

FORMATO EUROPEO
PER IL CURRICULUM
VITAE



INFORMAZIONI PERSONALI

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ESPERIENZA LAVORATIVA

luglio 1996 – 31 ottobre 2001
1 novembre 2000 – 29 dicembre 2015
30 dicembre 2015 - oggi

- Principali mansioni e responsabilità

Ricercatore universitario (raggruppamento disciplinare I17X – Elettrotecnica) presso il Dipartimento di Ingegneria Elettrica dell'Università Sapienza di Roma

Professore II fascia (raggruppamento disciplinare I17X – Elettrotecnica) presso il Dipartimento di Ingegneria Elettrica dell'Università Sapienza di Roma

Professore I fascia (raggruppamento disciplinare I17X – Elettrotecnica) presso il Dipartimento di Ingegneria Astronautica, Elettrica ed Energetica dell'Università Sapienza di Roma

Ricerca scientifica nell'ambito della compatibilità elettromagnetica e del calcolo numerico di campi elettromagnetici.

Affidamento di innumerevoli corsi del settore ING-IND/31 presso l'Università Sapienza di Roma:

- Elettrotecnica (Laurea in Ingegneria Chimica, CFU=9) dall'a.a. 2007-2008 ad oggi)
- Complementi di elettrotecnica (Laurea magistrale Ingegneria Elettrotecnica, 9 CFU) dall'a.a. 2011-2012 ad oggi.
- Elettrotecnica (Laurea in Ingegneria Energetica, 9 CFU), a.a. 2016-2017.
- Elettrotecnica (Laurea in Ing. Chimica, CFU=6), dall'a.a. 2004-05, all'a.a. 2006-2007.
- Elettrotecnica (Laurea in Ing. Clinica, CFU=6), a.a. 2004-05, 2005-06, 2006-07.
- Elettrotecnica (Laurea in Ing. Aerospaziale, CFU=6), dall'a.a. 2001-02 all'a.a. 2006-07.
- Laboratorio di progettazione elettrica assistita (Laurea Specialistica in Ing. Elettrica, CFU=6), dall'a.a. 2003-04 all'a.a. 2009-10.
- Elettrotecnica (Laurea in Ing. Meccanica, CFU=6), sede di Latina dell'Università di Roma "La Sapienza", a.a. 2002-03, 2003-04.
- Elettrotecnica (Laurea in Ing. Aerospaziale, CFU=6), sede di Latina dell'Università di Roma "La Sapienza", a.a. 2002-03, 2003-04.
- Elettrotecnica (Laurea in Ing. per l'Ambiente e il Territorio, CFU=6) sede di Latina dell'Università di Roma "La Sapienza", a.a. 2000-01, 2001-02, 2002-03, 2003-04.
- Elettrotecnica (Diploma Universitario in Ing. Elettrica), a.a. 1999-2000.

Attività didattica in corsi di formazione presso Sapienza Università di Roma

- Docente del Master di Compatibilità Elettromagnetica, a.a. 2003-04, 2004-05.
- Docente del Corso di aggiornamento e formazione professionale del corpo del Genio Navale della Marina Militare Italiana.
- Docente del modulo "Procedure numeriche di calcolo della compatibilità elettromagnetica" nell'ambito del Corso di Perfezionamento di Compatibilità Elettromagnetica, negli a.a. 1998-99 e 1999-2000.

Attività didattica svolta all'estero

Docente nei seguenti corsi finanziati dall'ERASMUS ICP 1054/B/06 e rivolti ai laureandi e agli studenti dei Corsi di Dottorato:

settembre 1997	<i>Summer-Course: Introduction in Numerical Techniques for Electromagnetic Waves</i> , KHBO, Ostende (Belgio).
settembre 1998	<i>Erasmus Intensive Course on EMC</i> , Rome, Italy.
settembre 1999	<i>Short Intensive Course on EMC</i> , Institut Zuverlässigkeit und Mikrointegration – Universität Gesamthochschule Paderborn, Paderborn, Germany.
settembre 2000	<i>Erasmus Intensive Course on EMC</i> , Brugge, Belgium.
settembre 2001	<i>Short Intensive Course on EMC</i> , University of Hannover, Hannover, Germany.
settembre 2002	<i>Erasmus Intensive Course on EMC</i> , Sorrento, Italy.

