



UNIVERSITÀ DEGLI STUDI DELL'AQUILA
Prof. Mauro Feliziani
Curriculum scientifico

(Aggiornato il 2020/11/18)

ACADEMIC POSITIONS

1994 ? present,

Full Professor, , Department of Industrial and Information Engineering and Economics, University of L'Aquila, L'Aquila, Italy

1992 ? 1994 ,Associate Professor, Department of Electrical and Information Engineering, Sapienza University of Rome, Rome, Italy

1987 ? 1992,Assistant Professor, Department of Electrical Engineering, Sapienza University of Rome, Rome, Italy

EDUCATION AND TRAINING

1983Laurea Degree (5 year course) in Electrical Engineering, Sapienza University of Rome

ACADEMIC POSTS

- Head, Department of Electrical and Information Engineering, University of L'Aquila, 2001-2006.

- Head, School of Electronic Engineering, University of L'Aquila, 1996-2001.

- Director, Campus Project, School of Electronic Engineering, University of L'Aquila, 1998-2001.

- Director, CampusOne Project , University of L'Aquila, 2001-2004.

- Member, Academic Senate, University of L'Aquila, 2004-2006.

- Vice-President, Board of Directors, University of L'Aquila, 2003-2005.

- Member, Steering Committee, Center of Excellence DEWS ?Design methodology of Embedded controllers, Wireless interconnect and Systems-on-chip?, University of L'Aquila, 2001-2011.

- Member, Scientific Committee, Foundation of University of L'Aquila, 2007-2011.

- Member, University Assessment Commission, University of L'Aquila, 2012-2015.

- Spin-OffCo-Founder- Board of Directors Member, University Spin-Off WEST (Wireless Embedded System Technology) Aquila

RESEARCH EXPERTISE

- Electromagnetic compatibility (EMC): Shielding /Transmission Lines/ Coupling;
- Electromagnetic field numerical computation: FEM / FDTD;
- Bioelectromagnetics: ElectroMagnetic Field (EMF) Safety / Numerical dosimetry/AIMDs;
- Wireless Power Transfer
- Communications: UWB (Ultra Wide Band) Radio Communications/ RFID (Radio Frequency Identification) /Body Area Network (BAN) / Power Line Communications (PLC);
- Micro-nanoelectronics: Nanotechnology Applications/ RF MEMS e FBAR;
- Electrostatics: Electrostatic Precipitators.

TEACHING

- Electromagnetic Compatibility, School of Electrical Engineering, Sapienza University of Rome, 1991 - 1997.
- Electrotechnics, School of Aeronautic Engineering, Sapienza University of Rome, 1992 -1994.
- Electrotechnics, School of Chemical Engineering, University of L'Aquila, 1992 -1993.
- Electrotechnics, School of Electronic, Communication and Information Engineering, University of L'Aquila, 1994-present.
- Electrotechnics II, School of Electronic, Communication and Information Engineering, University of L'Aquila, 2008-2010.
- Electrotechnics, School of Mechanics Engineering, Sapienza University of Rome, 1998-2000.
- Electromagnetic Field Safety, School of Electronic, Communication and Information Engineering, University of L'Aquila, 2008-present.
- Electromagnetic Compatibility and Electromagnetic Field Safety, Master School, Sapienza University of Rome, 2003-2004.
- EMC in Wireless Communication, Master School, University of L'Aquila, 2006.

RESEARCH

International Steering Committee Chairman

- 2012-2015,EMCEUROPEOrganization.

International Steering Committee Secretariat

- EMC'94 ROMA Int. Symp. on Electromagnetic Compatibility, 1994, Rome, Italy.
- EMC'96 ROMA Int. Symp. on Electromagnetic Compatibility, 1996, Rome, Italy.
- EMC'98 ROMA Int. Symp. on Electromagnetic Compatibility, 1998, Rome, Italy.
- EMC EUROPE2000, Bruges, Belgium.
- EMC EUROPE2002, Sorrento, Italy.
- EMC EUROPE2004, Eindhoven, the Netherlands.
- EMC EUROPEWorkshop 2005, Rome, Italy.
- EMC EUROPE2006, Barcellona, Spain.
- EMC EUROPEWorkshop 2007, Paris, France.
- EMC EUROPE2008, Hamburg, Germany.
- EMC EUROPEWorkshop 2009, Athens, Greece.
- EMC EUROPE2010, Wroclaw, Poland.

