitano
presso la Direzione Generale del Politecnico di Bari
SEDE

OGGETTO: Proposta di candidatura per i componenti interni del Consiglio di Amministrazione del Politecnico di Bari per il triennio 2015/2018, di cui alle lettere d) ed e) dell'art. 13, comma 3 dello Statuto.

La sottoscritta **Fanti Maria Pia**, nata a Siena il 21/2/1957, professore di I fascia (sett. scient. disc. **ING/INF-04**), in servizio presso il Dipartimento di Ingegneria Elettrica e dell'Informazione del Politecnico di Bari, in seguito al decreto del Decano n. 01/2015, propone la propria candidatura per i componenti interni del Consiglio di Amministrazione del Politecnico di Bari per il triennio 2015/2018, di cui alle lettere d) ed e) dell'art. 13, comma 3 dello Statuto.

Con osservanza

Prof. MARIA PIA FANTI

Curriculum Vitae
Attività didattica, scientifica e
organizzativa

Fanti Maria Pia

Professore I fascia
SSD *ING-INF/04* "Automatica"

Politecnico di Bari
Dipartimento di Ingegneria Elettrica e
dell'Informazione

MAGGIO 2015

1. DATI PERSONALI E ATTUALE POSIZIONE

Email: mariapia.fanti@poliba.it

Professore di I fascia SSD ING-INF/04 "Automatica" Politecnico di Bari, Dipartimento di Ingegneria Elettrica e dell'Informazione.

Presidente del Consiglio di Amministrazione dello spin off "Automation in Logistics and Service Systems (AutoLogS s.r.l.)", spin off Interuniversitario del Politecnico di Bari e dell'Università di Trieste (in caso di elezione come componente del Consiglio di Amministrazione del Politecnico di Bari la sottoscritta presenterà le proprie dimissioni).

2. POSIZIONI PRECEDENTEMENTE RICOPERTE

- **Ricercatore universitario** presso la Facoltà di Ingegneria, sett. **K04X**, dal 16-5-1990,
- **ricercatore confermato** dal 16-5-1993 al 31-10-1998,
- **professore associato** sett **ING-INF/04 "Automatica"** presso la 1° facoltà di Ingegneria del Politecnico di Bari dal 1° novembre 1998, confermato dal 1° novembre 2001.
- **Idonea nella Valutazione Comparativa per n. 1 posto di Professore di prima fascia** per il Settore Scientifico Disciplinare ING-INF04, "AUTOMATICA" presso la 1a Facoltà di INGEGNERIA del Politecnico di Bari (D.R. n. 265 del 24.06.2008, G.U. n. 50 del 27.06.2008).
- **professore straordinario** sett **ING-INF/04 "Automatica"** presso la 1° facoltà di Ingegneria del Politecnico di Bari dal 27 aprile 2012.

3. FORMAZIONE E RICONOSCIMENTI OTTENUTI

- Laureata in **INGEGNERIA ELETTRONICA** presso l'**Università degli Studi di Pisa** il 28-3-1983 con la votazione di 110/110, con la tesi in *Analisi dei segnali* dal titolo "SISTEMI DI TRASMISSIONE NUMERICA CON MODULAZIONE M.S.K.", relatore il Chiar.mo Prof. Umberto Mengali;
- **ha vinto il premio laurea "una tantum"** della IBM-ITALIA bandito con D.R. n. 2740 del 14-5-84 Università degli Studi di Bari;
- ha frequentato il Dipartimento di Elettrotecnica ed Elettronica dell'Università degli Studi di Bari a partire dal 21-4-1983, collaborando a vari progetti di ricerca coordinati dal Prof. Bruno Maione.
- ha vinto una **borsa di studio** biennale (1986 - 1988) bandita dalla società **SELENIA** per una ricerca nelle seguenti aree: "Tecniche per la valutazione degli indici di

prestazione dei sistemi flessibili di produzione - Problemi di ottimizzazione relativi ai sistemi flessibili di produzione e tecniche risolutive";

- in qualità di "Visiting Research Scholar" ha frequentato dal 1 agosto 1999 al 30 settembre 1999 il Rensselaer Polytechnic Institute, Troy, NY, USA, per una collaborazione di ricerca con il professor Alan Desrochers;
- **2002** - oggi **Senior Member** della IEEE society;
- **marzo 2005** – oggi **Chair** e fondatore della **Chapter for IEEE Central & South Italy– Systems, Man, and Cybernetics Society**;
- **2005** – oggi **Co-chair del Technical committee on Discrete Event Systems** per la IEEE society Systems, Man, and Cybernetics;
- membro del **IFAC Technical Committee 1.3 on Discrete Event and Hybrid Systems**;
- **2005**- attestato del merito scientifico per attività di Professori di I fascia (domande presentate entro 31/5/2005) (la valutazione è all'indirizzo http://www.elet.polimi.it/CIRA/I_fascia_dicembre_2005.htm);
- **2008** vincitore del "**IEEE SMC Best Associate Editor Award**",
- **2008** vincitore del "**Most Active Technical Committee Award of the SMC Society**" in quanto co-chair del technical committee on Discrete Event Systems, in occasione,