Servizi prestati in Atenei Italiani,
Facoltà, Dipartimento

2014	Membro della Commissione Ricerca Scientifica di Ateneo dell'Università Sapienza di Roma.
2011- 2013	Membro della Giunta del Dipartimento di Ingegneria Astronautica, Elettrica e Fisica Tecnica dell'Università Sapienza di Roma
2006 – 2009	Membro eletto del Consiglio Accademico dell'Ateneo Federato della Scienza e della Tecnologia (AST) dell'Università Sapienza di Roma
2004 – 2008	Membro eletto della Giunta del Centro di Spesa della Facoltà di Ingegneria dell'Università Sapienza di Roma
a.a. 2000-2001	Membro della commissione degli Esami di Stato per l'abilitazione alla professione di Ingegnere della Facoltà di Ingegneria dell'Università Sapienza di Roma
2000 - 2001	Membro eletto della commissione per la programmazione dell'organico della Facoltà di Ingegneria dell'Università Sapienza di Roma

Partecipazioni a commissioni

2017	Membro della commissione per 1 posta RTDA per il settore concorsuale 09/E1 - Elettrotecnica, S.S.D. ING-IND/31 – Elettrotecnica, Università di Napoli Federico II.
2016	Membro della commissione della Procedura di selezione per professore universitario di ruolo di II fascia - L. 240/10, Decreto Rettorale 192 del 10/05/2016, Settore Concorsuale: 09/E1 Elettrotecnica, Politecnico di Torino
2013	Membro della commissione dell'esame finale del Dottorato di Ricerca "Information and Communication Technologies" della scuola Scuola Interpolitcnica di Dottorato (Politecnico di Torino, Politecnico di Milano, Politecnico di Bari)
2013	Membro della commissione dell'esame finale del Dottorato di Ricerca Ingegneria Industriale - XXV ciclo dell'Università di Cagliari
2010	Membro della commissione dell'esame finale del Dottorato di Ricerca in Ingegneria Industriale XXII ciclo dell'Università di Cagliari
2010	Membro della commissione dell'esame finale del Dottorato di Ricerca in Ingegneria Elettrica e dell'Informazione XXII ciclo dell'Università di L'Aquila
2006	Membro della Commissione di conferma professori associati - S.S.D. ING-IND/31, valutazione comparativa bandita il 9/4/2002 presso l'Università di L'Aquila, Facoltà di Ingegneria
2005	Membro della commissione della procedura di valutazione comparativa per un posto di Ricercatore S.S.D. ING-IND/31 presso l'Università di Pisa
2003	2003: Membro della commissione dell'esame finale del Dottorato di Ricerca in Ingegneria Elettrica XV ciclo dell'Università di Catania
2000	Membro della commissione della procedura di valutazione comparativa per un posto di Ricercatore S.S.D. ING-IND/31 presso l'Università di Cagliari