Technical Program Committee (TPC) Chair

- IEEE CEFC 2002, Perugia Italy.
- EMC Europe 2012, Rome, Italy.

Guest Editor

- Special Issue of the IEEE Transactions on Magnetics, May 2003
- Special Issue of COMPEL, vol. 27, no. 6, 2008.
- Special Issue of Energies, Nov. 2019
- Special Issue of Energies, Nov. 2020

Associate Editor

- IEEE Transactions on Electromagnetic Compatibility, 1995 ? 2001
- Energies, 2020-present.

Program Committee Member

- IEEE Conference on Electromagnetic Field Computation (CEFC), 1998, Tucson, USA.
- Int. Symp. on EMC, Sendai, Japan, 2004.
- Int. Symp. on EMC, Tokyo, Japan, 2014.

Conference Organizer

- EMC'94 ROMA Int. Symp. on Electromagnetic Compatibility, Sept. 13-16, 1994, Rome, Italy.
- EMC'96 ROMA Int. Symp. on Electromagnetic Compatibility, Sept. 17-20, 1996, Rome, Italy.
- EMC'98 ROMA Int. Symp. on Electromagnetic Compatibility, Sept. 14-18, 1998, Rome, Italy.
- XV Riunione annuale dei Ricercatori di Elettrotecnica, L'Aquila, Italy, 24-26 June 1999.
- Giornate di studio AEI "Didattica e formazione nella compatibilità elettromagnetica", L'Aquila, Italy, 21-22 June 1996.
- Giornate di studio AEI "Prove di prequalificazione e di diagnostica nella compatibilità elettromagnetica", L'Aquila, Italy, 3-4 July 1997.
- Giornate di studio AEI "Impatto ambientale dei campi elettromagnetici", L'Aquila, Italy, 2-3 July 1998.
- Giornate di studio AEI "Compatibilità elettromagnetica nei sistemi di trasporto", L'Aquila, Italy, 23-24 June 1999.
- Giornata di studio AEI "Coesistenza e compatibilità elettromagnetica delle tecnologie wireless emergenti,? L'Aquila, Italy, 29 May 2008.
- EMC Europe Int. Symposium 2002, Sorrento, Italy.
- EMC Europe Int. Workshop 2005, Rome, Italy.
- EMC Europe Int. Symposium 2012, Rome, Italy.
- EMC Europe Int. Symposium 2020, Virtual conference.

Honours and awards

- 1995 Best Paper Award - IEEE Transactions on Industry Applications - Electrostatics Process Committee - "Calculation of Ionized Fields in DC Electrostatic Precipitators in the Presence of Dust and Electric Wind".
- 2000, Best Paper Award ? EMC Europe - International Symposium on EMC, Brugge, Belgium. ?Lightning stroke to a metallic-composite aircraft: certification feasibility by simulation. Part II: Prediction of the induced electromagnetic effects?

- 2006, Second best Paper ? Bioelectromagnetic Society Annual meeting, Cancun, Mexico. ?Investigation of temperature increase in human eyes due to different RF sources?
- 2007, Best Student Symposium Paper Award ? IEEE International Symposium on Electromagnetic Compatibility, Honolulu, USA. ?Numerical Prediction of SAR and Thermal Elevation in a 0.25-mm 3-D Model of the Human Eye?
- 2014, Best Paper Prize ? IEEE Conference on Electromagnetic Field Computation (CEFC), Annecy, France, 2014. ?Wireless Power Transfer System in Medical Implants using Planar Spiral Coils?, by Campi et al.
- 2019 Best Paper Award at the IEEE WPW 2019, Wireless Power Week, London, U. K., 2019; for the paper ?Wireless Charging in Electric Vehicles: EMI/EMC Risk Mitigation in Pacemakers by Active Coils?;
- 2019 Kanda Award for Near-Field Reduction in a Wireless Power Transfer System Using LCC Compensation by T Campi ; S. Cruciani ; F. Maradei ; M. Feliziani , for the highest citations among all the IEEE Transactions on Electromagnetic Compatibility papers published in the last 5 years (2015-2019).
- 2020 IEEE EMC Society Technical Achievement Award.