SERVIZI PRESTATI NEGLI ATENEI

ATTUALI:

1. **Membro della giunta di dipartimento** in qualità di rappresentante dei professori di I fascia.
2. **2013-2015 Vice direttore del Dipartimento di Ingegneria Elettrica e dell'Informazione.**

SERVIZI PRESTATI:

3. Partecipazione alla ristrutturazione degli studi di Ingegneria facendo parte della **commissione didattica** del corso di laurea di Ingegneria Elettrica.
4. **Membro della giunta di dipartimento** in qualità di rappresentante dei professori di II fascia dal A.A. 2000-2001 all'A.A. 2006-2007.
5. Membro aggregato della **Commissione Esami di Stato** per Ingegneri istituita presso il Politecnico di Bari nella I e II sessione dell'a.a. 2006-2007.
6. Componente della **Commissione Didattica** del corso di Laurea in Ingegneria Informatica dall'A.A. 2006-2007 a tutt'oggi.

7. **Incarico di valutazione tecnico scientifica** di progetti nell'ambito del Programma Operativo Plurifondo della regione Puglia 199, Misura 7.4 "Ricerca, Sviluppo e Innovazione", richiesta dal **Consorzio Interuniversitario Regionale Pugliese**. Nell'ambito dello stesso progetto è stata nominata "monitore tecnico scientifico" per effettuare l'azione di verifica necessaria per l'attuazione del progetto.
8. **Responsabile** dell'iniziativa ORI 2 nell'ambito del **progetto PON 2000-2006** Misura III.5- "Adeguamento del sistema della formazione professionale, dell'istruzione e dell'alta formazione".
9. Componente della **commissione giudicatrice** della procedura di valutazione comparativa per la copertura di **1 posto di ricercatore universitario di ruolo, settore scientifico disciplinare ING-INF/04 "Automatica"** Università di Brescia, (2005).
10. Componente della **II° Commissione scientifica di Ingegneria Industriale e dell'Informazione** della Facoltà per il triennio 2003-2006.
11. Componente della **commissione giudicatrice** della procedura di valutazione comparativa per la copertura di **1 posto di ricercatore universitario di ruolo, settore scientifico disciplinare ING-INF/04 "Automatica"** Università Politecnica delle Marche, (GU 55 del 13/07/2004).
12. Componente della **Commissione Orari** della Facoltà dall'A.A. 2000-2001 all'A.A. 2003-2004.
13. Componente della **commissione per il concorso pubblico di dottorato di ricerca in Ingegneria Elettrotecnica** XIX ciclo, A.A. 2003-2004.
14. Componente della **Commissione Programmazione Biennale** del Corso di Laurea in Ingegneria Elettrica, A.A. 2000-2001, 2001-2002.
15. Componente della **commissione per il concorso pubblico di dottorato di ricerca in Ingegneria Elettrotecnica** XVII ciclo, A.A. 2001-2002.
16. Membro aggregato della **Commissione Esami di Stato** per Ingegneri istituita presso il Politecnico di Bari nella I e II sessione dell'a.a. 1995-1996.
17. **Membro della giunta di dipartimento** in qualità di rappresentante dei professori di II fascia per il triennio 2009-2012.
18. **Membro della giunta di facoltà** in qualità di rappresentante dei professori di II fascia per il triennio 2009-2012.

4. ATTIVITA' DIDATTICA

4.1 Attività didattica istituzionale

4.1.1 Incarichi di insegnamento attuali

1. **Modellistica e Simulazione** 6 CFU (ING-INF/04) corso di laurea magistrale in Ing. Elettronica e Ingegneria Informatica, Università di Trieste, da A.A. 2009-2010 a A.A. 2014-2015
2. **Metodi e Modelli per Ingegneria** 6 CFU (ING-INF/04) corso di laurea triennale in Ing. Informatica e dell'automazione (classe 9, L-8 ing. dell'Informazione), da A.A. 2009-2010 a A.A. 2014-2015.
3. **Modellistica e Controllo dei Sistemi ad Eventi Discreti** 6 CFU (ING-INF/04) del corso di laurea magistrale in Ing. Informatica (classe 35/S) da A.A. 2010-2011 a A.A. 2014-2015.
4. **Stima e Controllo dei Sistemi dinamici** 6 CFU (ING-INF/04) del corso di laurea magistrale in Ing. Dell'Automazione (classe 35/S) da A.A. 2013-2014 a A.A. 2014-2015.
5. **Fondamenti di Automatica I modulo** 6 CFU (ING-INF/04) corso di laurea triennale in Ing. Informatica e dell'automazione (classe 9, L-8 ing. dell'Informazione), da A.A. 2014-2015.