ISTRUZIONE E FORMAZIONE 1997 1994 1992	Dottorato di Ricerca in Ingegneria Elettrica, Università Sapienza di Roma Diplome d'Etudes Approfondies (DEA) in Ingegneria Elettrica presso l'Institut National Polytechnique de Grenoble, Laboratoire d'Electrotechnique de Grenoble (INPG-LEG), Grenoble (Francia) Laurea in Ingegneria Elettrica, Università Sapienza di Roma
CAPACITÀ E COMPETENZE PERSONALI <i>Acquisite nel corso della vita e della carriera ma non necessariamente riconosciute da certificati e diplomi ufficiali.</i> MADRELINGUA ALTRE LINGUE Capacità di lettura Capacità di scrittura Capacità di espressione orale	ITALIANO INGLESE FRANCESE eccellente buona eccellente buona eccellente buona
CAPACITÀ E COMPETENZE RELAZIONALI	Eccellente capacità di lavorare in gruppo ed interagire con altre persone, maturata in oltre venticinque anni di ricerca collaborando con diversi gruppi di ricerca e partner industriali in Italia e all'estero.
CAPACITÀ E COMPETENZE ORGANIZZATIVE	Responsabile scientifico e coordinatrice di diversi progetti di ricerca finanziati da Enti ed industrie (Italtel S.p.A, Trenitalia, RAI), di un progetto MURST Giovani Ricercatori, e coordinatrice di unità di un PRIN2004. Incarichi a servizio della comunità scientifica internazionale: • Presidente della IEEE Electromagnetic Compatibility Society per il biennio 2009-10 • Presidente-eletto della IEEE Electromagnetic Compatibility Society (EMCS) nel 2009 • Past-President della IEEE Electromagnetic Compatibility Society (EMCS) per il biennio 2012-13 • Membro dell'IEEE Technical Activity Board per il biennio 2010-2011, in rappresentanza della IEEE Electromagnetic Compatibility Society (EMCS) • Membro eletto del Board of Directors della IEEE Electromagnetic Compatibility Society per il trienni 2005-2007 e 2008-2010 • Membro del 2015, 2016, 2017 IEEE Electromagnetic Award Committee • Coordinatore dei 67 Chapter della IEEE Electromagnetic Compatibility Society dal 2006 al 2008. • Promotrice della istituzione di 9 IEEE EMCS chapter (Pittsburg, Australia, Hong Kong, Czech Republic, Galveston Bay/Houston, Colombia, Rock River Valley, Hyderabad, Argentina) • Associate Editor della rivista IEEE Transactions on Electromagnetic Compatibility nel biennio 1999-2000. • Revisore di articoli scientifici di importanti riviste internazionali (IEEE Transactions on Electromagnetic Compatibility, IEEE Transactions on Microwave Theory and Techniques, IEEE Transactions on Magnetics, IEEE Transactions on Components, Packaging and Manufacturing Technology, etc) • Membro del Technical Program Committee di innumerevoli congressi internazionali: - Workshops/Tutorials Co-Chair IEEE EMC+SIPI, 2018 IEEE Symposium on Electromagnetic Compatibility, Signal and Power Integrity, Long Beach (USA), July 30-August 3, 2018.

- "Oversea Member" dell'Organizing Committee del 2014 International Symposium on Electromagnetic Compatibility, Tokyo (EMC'14/Tokyo), May 2014
- Chair del Technical Committee on Computational Electromagnetics per il congresso internazionale 2013 Asia Pacific Electromagnetic Compatibility 2013 Week (AP-EMC 2013) in Melbourne, May, 2013
- Membro del Technical Program Committee del 2012 Asia Pacific Electromagnetic Compatibility 2012 Week (AP-EMC 2012) in Singapore, May, 2012
- Special Sessions, Workshop and Tutorial Coordinator di EMC EUROPE 2012, Rome, Italy, Sep., 2012
- Membro dell'International Advisory Committee e del Technical Program Committee del 2011 Asia-Pacific EMC Symposium, in Jeju (Korea), May 16-19, 2011
- Membro del Technical Program Committee del 2010 Asia Pacific Electromagnetic Compatibility 2010 Week (AP-EMC 2010) in Beijing, China, April 12-16, 2010.
- Membro dell'Organizing Committee del 2009 International Symposium on Electromagnetic Compatibility (EMC'09/Kyoto) in Kyoto, Japan on July 20-24, 2009
- Membro del Technical Committee di EUROEM 2008 Symposium on Electromagnetics, Lausanne, Switzerland, July 21-25, 2008.
- Membro del 2007 IEEE EMC Symposium Committee, Honolulu, Hawaii, July 8-13, 2007
- Membro del Technical Program Committee del CEFC'2006 - IEEE Conference on Electromagnetic Field Computation, Miami, USA, 2006
- Membro del Comitato Scientifico del 5th European Conference on Numerical Methods in Electromagnetism (NUMELEC'2006), Nov. 29, 30 & Dec. 1, 2006, Lille, France

• **Membro del comitato organizzatore** dei seguenti congressi internazionali:

- Int. Symp. on Electromagnetic Compatibility – EMC EUROPE 2012, Rome, Italy, Sept. 2012
- Workshop on Electromagnetic Compatibility of Wireless Systems, Rome, Italy, Sep. 2005
- Int. Symp. on Electromagnetic Compatibility – EMC EUROPE 2002, Sorrento, Italy, Sept. 2002
- Int. Symp. on Electromagnetic Compatibility – EMC'98 ROMA, Rome, Italy, Sept. 1998
- Int. Symp. on Electromagnetic Compatibility – EMC'96 ROMA, Rome, Italy, Sept. 1996
- Int. Symp. on Electromagnetic Compatibility – EMC'94 ROMA, Rome, Italy, Sept. 1994