Conference General Chairman

- EMC Europe 2002, Sorrento, Italy.
- EMC Europe Workshop 2005, Rome, Italy.
- EMC Europe Symposium 2020, Virtual conference.
- XV Riunione annuale dei Ricercatori di Elettrotecnica, L'Aquila, Italy, 24-26 June 1999.
- AEI Workshop "Didattica e formazione nella compatibilità elettromagnetica", L'Aquila, Italy, 21-22 June 1996.
- AEI Workshop "Prove di prequalificazione e di diagnostica nella compatibilità elettromagnetica", L'Aquila, Italy, 3-4 July 1997.
- AEI Workshop "Impatto ambientale dei campi elettromagnetici", L'Aquila, Italy, 2-3 July 1998.
- AEI Workshop "Compatibilità elettromagnetica nei sistemi di trasporto", L'Aquila, Italy, 23-24 June 1999.
- Third Edition of the Italian Workshop on Finite Element Method as Applied to Electrical and Information Engineering, Rome, Italy, Dec. 14, 2007.
- AEI Workshop "Coesistenza e compatibilità elettromagnetica delle tecnologie wireless emergenti", L'Aquila, EMC Europe 2002, Sorrento, Italy.
- EMC Europe Workshop 2005, Rome, Italy.
- XV Riunione annuale dei Ricercatori di Elettrotecnica, L'Aquila, Italy, 24-26 June 1999.
- AEI Workshop "Didattica e formazione nella compatibilità elettromagnetica", L'Aquila, Italy, 21-22 June 1996.
- AEI Workshop "Prove di prequalificazione e di diagnostica nella compatibilità elettromagnetica", L'Aquila, Italy, 3-4 July
- AEI Workshop "Impatto ambientale dei campi elettromagnetici", L'Aquila, Italy, 2-3 July 1998.

- AEI Workshop "Compatibilità elettromagnetica nei sistemi di trasporto", L'Aquila, Italy, 23-24 June 1999.
- Third Edition of the Italian Workshop on Finite Element Method as Applied to Electrical and Information Engineering, Rome, Italy, Dec. 14, 2007.
- AEI Workshop "Coesistenza e compatibilità elettromagnetica delle tecnologie wireless emergenti," L'Aquila, Italy 29 May 2008.

Conference Session Chairman

- Compumag 1993, Miami, USA.
- EMC'94 ROMA, Int. Symp. on Electromagnetic Compatibility, Rome, Italy.
- Compumag 1995, Berlin, Germany.
- EMC'96 ROMA, Int. Symp. on Electromagnetic Compatibility, Rome, Italy.
- Compumag 1997, Rio de Janeiro, Brasil.
- IEEE CEFC 1998, Tucson, USA.
- 1998 IEEE Int. Symp. on EMC, Denver, USA.
- EMC'98 ROMA, Int. Symp. on Electromagnetic Compatibility, Rome, Italy.
- URSI General Assembly, Toronto, Canada, 1999.
- Electrosoft, Seville, Spain, 1999.
- Compumag 1999, Sapporo, Japan.
- EMC EUROPE 2000, Bruges, Belgium.
- Compumag 2001, Evian, France.
- IEEE CEFC 2002, Perugia Italy.
- EMC EUROPE 2002, Sorrento, Italy
- EMC EUROPE 2004, Eindhoven, the Netherlands.
- EMC EUROPE Workshop 2005, Rome, Italy.
- IEEE CEFC 2006, Miami, Florida, USA.
- EMC EUROPE 2006, Barcellona, Spain
- EMC EUROPE Workshop 2007, Paris, France.
- EMC EUROPE 2008, Hamburg, Germany.

- EMC EUROPE Workshop 2009, Athens, Greece.
- EMC EUROPE 2010, Wroclaw, Poland.
- Compumag 2011, Sydney, Australia.
- EMC EUROPE 2011, York, UK.
- EMC EUROPE 2012, Rome, Italy.
- Compumag 2013, Budapest, Hungary.
- EMC EUROPE 2013, Brugge, Belgium.
- EMC Tokyo 2014, Tokyo, Japan.
- EMC EUROPE 2014, Gothenborg, Sweden.
- IEEE EMC 2015, Dresden, Germany.
- EMC EUROPE 2016, Wroclaw, Poland.
- EMC EUROPE 2017, Angers, France.
- EMC EUROPE 2018, Amsterdam, NL.
- EMC EUROPE 2019, Barcelona, Spain.-

Memberships

-IEEE

Reviewer

- IEEE Transactions on Electromagnetic Compatibility
- IEEE Transactions on Microwave Theory and Techniques
- IEEE Transactions on Industry Application
- IEEE Transactions on Magnetics
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Power Electronics
- IEEE Transactions on Power Delivery
- IEEE Transactions on Biomedical Circuits and Systems

-IEEE Access

-IEE Proceedings

-PIERS

-Compel

-Energies (MDPI)

-Electronics (MDPI)

-Sensors (MDPI)

Research Project Coordination

-Progetto ENEA-CNR- 5% - Salvaguardia dell'uomo e dell'ambiente dalle emissioni elettromagnetiche, 270 Milioni di lire, 2001-2003.