4.1.2 Incarichi di insegnamento tenuti in qualità di professore associato

1. **Automazione Industriale** 6 CFU (ING-INF/04), corso di laurea triennale in Ing. Gestionale (classe 10, L-9 ing. Industriale), dall'A.A. 2003-2004, all'AA 2008-2009.
2. **Automazione Industriale** 6 CFU (ING-INF/04), corso di laurea specialistica in Ing. Meccanica (classe 36/S) da A.A. 2003-2004, a A.A. 2008-2009.
3. **Modellistica e Controllo di Sistemi di Produzione** 6 CFU (ING-INF/04), corso di laurea specialistica in Ing. Informatica (classe 35/S) da A.A. 2005-2006; a A.A. 2009-2010.
4. **Modellistica e Controllo di Sistemi di Produzione** 6 CFU (ING-INF/04), corso di laurea specialistica in Ing. dell'Automazione (classe 29/S) da A.A. 2005-2006; a A.A. 2009-2010.
5. **Controlli Automatici II** 6 CFU (ING-INF/04) corso di laurea specialistica in Ing. Elettrica (classe 31/S) da A.A. 2005-2006, a A.A. 2009-2010.
6. **Controllo dei Processi I** 6 CFU (ING-INF/04) corso di laurea triennale in Ing. Informatica (classe 9, L-8 ing. dell'Informazione), da A.A. 2007-2008, a A.A. 2009-2010.

7. **Tecniche di sintesi di sistemi di controllo** 2,5 CFU (ING-INF/04), Master in "Innovazione Tecnologica nella Meccatronica" del Politecnico di Bari, A.A. 2006-2007.
8. **Fondamenti di Automatica I** 6 CFU (ING-INF/04) corso di laurea triennale in **Ing. Elettronica** (classe 9, L-8 ing. dell'Informazione), A.A. 2004-2005.
9. **Fondamenti di Automatica II** 6 CFU (ING-INF/04) corso di laurea triennale in **Ing. Elettronica** (classe 9, L-8 ing. dell'Informazione) (ING-INF/04), A.A. 2004-2005.
10. **Controlli Automatici I** 9 CFU (ING-INF/04) corso di laurea triennale in **Ing. Elettrica** (classe 10 L-9 ing. Industriale), A.A. 2002-2003;
11. **Controlli Automatici** (ING-INF/04) corso di laurea quinquennale in **Ing. Elettrica** da A.A. 1998-99, a A.A. 2003-2004;
12. **Controlli Automatici** (ING-INF/04) corso di diploma in **Ing. Elettrica** da A.A. 1998-99, a A.A. 2000-2001.

4.1.3 Incarichi di insegnamento tenuti in qualità di ricercatore confermato

1. **Controlli Automatici** (ING-INF/04), corso di laurea quinquennale in **Ing. Meccanica**, A.A. 1994-95, 1995-96, 1996-97, 1997-98;
2. **Controlli Automatici** (ING-INF/04), corso di laurea quinquennale in **Ing. Elettrica** A.A. 1994-95, 1995-96, 1996-97, 1997-98.

4.2 Altre attività didattiche

4.2.1 Attività didattiche svolte all'estero

1. Seminario (3 ore) "**Deadlock problems solved by graph theoretic approaches**" presso la School of Electro-Mechanical Engineering, Xidian University, Xi'an, China, 25 giugno 2008.
2. Lezione (3 ore) "**Modelling by Petri nets: Basic concepts and applications to the hospital management**" nell'ambito della **Fourth Spring School on ICT, economical and organizational issues for e-health integration in the enlarged Europe**, Capo d'Istria, Slovenia, 26-29 giugno 2008.
3. Seminario (2 ore) "**Comparing Digraph and Petri Net Approaches to deadlock Avoidance in FMS**" presso il Electrical, Computer, and Systems Engineering Department, **Rensselaer Polytechnic Institute**, Troy, New York, 9 settembre 1999.
4. Seminario (2 ore) "**Fault Detection by Labeled Petri Nets in Centralized and Distributed Approaches**" presso la School of Electro-Mechanical Engineering, Xidian University, Xi'an, China, 21 novembre 2014.