• **Organizzatrice e Session Chair** dei seguenti Workshop e Tutorial:

- o Workshop WS03 - "EMC & EMF Safety Aspects of Wireless Power Transfer Technologies in Transportation Systems", 2018 IEEE EMC & APEMC Symp., Singapore, May 2018.
- o Invited Session SS4 – "Recent Progress in Modeling and Simulation for EMC", Asia Pacific EMC Week (AP-EMC 2010), Beijing, China, April 12-16, 2010
- o Workshop WS5 - "EMC Modelling", Int. Symp. on Electromagnetic Compatibility EMC EUROPE 2008, Hamburg, Germany, 8-12 Sept. 2008
- o Tutorial "Circuit and Numerical Modelling of Signal Lines of a High-Speed Digital Equipment for Signal Integrity and EMI Compliance", Zurich Symp. on Electromagnetic Compatibility, Munich, Germany, Sep., 2007
- o Tutorial C - "Software Tools for EMC Design", Int. Symp. on Electromagnetic Compatibility – EMC'98 ROMA, Rome, Italy, 14-18 Sept. 1998

Membro dell'Editorial Board di innumerevoli congressi internazionali

- CEFC - IEEE Conference on Electromagnetic Field Computation (1998, 2000, 2002, 2006, 2008, 2010, 2014)
- COMPUMAG - Conference on the Computation of Electromagnetic Fields, (2001, 2003, 2005, 2007, 2009, 2013, 2015, 2017)
- IEEE Int. Symposium on Electromagnetic Compatibility (2001, 2004, 2005, 2006, 2007, 2017, 2018)
- EMC EUROPE - Int. Symposium on Electromagnetic Compatibility (2002, 2004, 2012, 2013, 2014, 2015, 2016, 2017, 2018)
- EUROEM (2004, 2008)
- AP-EMC - Asia Pacific International Symposium and Exhibition on Electromagnetic Compatibility (2010, 2013, 2018)

Relatrice di diverse tesi di laurea nell'ambito della compatibilità elettromagnetica, dell'inquinamento elettromagnetico ambientale, dei metodi numerici per l'analisi di campi e circuiti

CAPACITÀ E COMPETENZE TECNICHE	Eccellenti capacità a svolgere attività di ricerca teorica e modellistica in ambito della compatibilità elettromagnetica, del calcolo numerico di campi elettromagnetici, e dell'impatto ambientale dei campi elettromagnetici. Eccellente conoscenza di svariati applicativi professionali CAD Eccellente capacità di navigare in Internet
PREMI E RICONOSCIMENTI	Nell'ambito della sua attività scientifica, F. Maradei ha vinto i seguenti <u>premi</u>: - Oral Presentation Best Paper Award all'<i>International Symposium on Electromagnetic Compatibility - EMC'94 ROMA</i>, Rome, Italy, September 13-15, 1994, con il lavoro "A Procedure for Numerical Solution of Field-Excited Nonuniform Transmission Lines", F. Maradei; - Poster Presentation Best Paper Award all'<i>International Symposium on Electromagnetic Compatibility – EMC EUROPE 2000</i>, Brugge, Belgium, September 11-15, 2000, con il lavoro "Lightning stroke to a metallic-composite aircraft: certification feasibility by simulation. Part II: Prediction of the induced electromagnetic effects", M. Aprà, M. D'Amore, M. Feliziani, F. Maradei, M. S. Sarto, A. Scarlatti, V. Volpi; - 2003 James Melcher Price Paper Award assegnato dall'<i>Electrostatic Process Committee</i> della <i>IEEE Industry Applications Society</i> al lavoro "Analysis of upset and failures due to ESD by the FDTD-INBCs method", F. Maradei, M. Raugi, pubblicato su <i>IEEE Trans. Industry Applications</i>, vol. 38, no. 4, Jul./Aug.2002, pp.1009-1017.
ULTERIORI INFORMAZIONI	Autore/coautore di oltre 150 pubblicazioni su riviste scientifiche internazionali, atti di congressi internazionali e libri (SCOPUS Citation Report: 719 citazioni; H-index = 15) Membro della IEEE e della IEEE Electromagnetic Compatibility Society
ALLEGATI	Elenco pubblicazioni