Progetto PRIN 2001- Diagnostica di guasti del sistema di cablaggio di un aeromobile?, insieme alle Università di Roma La Sapienza e l'Università Politecnica delle Marche, Ancona, 2001-2002.

- Tecniche e tecnologie per la sorveglianza?, per lo sviluppo di un dimostratore per un Sistema ATC di Sorveglianza basato sulle componenti SSR di Modo S ed ADS-B, committente Marconi Selenia Communications, 2003-2006, 650000Eur.

- Caratterizzazione e modello del canale Ultra Wide Band?, committente Thales Communications, 2004-2005, 130000Eur.

- Laboratorio di sviluppo di sistemi RFID per la ricerca di superstiti sepolti sotto detriti causati da disastri Fondazione CARISPAQ - 2010.

- Progetto Thales Art.10, Reti di sensori e architetture distribuite di controllo e comunicazione wireless: un progetto di prevalente ricerca industriale per il riorientamento e la riqualifica professionale della struttura di ricerca di Thales Italia SpA in Chieti?/ committente Thales, 165000 EUR, 2012-2015.

- Giubbotto per ricarica di dispositivi indossabili mediante tecnologia Wireless Power Transfer, Committente Siralab, 2018.

- Progetto di interesse nazionale ? PRIN 2017, Ministero dell'Istruzione, Ministero dell'Università e della Ricerca (MIUR), Titolo del progetto ?WPT4WID: Wireless Power Transfer for Wearable and Implantable Devices?, Progetto no. 2017YJE9XK,.

- Giubbotto per ricarica di dispositivi indossabili mediante tecnologia Wireless Power Transfer, Committente Siralab, 2020.

Patents

Campi, T & Feliziani, M. Carrello di atterraggio per aereomobili (droni). IT patent, priority number 102018000001311, 2018.

PUBLICATIONS

Journal Papers

[1]S. Cristina, M. D'Amore, M. Feliziani, "EMP Coupling to Power Lines", invited paper, Electromagnetics, Vol. 8, No. 2-4, pp. 277-292, 1988.