5. Seminario (2 ore) **"Quantized Consensus Algorithm for Distributed Task Assignment: Results and Applications"** presso la School of Electro-Mechanical Engineering, Xidian University, Xi'an, China, 20 novembre 2014.
6. Seminario (2 ore) **"Modelling, simulation and control by discrete event system approaches: research projects and application fields"** Automated Production Research Laboratory, Ecole Normale Supérieure de Cachan.

4.3 Libri a scopi didattici

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

4.4 Attività di tutorato

1. Dal 1990 è **stata relatore e correlatore** di diverse tesi di laurea su modellizzazione e controllo di sistemi ad eventi discreti, modellistica e controllo di sistemi manifatturieri, metodi di soluzione per evitare e risolvere il deadlock nei sistemi manifatturieri e nei sistemi automatizzati di trasporto, metodi di ottimizzazione e di gestione nel traffico stradale e ferroviario.
2. **Membro del collegio del dottorato di ricerca in ingegneria Elettrotecnica**, Politecnico di Bari;
3. **Membro del collegio del dottorato di ricerca in ingegneria dell'Informazione**, Politecnico di Bari.
4. **Membro del collegio dei docenti della scuola di dottorato in ingegneria dell'Informazione** dell'Università di Trieste.
5. **Tutore dell'ing. Giorgio Iacobellis**, per una borsa di studio post Laurea da usufruire da febbraio 2005 a febbraio 2006 presso il Dipartimento di Elettrotecnica ed Elettronica del Politecnico di Bari.
6. **Tutore dell'ing. Agostino Mangini**, dal 3 marzo 2005 al 3 marzo 2008 per il dottorato di ricerca in Ingegneria Elettrotecnica, XX ciclo, presso il Dipartimento di Elettrotecnica ed Elettronica del Politecnico di Bari.
7. **Tutore dell'ing. Giorgio Iacobellis**, da maggio 2006 a maggio 2009 per il dottorato di ricerca in Ingegneria dell'Informazione, presso il Dipartimento di Elettrotecnica ed Elettronica del Politecnico di Bari.
8. **Tutore accademico dell'ing. Mario Di Palo** per il master universitario di II livello in "Innovazione Tecnologica nella Meccatronica (MIMEC)", A.A. 2007-2008.
9. **Tutore dell'ing. Giuliano Rotunno**, dal 5 maggio 2010 per la scuola di dottorato in ingegneria dell'Informazione dell'Università di Trieste.

10. **Tutore dell'ing. Giovanni Petroncelli**, dal 1 gennaio 2012 per la scuola di dottorato in ingegneria dell'Informazione dell'Università di Trieste.
11. **Tutore dell'ing. Michele Roccotelli**, dal 1 gennaio 2013 per il dottorato di ingegneria elettrica e dell'informazione del Politecnico di Bari.

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5. ATTIVITA' ORGANIZZATIVE ED EDITORIALI

5.1 Attività editoriale

1. 2004 - oggi *Associate editor* di "IEEE Transactions on Systems, Man and Cybernetics: Part A. Systems and Humans".
2. 2005 - 2011 *Associate editor* di "IEEE Transactions on Automation Science and Engineering".
3. 2012 - oggi *Editor* di "IEEE Transactions on Automation Science and Engineering".
4. *Guest editor* di "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.
5. 2007 - 2013 *Associate editor* di "Enterprise Information Systems" Taylor & Francis Group.
6. *Associate editor* di "The Mediterranean Journal of Measurement and Control";
7. Membro dell'editorial board di "International Journal of Automation and Control" (IJAAC) ISSN (Print): 1740-7516.
8. **Editor della special issue "Health Care Management and Optimization"** (eds: Maria Pia Fanti, Walter Ukovich, Xiaolan XIE, and Mengchu Zhou). IEEE Trans. on SMC: Part A.
9. **Editor della special issue "Advances in Discrete Event Systems for Automation"** for the IEEE TRANSACTIONS ON AUTOMATION SCIENCE AND ENGINEERING (eds. C. Cassandras, M. P. Fanti, C. Hadjicostis, S. Reveliotis, C. Seatzu).
10. 2008-2011 membro del Board of Governor of the **IEEE System, Man, and Cybernetics Society**.
11. 2010 ad oggi rappresentante scientifico per il Politecnico di Bari nell'ICOOR "Interuniversity Consortium for Optimization and Operations Research".
12. **2012- oggi Fondatore e Chair del Technical committee on Automation On Logistics** della IEEE Robotics and Automation Society;
13. **2013 Fondatore del Technical committee on Automation in Healthcare Management** della IEEE Robotics and Automation Society;
14. 2012-2014 vice chair della **IEEE Italy Section**,
15. 2013-2015 member at large del Board of Governor of the **IEEE System, Man, and Cybernetics Society**.