ALLEGATO

ELENCO DELLE PUBBLICAZIONI

Pubblicazioni su Rivista

- M. Feliziani, S. Cruciani, T. Campi, F. Maradei, "Artificial Material Single Layer to Model the Field Penetration Through Thin Shields in Finite-Elements Analysis", *IEEE Trans. Microwave Theory and Techniques*, vol. 66, pp. 56-63, January, 2018.
- T. Campi, S. Cruciani, V. De Santis, F. Maradei, M. Feliziani, "Numerical characterization of the magnetic field in electric vehicles equipped with a WPT system", *Wireless Power Transfer*, vol. 4, no. 2, pp. 78-87, Sep. 2017.
- T. Campi, S. Cruciani, V. De Santis, F. Palandrani, F. Maradei, M. Feliziani, "Induced effects in a pacemaker equipped with a power transfer charging system", *IEEE Trans. Magnetics*, vol. 53, no. 6, Jan. 2017.
- T. Campi, S. Cruciani, F. Maradei, M. Feliziani, "Near-field reduction in a wireless power transfer system using LCC compensation", *IEEE Trans. Electromag. Compat.*, vol. 59, no. 2, Feb. 2017, pp. 686-694.
- S. Caniggia, F. Maradei, "Comparative study of lossy transmission line simulation models for eye-diagram estimation", *IEEE Trans. Electromag. Compat.*, vol. 58, no. 4, Mar. 2016, pp. 1176-1183.
- M. Feliziani, S. Cruciani, F. Maradei, "Circuit-oriented FEM Modeling of Finite Extension Graphene Sheet by Impedance Network Boundary Conditions (INBCs)", *IEEE Terahertz Science and Technology*, vol. 4, Issue 6, Oct. 2014, pp. 734-740.
- S. Cruciani, V. De Santis, F. Maradei, M. Feliziani, "Circuit-Oriented Solution of Drude Dispersion Relations by Fd2td Method", *IEEE Trans. Magnetics*, vol. 50, Issue 2, Feb 2014.
- M. Feliziani, S. Cruciani, V. De Santis, and F. Maradei, "Fd2td analysis of electromagnetic field propagation in multipole Debye media with and without convolution," *Progress In Electromagnetics Research B*, Vol. 42, 181-205, 2012.
- F. Maradei, S. Caniggia, N. Inverardi, M. Rotigni, "Full-wave Analysis of Power Distribution Networks in Printed Circuit Boards", *IEICE Transactions on Communications*, April 2010.
- V. De Santis, M. Feliziani, F. Maradei, "Safety Assessment of UWB Radio Systems for Body Area Network by the FD2TD Method", *IEEE Trans. Magnetics*, May 2010.
- Haixin Ke, T. H. Hubing, F. Maradei, "Using the LU Recombination Method to Extend the Application of Circuit-Oriented Finite Element Methods to Arbitrarily Low Frequencies" *IEEE Trans. Microwave Theory and Techniques*, May 2010.
- F. Caricchi, F. Maradei, G. De Donato and F. Giulii Capponi, "Axial-Flux Permanent-Magnet Generator for Induction Heating Gen Sets", *IEEE Trans. Industrial Electronics*, vol. 57, no. 1, Jan. 2010, pp. 128-137.
- F. Maradei, Haixin Ke, T. H. Hubing, "Full-Wave Model of Frequency-Dispersive Media With Debye Dispersion Relation by Circuit-Oriented FEM" *IEEE Trans. Electromag. Compat.*, vol. 51, no. 2, May 2009, pp. 312-319.
- V. De Santis, M. Feliziani, F. Maradei, C. Buccella, "Finite-Element Analysis of Temperature Increase in Vascularized Biological Tissues Exposed to RF Sources", *IEEE Trans. Magnetics*, vol. 45, no. 3, Mar. 2009, pp. 1682-1685.
- V. De Santis, M. Feliziani, F. Maradei, "Hybrid Finite Element/Finite Difference (FE/FD) Model to Analyze Thermal Transients in Biological Vascularized Tissues", *COMPEL*, Nov. 2008.
- S. Caniggia, F. Maradei, "Numerical Prediction and Measurement of ESD Radiated Fields by Free-Space Field Sensors", *IEEE Trans. Electromag. Compat.*, vol. 49, no. 3, Aug. 2007, pp. 494-503.
- S. Caniggia, A. Maffucci, F. Maradei, F. Villone, W. Zamboni, "3D Numerical Modeling and Circuit Extraction Techniques for the Analysis of Unshielded Twisted Pairs", *IEEE Trans. Magnetics*, Apr. 2007, pp. 1357-1360.
- S. Caniggia, F. Maradei, "Circuit and numerical modeling of electrostatic discharge generators", *IEEE Trans. Industry Applications*, vol. 42, no. 6, Nov./Dic. 2006, pp. 1350-1357.
- R. Araneo, S. Celozzi, F. Maradei, G. Potini, "Fault detection in conductive pipelines by time domain reflectometry", *WSEAS Transactions on Systems*, vol. 4, no. 12, Dec. 2005, pp. 2317-2321.
- C. Buccella, M. Feliziani, F. Maradei, G. Manzi, "Magnetic field computation in physically large domain with thin metallic shields", *IEEE Trans. Magnetics*, May. 2005, pp. 1708-1711.
- S. Caniggia, F. Maradei, "SPICE-Like models for the analysis of conducted and radiated immunity of shielded cables", *IEEE Trans. Electromag. Compat.*, vol. 46, no. 4, Nov. 2004, pp. 606-616.
- D. Bellan, A. Gaggelli, F. Maradei, A. Mariscotti, S. Pignari, "Time-domain measurement and spectral analysis of non-stationary low-frequency magnetic field emissions on board of rolling stock", *IEEE Trans. Electromag. Compat.*, vol. 46, no. 1, Feb. 2004, pp. 12-23.
- F. Delfino, F. Maradei, R. Procopio, M. Rossi, "Analysis of several frequency and time domain approaches for the evaluation of