- [2]S. Cristina, M. D'Amore, M. Feliziani, "Electromagnetic Interference from Digital Signal Transmission on Power Line Carrier Channels", IEEE Trans. Power Delivery, Vol. 4, No. 2, pp. 898-905, April 1989.
- [3]S. Cristina, M. Feliziani, "A Finite Element Technique for Multiconductor Cable Parameters Calculation", IEEE Trans. Magnetics, Vol. 25, No. 4, pp. 2986-2988, July 1989.
- [4]
S. Cristina, M. Feliziani, "Numerical Analysis of Electric Field Generated by Imperfectly Insulated Buried Pipeline", IEE Proceedings, Vol. 136, Pt. A, No.3, pp. 121-126, May 1989.
- [5]M. Feliziani, "A FEM Approach to Shielding Effectiveness in Braided Shield Cables", IEEE Trans. Magnetics, Vol.26, No.2, pp. 929-932, March 1990.
- [6]
S. Cristina, G. Dinelli, M. Feliziani, "Numerical Computation of Corona Space Charge and V-I Characteristic in DC Electrostatic Precipitators", IEEE Trans. Industry Applications, Vol.27, No.1, pp. 147-153, Jan. 1991.
- [7]S.Celozzi, M.Feliziani, "FEM Computation of Induced Effects in Multiconductor Lines", IEEE Trans. Magnetics, Vol. 27, No.5, pp. 3927-3930, September 1991.
- [8]
S.Celozzi, M.Feliziani, "Analysis of Fast Transient Electromagnetic Fields: a Frequency Dependent 2-D Procedure", IEEE Trans. Magnetics, Vol. 28, No.2, pp. 1146-49, March 1992.
- [9]M.Feliziani, "Numerical Solutions of Low-Frequency Scattering Problems", IEEE Trans. Magnetics, Vol. 28, No.2, pp. 1224-27, March 1992.
- [10]
M.Feliziani, "Characteristic Impedance Boundary Conditions for the Solution of Open Boundary Problems", IEEE Trans. Magnetics, Vol. 29, No. 2, pp. 1816-1819, March 1993.
- [11]S.Celozzi, M.Feliziani, "Time Domain Finite Element Simulation of Conductive Regions", invited paper, IEEE Trans. Magnetics, Vol. 29, No. 2, pp. 1705-1710, March 1993.
- [12]
S. Subramaniam, M. Feliziani, Ratnajeevan H. Hoole, "Open Boundary Eddy-Current Problems Using Edge Elements", IEEE Trans. Magnetics, Vol. 29, No. 2, pp. 1499-1503, March 1993.
- [13]M. Feliziani, F. Maradei, "Point Matched Finite Element-Time Domain Method Using Vector Elements", IEEE Trans. Magnetics, Vol. 30, No.5, pp. 3184-3187, September 1994.
- [14]
S.Celozzi, M.Feliziani, "Transient Scattering Problems Solution by Surface Equivalent Sources", IEEE Trans. Magnetics, Vol. 30, No.5, pp. 3148-3151, September 1994.
- [15]M. Feliziani, F. Maradei, "On the Point-Matched Time Domain Numerical Techniques", COMPEL, vol. 13, Supplement A, May 1994.
- [16]
M. Feliziani and F. Maradei, "Hybrid finite element solution of time dependent Maxwell's curl equations", Invited Paper, IEEE Trans. Magnetics, vol. 31, no. 3, pp. 1330-1335, May 1995.
- [17]
M. Feliziani and F. Maradei, "Field-to-wire coupling using the finite element-time domain (FE-TD) method", IEEE Trans. Magnetics, vol. 31, no. 3, pp. 1586-1589, May 1995.
- [18]
S. Celozzi and M. Feliziani, "Time-domain solution of lossless field-excited transmission lines equations", IEEE Trans. Electromag. Compat., vol. 37, no.3, pp. 421-432, Aug. 1995.
- [19]S. Cristina and M. Feliziani, "Calculation of ionized fields in dc electrostatic precipitators in the presence of dust and electric wind", Award for the 1995 Best Transaction Paper - Electrostatic Committee IAS, IEEE Trans. Industry Applications, Vol. 31, no. 6, Nov./Dec. 1995.

- [20]M. Feliziani and F. Maradei, "Edge element analysis of complex configurations in presence of thin shields", IEEE Trans. Magnetics, vol. 33, no.2, pp. 1548-51, March 1997.
- [21]
M. Feliziani and F. Maradei, "An explicit-implicit solution scheme to analyze fast transients by finite elements", IEEE Trans. Magnetics, vol. 33, no.2, pp. 1452-55, March 1997.
- [22]
M. Feliziani, F. Maradei, "Mixed Finite Difference/Whitney Element Time Domain (FD/WE-TD) Method", (Invited Paper), IEEE Trans. Magnetics, vol.34, no. 5, pp. 3222-3227, Sep. 1998.
- [23]M. Feliziani and F. Maradei, "Fast computation of quasi-static magnetic fields around nonperfectly conductive shields", IEEE Trans. Magnetics, vol.34, no. 5, pp.2795-2798, Sep. 1998.
- [24]M. Feliziani, F. Maradei, E. Santini and C. Santucci, "Prediction model of the discharge path in electrical devices by iterative FEM procedure", IEEE Trans. Magnetics, vol.34, no. 5, pp. 2513-2516, Sep. 1998.
- [25]
M. Feliziani, F. Maradei, "Capacitance matrix calculation of a wire conductor line: a new FEM approach", IEEE Trans. Electromag. Compat., vol. 41, no. 3, pp. 262-270, May 1998.
- [26]M. Feliziani, F. Maradei, "Modeling of electromagnetic fields and electrical circuits with lumped and distributed elements by the WETD method", IEEE Trans. Magnetics, vol. 42, no. 3, May 1999.
- [27]
M. Feliziani, F. Maradei, "Time-domain FEM analysis of quasi-static magnetic fields around nonperfectly conductive shields ", IEEE Trans. Magnetics, vol. 42, no. 3, May 1999.
- [28]M. Feliziani, F. Maradei, "Full wave FEM analysis of electrical circuits using circuit elements", IN Software for Electrical Engineering ? Analysis and Design, Editors: A. Konrad, C. A. Brebbia, WIT Press 1999, Southampton, UK.
- [29]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. Compat., vol. 42, no. 6, Nov. 1999.
- [30]M. Feliziani, F. Maradei, "Finite-difference time-domain modeling of thin shields", IEEE Trans. Magnetics, vol. 36, no. 4, pp.848-851, July 2000.
- [31]
M. Feliziani, F. Maradei, "FEM solution of time-harmonic electromagnetic fields by an equivalent electrical network ", IEEE Trans. Magnetics, vol. 36, no. 4, pp.938-941, July 2000.
- [32]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.
- [33]
M. Feliziani, F. Maradei, "A hybrid numerical technique to predict the electromagnetic field in penetrable conductive boxes", Electromagnetics, vol. 22, pp.405-417, Jul. 2002.
- [34]
M. Feliziani, F. Maradei, "Full wave analysis of shielded cable configurations by the FDTD method", IEEE Trans. Magnetics, vol. 38, no. 2, pp. 761-764, Mar. 2002.
- [35]
M. Feliziani, F. Maradei, "Circuit-oriented FEM: solution of circuit-field coupled problems by circuit equations", IEEE Trans. Magnetics, vol. 38, no. 2, pp. 965-968, Mar. 2002.
- [36]M. Feliziani, F. Maradei, "Time domain prediction of the radiated susceptibility in a shielded cable inside a penetrable shielded box", Int. Journal Numerical Modeling: Electronic Network, Devices and Fields, vol. 15, pp. 549-561, Sept. 2002.