5.2 Organizzazione di eventi scientifici in sede internazionale

1. **General Chair** della conferenza internazionale 2nd IFAC Workshop on Dependable Control of Discrete Systems (IFAC DCDS'09), Bari, 10-12 giugno 2009.
2. **Co-Chair** del THE THIRD INTERNATIONAL WORKSHOP ON INTELLIGENT VEHICLE, Milano July 4-5, 2009, a satellite event of ICINCO 2009, 6th International Conference on Informatics in Control, Automation and Robotics, Milano, July 2-4, 2009.
3. **Program Co-Chair** del 2009 IEEE Conference on Automation Science and Engineering August 22-25 2009, Bangalore, India.
4. **Program Co-Chair** del 2009 IEEE Conference on System, Man, and Cybernetics, October 11-14 2009, San Antonio, Texas, USA.
5. **General Chair** del 2010 IEEE Workshop on Health Care Management (WHCM) Venice, Italy, February 18-20, 2010
6. **Program Co-Chair** del 2010 IEEE Conference on Automation Science and Engineering, CASE 2010, Aug. 21-24, 2010 Toronto, Canada
7. **General Chair** del 2011 IEEE Conference on Automation Science and Engineering, CASE 2011, Aug. 24-27, 2011 Trieste, Italy.
8. **Chair della track "Automated manufacturing Systems"** at the 18th International Conference on Emerging Technologies and factories Automation, 10-13 September 2013, Cagliari, Italy.
9. **Organizer of the workshop "New Challenges and Results in Health Care Management"** at the 18th International Conference on Emerging Technologies and factories Automation, 10-13 September 2013, Cagliari, Italy.
10. Organizer of the EMSS 2013 Track "Advanced Simulation for Logistics Systems", Organizers Maria Pia Fanti, Chrysostomos Stylios, Walter Ukovich, 25 - 27 September 2013, Royal Olympic, Athens, Greece
11. IEEE SMC 2013: organizer of the Special session on "Discrete Event Systems", Organizers: Maria Pia Fanti, October 13-16, 2013, Manchester, UK.
12. IFAC MIM 2013: organizer of the Special session on "Product Lifecycle Management and Product Design Support Systems Session" Organizers: Joachim Lentjes, Maria Pia Fanti, Walter Ukovich.
13. IEEE ETFA 2013: organizer of the Workshop: New Challenges and Results in Health Care Management. Organizers: Maria Pia Fanti, Walter Ukovich, 10-13 September 2013, Cagliari, Italy.

14. IEEE CDC 2013: organizer of the Special session on the Integration of Behavioral and Performance Control in Discrete Event Systems Theory, Organizers: Spyros Reveliotis and Rong Su, Florence, Italy.
15. IEEE CDC 2013: organizer of the Invited Session on "Modeling, Coordination and Consensus Agreement in Multi-Component Systems: Part A Theory", Organizers: Maria Pia Fanti and Christoforos N. Hadjicostis Florence, Italy.
16. IEEE CDC 2013: organizer of the Invited Session on "Modeling, Coordination and Consensus Agreement in Multi-Component Systems: Part B Applications" Organizers: Maria Pia Fanti and Christoforos N. Hadjicostis.
17. IEEE ETFA 2014: organizer of the Workshop: Advanced Platform for manufacturing Engineering and Product Lifecycle Management, Organizers: Maria Pia Fanti, Walter Ukovich

5.3 Membro dell' "International Program Committee" delle seguenti conferenze internazionali

1. IEEE Int. Conference on Systems, Man, and Cybernetics" Hyatt Orlando, Florida, USA, October 12-15, 1997.
2. IEEE Int. Conference on Systems, Man, and Cybernetics" Hyatt Regency La Jolla, San Diego, California, USA, October 11-14, 1998.
3. IEEE Int. Conference on Emerging Technologies and Factory Automation, ETFA'99, October 18-22 1999, Barcelona, Catalonia.
4. Fifth Multi-Conference on Systemics, Cybernetics and Informatics, July 22-25, 2001, Orlando, Florida, USA.
5. Sixth World Multi-Conference on Systemics, Cybernetics and Informatics July 14-18, 2002, Orlando, Florida, USA.
6. IEEE International Conference on Systems, Man and Cybernetics, October 5-8, 2003, Washington, D.C., USA.
7. IEEE Int. Conference on Systems, Man, and Cybernetics The Hague, The Netherlands, October 2004.
8. IEEE Int. Conference on Systems, Man, and Cybernetics Hawaii, USA, October 2005.
9. IFAC International Workshop on Discrete Event Systems, Reims, France, 2004.
10. 2005 IEEE International Conference on Service Operations and Logistics, and Informatics, Aug. 10-12, 2005, Beijing.
11. IEEE Int. Conference on Systems, Man, and Cybernetics Taipei, Taiwan, October 2006.