the response of HF field excited finite lines", *IEEE Trans. on Magnetism*, vol. 39, no. 3, May. 2003.

- M. Feliziani, F. Maradei, "Edge-elements modeling of the transmission line coupling inside a field domain by impedance network boundary conditions (INBCs)", *IEEE Trans. on Magnetism*, vol. 39, no. 3, May. 2003.
- C. Caruso, M. Feliziani, F. Maradei, "ELF magnetic field produced by the ac electrification in a railway carriage", in *Biological Effects of Electromagnetic Fields*, P. Stavroulakis Ed., Springer, Berlin, 2003, pp. 378-425.
- M. Feliziani, F. Maradei, "Time domain prediction of the radiated susceptibility in a shielded cable inside a penetrable shielded box", *International Journal of Numerical Modeling: Electronic Network, Devices and Fields*, vol. 15, pp. 549-561, Sept. 2002.
- F. Maradei, M. Raugi, "Analysis of upset and failures due to ESD by the FDTD-INBCs method", *IEEE Trans. Industry Applications*, vol. 38, no. 4, Jul./Aug. 2002, pp. 1009-1017, *James Melcher Price Paper Award*.
- M. Feliziani, F. Maradei, "Circuit-oriented FEM: solution of circuit-field coupled problems by circuit equations", *IEEE Trans. on Magnetism*, vol. 38, no. 2, Mar. 2002, pp. 965-968.
- B. Cannas, A. Fanni, F. Maradei, "Neural characterization of wire bundles multiconductor transmission lines", *IEEE Trans. on Magnetism*, vol. 38, no. 2, Mar. 2002, pp. 785-788.
- M. Feliziani, F. Maradei, "Full wave analysis of shielded cable configurations by the FDTD method", *IEEE Trans. on Magnetism*, vol. 38, no. 2, Mar. 2002, pp. 761-764.
- M. Feliziani, F. Maradei, "A hybrid numerical technique to predict the electromagnetic field in penetrable conductive boxes", *Electromagnetics*, vol. 22, Jul. 2002, pp. 405-417.
- F. Maradei, "A frequency-dependent WETD formulation for dispersive materials", *IEEE Trans. on Magnetism*, vol. 37, no. 5, Sep. 2001, pp. 3303-3306.
- M. Feliziani, F. Maradei, "FEM solution of time-harmonic electromagnetic fields by an equivalent electrical network", *IEEE Trans. Magnetism*, vol. 36, no. 4, July 2000, pp. 938-941.
- M. Feliziani, F. Maradei, "Finite-difference time-domain modeling of thin shields", *IEEE Trans. Magnetism*, vol. 36, no. 4, July 2000, pp. 848-851.
- M. Feliziani, F. Maradei, "Lumped circuits coupled with electromagnetic Whitney element models", *International Journal of Numerical Modeling: Electronic Networks, Devices and Fields*, John Wiley and Sons, Ltd., 2000.
- M. Feliziani, F. Maradei, G. L. Tribellini, "Analysis of penetrable conductive shields by the finite-difference time-domain method with impedance network boundary conditions (INBCs)", *IEEE Trans. Electromag. Compatibility*, vol. 41, no. 4, Nov. 1999, pp. 307-319.
- M. Feliziani, F. Maradei, "Time-domain FEM analysis of quasi-static magnetic fields around nonperfectly conductive shields", *IEEE Trans. Magnetism*, vol. 35, no. 3, May 1999, pp. 1187-1190.