- [37]M. Feliziani, F. Maradei, "Edge-elements modeling of the transmission line coupling inside a field domain by impedance network boundary conditions (INBCs)", *IEEE Trans. Magnetics*, vol. 39, no. 3, pp. 1207-1210, May 2003.
- [38]C. Buccella, M. Feliziani, "A hybrid model to compute the effects of a direct lightning stroke on three-dimensional structures", *IEEE Trans. Magnetics*, vol. 39, no. 3, pp. 1586-1589, May 2003.
- [39]C. Buccella, M. Feliziani, G. Manzi, "Detection and localization of defects in shielded cables by time-domain measurements with UWB pulse injection and clean algorithm postprocessing", *IEEE Trans. Electromag. Compat.*, vol. 46, no. 4, pp. 597-605, Nov. 2004.
- [40]C. Buccella, M. Feliziani, G. Manzi, "Detection and localization of defects in shielded cables by time-domain measurements with UWB pulse injection and clean algorithm postprocessing", *IASME Trans.*, vol. 1, pp. 318-323, 2004.
- [41]C. Buccella, M. Feliziani, G. Manzi, "Wavelet denoising approach to extract accurate FDTD solution with coarse discretization in transmission lines", *IEEE Trans. Magnetics*, vol. 41, no.5, pp. 1732-1735, May. 2005.
- [42]C. Buccella, M. Feliziani, F. Maradei, G. Manzi, "Magnetic field computation in physically large domain with thin metallic shields", *IEEE Trans. Magnetics*, vol. 41, no.5, pp. 1708-1711, May. 2005.
- [43]C. Buccella, M. Feliziani, G. Manzi, "Three-Dimensional FEM Approach to Model Twisted Wire Pair Cables", *IEEE Trans. Magnetics*, vol. 43, no. 4, pp. 1373-1376, Apr. 2007.
- [44]C. Buccella, M. Feliziani, G. Manzi, "Pulse Shaping Numerical Procedures for Ultra Wide Bandwidth Systems", *IEEE Trans. Magnetics*, vol. 43, no. 4, pp. 1549-1552, Apr. 2007.
- [45]C. Buccella, V. De Santis and M. Feliziani, "Prediction of temperature increase in human eyes due to RF sources", *IEEE Trans. Electromag. Compat.*, vol. 49, no. 4, pp. 825-833, Nov. 2007.
- [46]C. Buccella, V. De Santis, M. Feliziani and P. Tognolatti, "Finite element modelling of a thin-film bulk acoustic resonator (FBAR)", *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 27, no. 6, pp. 1296-1306, 2008.
- [47]V. De Santis, M. Feliziani and F. Maradei, "Hybrid finite element/finite difference (FE/FD) model to analyze thermal transients in biological vascularized tissues", *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 27, no. 6, pp. 1307-1318, 2008.
- [48]V. De Santis, M. Feliziani, C. Buccella, and P. Tognolatti, "Prototype design of a thinfilm bulk acoustic-wave resonator by the finite element method", *IEEE Trans. Magnetics*, vol. 45, no. 3, pp. 1116-1119, Mar. 2009.
- [49]V. De Santis, M. Feliziani, F. Maradei and C. Buccella, "Finite element analysis of temperature increase in vascularized biological tissues exposed to RF sources", *IEEE Trans. Magnetics*, vol. 45, no. 3, pp. 1682-1685, Mar. 2009.
- [50]G. Manzi, M. Feliziani, P.A. Beeckman, and N. van Dijk, "Coexistence Between Ultra-Wideband Radio and Narrow-Band Wireless LAN Communication Systems?Part I: Modeling and Measurement of UWB Radio Signals in Frequency and Time", *IEEE Trans. Electromag. Compat.* vol.51, no. 2, pp. 372-381, May 2009.
- [51]G. Manzi, M. Feliziani, P.A. Beeckman, and N. van Dijk, "Coexistence Between Ultra-Wideband Radio and Narrow-Band Wireless LAN Communication Systems?Part II: EMI Evaluation", *IEEE Trans. Electromag. Compat.*, vol.51, no. 2, pp. 382-390, May 2009.
- [52]V. De Santis and M. Feliziani, "Circuit model of a receiving leaky line antenna (LLA)", *IEEE Trans. Electromag. Compat.* vol. 51, no. 3, pp. 852-859, Aug. 2009.
- [53]V. De Santis, M. Feliziani and F. Maradei, "Safety assessment of UWB radio systems for body area network by the FD2TD method", *IEEE Trans. Magnetics*, vol. 46, no. 8, pp. 1682-1685, Aug. 2010.
- [54]M. D'Amore, V. De Santis and M. Feliziani, "Magnetic shielding of apertures loaded by resistive coating", *IEEE Trans. Magnetics*, vol. 46, no. 8, pp. 1116-1119, Aug. 2010.