12. The 9th International Conference on Information Fusion FLORENCE (ITALY), 10-13 JULY 2006.
13. ICRA'07. 2007 IEEE International Conference on Robotics and Automation 10-14 April 2007, Roma, Italy
14. 1st IFAC WORKSHOP ON DEPENDABLE CONTROL OF DISCRETE SYSTEMS, DCDS'07, Paris-Cachan, France, June 13-15, 2007
15. IEEE International Conference on Systems, Man, and Cybernetics. Montréal, Canada, October 7-10, 2007.
16. IEEE Int. Conference in Automation Science and Engineering, CASE 2007, Sept 22 – 25, 2007, Scottsdale, Arizona, USA.
17. ICRA'08, 2008 IEEE International Conference on Robotics and Automation, Pasadena, California, USA, on May 19-23, 2008
18. WODES'08 International Workshop on Discrete Event Systems, May 28-30, 2008 Goteborg, Sweden.
19. Workshop on Petri Nets and Agile Manufacturing June 24-25, 2008 - Xi'an, China, a satellite event of the Petri Nets 2008, 29th International Conference on Application and Theory of Petri Nets and Other Models of Concurrency Xi'an, China, June 23-27, 2008.
20. IEEE Int. Conference in Automation Science and Engineering, CASE 2008, Aug. 28 – 31, 2008, Whashington, D.C., USA.
21. IEEE International Conference on Systems, Man, and Cybernetics. 2008, 12 - 15 October 2008, Singapore.
22. 10th Int. Workshop on Discrete Event Systems, Aug. 30-Sep. 1, 2010, Berlin, Germany.
23. DCDS'11 3rd International Workshop on Dependable Control of Discrete Systems, Saarbrücken, Germany , June 15 - 17, 2011.
24. WODES 2012 International Workshop on Discrete Event Systems, October 3-5, 2012 Guadalajara, Mexico
25. The 24th European Modeling & Simulation Symposium (Simulation in Industry), September, 19-21, 2012, Wien, Austria.
26. 34th INTERNATIONAL CONFERENCE ON APPLICATION AND THEORY OF PETRI NETS AND CONCURRENCY, Milano, Italy, June 24–28, 2013.
27. 2013 IEEE International Conference on Robotics and Automation, Karlsruhe - Germany - May 6 - 10, 2013.
28. DCDS 2013 4th IFAC Workshop on Dependable Control of Discrete Systems, September 4-6, University of York, UK

29. 8th IEEE International Conference on Emerging Technologies & Factory Automation, 10-13 September 2013, Cagliari, Italy.
30. IEEE CDC 2013: organizer of the Special session on the Integration of Behavioral and Performance Control in Discrete Event Systems Theory. Organizers: Spyros Reveliotis and Rong Su, Florence, Italy.
31. IEEE CDC 2013: organizer of the Invited Session on "Modeling, Coordination and Consensus Agreement in Multi-Component Systems: Part A Theory", Organizers: Maria Pia Fanti and Christoforos N. Hadjicostis Florence, Italy.
32. IEEE CDC 2013: organizer of the Invited Session on "Modeling, Coordination and Consensus Agreement in Multi-Component Systems: Part B Applications" Organizers: Maria Pia Fanti and Christoforos N. Hadjicostis.
33. IEEE ETFA 2014: organizer of the Workshop: Advanced Platform for manufacturing Engineering and Product Lifecycle Management, Organizers: Maria Pia Fanti, Walter Ukovich.
34. IEEE CDC 2014: organizer of the Invited Session on "Modeling, Coordination and Consensus Agreement in Multi-Component Systems" Organizers: Maria Pia Fanti and Christoforos N. Hadjicostis.
35. DCDS 2015, Member of the steering committee, 5th int. Workshop on Dependable Control of Discrete Systems, Cancun, Mexico, May 27-29, 2015.
36. IEEE SMC-2015, Special sessions chair, Hong Kong, October 10-13, 2015.
37. Editor of the IEEE CASE 2015, 11th IEEE Int. Conference on Automation Science and Engineering, Gothenburg, Sweden, August 24-28, 2015.

6. ATTIVITA' DI RICERCA

Collaborazioni scientifiche con università ed industrie.