- M. Feliziani, F. Maradei, "Modeling of electromagnetic fields and electrical circuits with lumped and distributed elements by the WETD method", *IEEE Trans. Magnetism*, vol. 35, no. 3, May 1999, pp. 1666-1669.
- M. Feliziani, F. Maradei, E. Santini, C. Santucci, "Prediction model of the discharge path in electrical devices by an iterative FEM procedure", *IEEE Trans. Magnetism*, vol. 34, no. 5, Sept. 1998, pp. 2513-2516.
- M. Feliziani, F. Maradei, "Full wave FEM analysis of electrical circuits using circuit elements", *Software for Electrical Engineering - Analysis and Design*, Editors: A. Konrad, C. A. Brebbia, WIT Press 1999, Southampton, UK.
- M. Feliziani, F. Maradei, "Fast computation of quasi-static magnetic fields around nonperfectly conductive shield", *IEEE Trans. Magnetism*, vol. 34, no. 5, Sept. 1998, pp. 2795-2798.
- M. Feliziani, F. Maradei, "Mixed finite difference/Whitney element time domain (FDWE-TD) method", *IEEE Trans. Magnetism*, vol. 34, no. 5, Sept. 1998, pp. 3222-3227.
- M. Feliziani, F. Maradei, "Capacitance matrix calculation of a wire conductor line: a new FEM approach", *IEEE Trans. on Electromag. Compatibility*, vol. 40, no. 3, Aug 1998, pp. 262-270.
- M. Feliziani, F. Maradei, "Edge element analysis of complex configurations in presence of thin shields", *IEEE Trans. Magnetism*, vol. 33, no. 2, March 1997, pp. 1548-1551.
- M. Feliziani, F. Maradei, "An explicit-implicit solution scheme to analyze fast transients by finite elements", *IEEE Trans. Magnetism*, vol. 33, no. 2, March 1997, pp. 1452-1455.
- M. Feliziani, F. Maradei, "Field-to wire coupling using the finite element-time domain method", *IEEE Trans. Magnetism*, vol. 31, no. 3, May 1995, pp. 1586-1589.

- M. Feliziani, F. Maradei, "Hybrid finite element solution of time dependent Maxwell's curl equations", *IEEE Trans. Magnetics*, vol. 31, no. 3, May 1995, pp.1330-1335.
- M. Feliziani, F. Maradei, "On the point-matched time domain numerical techniques", *COMPEL*, vol. 13, Supplement A, May 1994, pp. 265-270.
- M. Feliziani, F. Maradei, "Point matched finite element-time domain method using vector elements", *IEEE Trans. Magnetics*, vol. 30, no. 5, Sep. 1994, pp. 3184-3187.

Lavori Presentati a Congressi Internazionali e Pubblicazioni su Atti di Congressi Internazionali

- T. Campi, S. Cruciani, M. Feliziani, F. Maradei, "Magnetic Field generated by a 22 kW-85kHz wireless power transfer system for an EV", 2017, AEIT International Annual Conference, Cagliari, 2017.
- T. Campi, S. Cruciani, M. Feliziani, F. Maradei, "High efficiency and lightweight wireless charging system for drone batteries", 2017, AEIT International Annual Conference, Cagliari, 2017.
- T. Campi, S. Cruciani, V. De Santis, F. Maradei, M. Feliziani, "Magnetic field behavior in a carbon-fiber electrical vehicle charged by a wireless power transfer system", *2017 International Symposium on Electromagnetic Compatibility - EMC EUROPE 2017*, Angers, France, September 2017.
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