- [55]V. De Santis, P. A. Beeckman, D. A. Lampasi and M. Feliziani, "Assessment of human body impedance for safety requirements against contact currents for frequencies up to 110 MHz," *IEEE Trans. Biomedical Eng.*, vol. 58, no. 2, pp. 390-396, Feb. 2011.
- [56]M. D'Amore, V. De Santis, and M. Feliziani, "Equivalent circuit modeling of frequency selective surfaces based on nanostructured transparent thin films," *IEEE Trans. Magnetics*, vol. 48, no. 2, pp. 703-706, Feb. 2012.
- [57]
V. De Santis, S. Cruciani, M. Feliziani, and M. Okoniewski, "Efficient low order approximation for surface impedance boundary conditions in finite-difference time-domain method," *IEEE Trans. Magnetics*, vol. 48, no. 2, pp. 271-274, Feb. 2012.
- [58]M. Feliziani, "Subcell FDTD modeling of field penetration through lossy shields," *IEEE Trans. Electromag. Compat.*, vol. 54, no. 2, pp. 299-307, Apr. 2012.
- [59]
M. Feliziani and S. Cruciani, "FDTD modeling of Impedance Boundary Conditions by equivalent LTI circuits," *IEEE Trans. Microw. Th. Techn.*, vol. 60, no. 12, pp. 3656 - 3666, Dec. 2012.
- [60]M. Feliziani, S. Cruciani, V. De Santis, and F. Maradei, "FDTD analysis of electromagnetic field propagation in multipole dielectric media with and without convolution," *Progress In Electromagnetics Research B*, vol. 42, pp. 181-205, 2012.
- [61]
S. Cruciani, V. De Santis, M. Feliziani, and F. Maradei, "Circuit-oriented solution of Drude dispersion relations by the FDTD," *IEEE Trans. Magnetics*, vol. 50, no. 2, Feb. 2014.
- [62]
M. Feliziani, S. Cruciani, F. Maradei, "Circuit-Oriented FEM Modeling of Finite Extension Graphene Sheet by Impedance Network Boundary Conditions (INBCs)," *IEEE Trans. Terahertz Sc. Techn.*, vol. 4, no. 6, pp. 737-743, Feb. 2014.
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