1. **Università di Cagliari**, Prof. Alessandro Giua, Prof. Carla Seatzu.
2. **Università di Trieste**, Prof. Walter Ukovich.
3. **Università di Venezia** prof. Raffaele Pesenti.
4. **Università di Genova**, prof. R. Minciardi, prof. S. Sacone, prof. R. Sacile
5. **Polytechnic Institute of Troy, NY, USA**, Prof. Frank Di Cesare, Prof. Alan Desrochers, sulla definizione delle Reti di Petri con gettoni complessi (dal 1999 al 2005). Come "Visiting Research Scholar" ha frequentato dal 1 agosto 1999 al 30 settembre 1999 il Rensselaer Polytechnic Institute.
6. **New Jersey Institute of Technology, USA**, Prof. MengChu Zhou.
7. **École Normal de Cachan, Francia**, Prof. Jean-Jacques Lesage.
8. **Laboratory of Knowledge and Intelligent Computing (KIC)**, Dept. of Informatics and Communications Technology, Technological Educational Institute of Epirus, Artas, Greece
9. **Società SELENIA** dal 1986 al 1988 per una ricerca nelle seguenti aree: "Tecniche per la valutazione degli indici di prestazione dei sistemi flessibili di produzione - Problemi di ottimizzazione relativi ai sistemi flessibili di produzione e tecniche risolutive";
10. **Autamarocchi** (sviluppo di sistemi di gestione di flotte e veicoli)
11. **Colussi S.p.A.** (ottimizzazione del sistema logistico di distribuzione)
12. **OM Carrelli elevatori S.p.A.** (soluzioni per la logistica di magazzino, pianificazione e gestione dei processi produttivi)
13. **Teorema Engineering s.r.l.** (logistica intermodale)
14. **Terminal Intermodale di Trieste - Ferneti S.p.A.** (logistica intermodale)
15. **Acciaierie Bertoli Safau** (schedulazione e pianificazione della produzione)
16. **Insiel Mercato** (organizzazione e gestione dei sistemi sanitari)
17. **Policlinico di Bari** (organizzazione e gestione dei sistemi sanitari)
18. **Insiel FVG** (logistica intermodale, gestione di trasporti di merci pericolose)
19. **AMIU - Bari** (metodologie ed algoritmi per la razionalizzazione di un sistema di raccolta dei rifiuti solidi urbani)
20. **Eurocontrol** (gestione del traffico aereo)
21. **Comune di Bari** (mobilità urbana)
22. **Autovie Venete, Insiel FVG** (gestione del trasporto di merci pericolose)

mi

Attività in progetti di ricerca

- Scientific responsible of research unit in the project PON Codice progetto: PON04a2 (LAMRECOR) “LOGISTICA AVANZATA PER LA MOBILITÀ DI PERSONE E MERCI: MODELLI MATEMATICI E SPERIMENTAZIONI PER NUOVI PROTOCOLLI DI RECAPITO DELLA CORRISPONDENZA”, 2012-2014.
- Scientific responsible of research unit in the project PON Codice progetto: PON04a2 (RES NOVAE) “Reti, Edifici, Strade - Nuovi Obiettivi Virtuosi per l’Ambiente e l’Energia”, 2012-2014.
- Scientific responsible of research unit in the project PON “Mechatronic innovative safety systems (wired and wireless) for railway, aerospace and robotic applications (MASSIME)”, 2012-2014.
- Scientific responsible of research unit in the project “ Medical applications for the next future (NEXMEDIA).” 2012-2014.
- Chair of the research with the company Colussi s.p.a. 2010.
- SLIMPORT (Industria 2015), “ICT system addressed to integrated logistic management and decision support for intermodal port and inland port facilities”.
- Supervisor di SAIL – ICT system addressed to integrated logistic management and decision support for intermodal port and dry port facilities. EU Commission, 7° FP - Marie Curie IAPP.
- Collaboratore nel progetto 7FP amePLM “advanced Platform for manufacturing engineering and Product Lifecycle Management”.
- Responsabile scientifico del contratto tra il DEE del Politecnico di Bari e il DEEI dell’università di Trieste, per progetto di ricerca “REALIZZAZIONE DI STRUMENTI DI SIMULAZIONE PER SISTEMI LOGISTICI INTEGRATI E INTERMODALI, anno 2007.
- Responsabile scientifico dell’Unità di Ricerca del Politecnico di Bari del programma di ricerca PRIN 2007 “Modelli decisionali per la progettazione e la gestione di reti logistiche caratterizzate da elevata interoperabilità e da integrazione informativa”, coordinatore nazionale prof. R. Minciardi.
- Responsabile scientifico del progetto “Modellistica e controllo di sistemi logistici caratterizzati da elevata integrazione informativa”, durata 12 mesi, anno 2008, finanziato dalla Fondazione Caripuglia.
- Responsabile scientifico dell’Unità di Ricerca del Politecnico di Bari del programma di ricerca PRIN 2005 “Analisi, ottimizzazione e coordinamento nei sistemi logistici e produttivi dei distretti industriali”, coordinatore nazionale prof. R. Minciardi.

- Membro dell'Unità di Roma Tre nel Progetto COFIN 2003-2005, "Modelli per l'ottimizzazione, il controllo e il coordinamento di sistemi di produzione distribuiti" coordinatore nazionale prof. R. Minciardi.
- Progetto di Sistema Innovativo di Iniezione per motori Heavy-Duty con il Centro Ricerche Fiat di Valenzano (BA) nell'ambito del Programma Operativo Nazionale 2000-2006 "Ricerca Scientifica, Sviluppo Tecnologico, Alta Formazione".
- Progetto SIDART "Sistema integrato per la diagnostica dei beni artistici", nell'ambito del PON 2002-2005 unità di ricerca del Dipartimento di Elettrotecnica ed Elettronica.
- MURST 40% coordinatore locale Prof. B. Maione, coordinatore nazionale prof. F. Nicolò: "Modelli deterministici per controllo in tempo reale di FMS" (1986), "Automazione nei sistemi flessibili di produzione" (1988-1989), "Gestione dei flussi nei Sistemi Flessibili di Produzione" (1990-1991-1992); "Programmazione e controllo della produzione nei sistemi flessibili di lavorazione" (1993-1994-1995). "Gestione integrata di agenti produttivi autonomi" (1996), "Autocoordinamento di Agenti Autonomi" (1997-1998), "Controllo di sistemi con Agenti Autonomi" (1999).
- Progetto integrato CNR/università "Sviluppo di un ambiente di progettazione integrata (meccatronica) orientato ai sistemi di lavorazione meccanica avanzati", 1996.
- C.N.R. Progetto Finalizzato Tecnologie Meccaniche, sottoprogetto: *Sistema*, 1985-1991.
- C.N.R. Progetto Finalizzato Robotica, sottoprogetto: *Controllo dei Robot*, 1989-1993.

Temi principali di ricerca.

- Proprietà strutturali dei sistemi dinamici lineari e tempo-invarianti
- Modellistica e controllo di sistemi ad eventi discreti: applicazioni ai sistemi automatizzati di produzione
- Analisi e soluzione del problema del deadlock nei sistemi ad eventi discreti
- Modellistica, progetto e gestione delle catene di produzione
- Modellistica e controllo delle reti di traffico urbano
- Identificazione e fault detection nei sistemi ad eventi discreti
- Modellistica e gestione dei sistemi sanitari
- Definizione, analisi e applicazioni di algoritmi di consenso

non

ELENCO DELLE PUBBLICAZIONI

Fanti Maria Pia è autore circa 234 pubblicazioni così suddivise:

2 libri,

62 articoli pubblicati o in fase di pubblicazione su riviste internazionali,

6 articoli pubblicati su riviste a distribuzione nazionale,

10 capitoli di libri a diffusione internazionale,

154 articoli pubblicati su atti di conferenze internazionali

Libri

- 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.

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- R62 M.P. Fanti, G. Iacobellis, W. Ukovich, V. Boschian, G. Georgoulas, C. Stylios "A Simulation Based Decision Support System For Logistics Management", accepted on *International Journal of Computational Sciences*, 2014.
- R61 M. P. Fanti, G. Stecco, W. Ukovich, "Scheduling Internal Operations in a Post-Distribution Cross Docking System", accepted on *IEEE Transactions on Automation Science and Engineering*, 2014.
- 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.
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- R17 M.P. Fanti, B. Maione, B. Turchiano, "Comparing Digraph and Petri Net Approaches to Deadlock Avoidance in FMS", *IEEE Trans. on Systems, Man and Cybernetics. Part B: Cybernetics*, vol. 30, no. 5, pp. 783-798, October 2000, USA. ISSN: 1083-4419.
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- R8 M.P. Fanti, B. Maione, G. Piscitelli, B. Turchiano "System Approach to Design Generic Software for Real-Time Control of Flexible Manufacturing Systems" *IEEE Trans. on Systems, Man, and Cybernetics, Part A: Systems and Humans*, vol. 26, no. 2, pp. 190-202, 1996. ISSN: 1083-4427.
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- 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.
- L3 M.P. Fanti, "Deadlock-Free Control in Automated Guided Vehicle Systems", *Concurrency in Dependable Computing*, P. Ezhilchelvan and A. Romanovsky Eds., Kluwer Academic Publishers. Boston Hardbound, June 2002.
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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.
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- 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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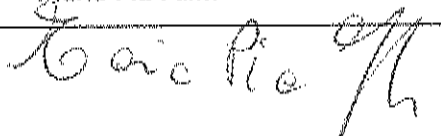
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Bari, 11 maggio 2015

Maria Pia Fanti

A handwritten signature in black ink, appearing to read 'Maria Pia Fanti', written over a horizontal line.