NAME Mauro FELIZIANI

WORK EXPERIENCE

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

Sector Academic/University

Organisational / managerial skills

- 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-Off Co-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.

Publications See Annex I

International Steering Committee Chairman

- 2012-2015, EMC EUROPE Organization.

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 EUROPE 2000, Bruges, Belgium. - EMC EUROPE 2002, Sorrento, Italy. - EMC EUROPE 2004, Eindhoven, the Netherlands. - EMC EUROPE Workshop 2005, Rome, Italy. - 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.
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.
Academic Editor	- Wireless Power Transfer (Cambridge University Press - Hindawi journal) 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 at 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 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, 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, Seiville, 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 Antennas Propagation
- IEEE Transactions on Biomedical Circuits and Systems
- IEEE Access
- IEE Proceedings
- PIERS
- Compel
- Energies (MDPI)
- Electronics (MDPI)
- Sensors (MDPI)
- Wireless power transfer ((Cambridge University Press – Hindawi)

Editorial Board Member
- IEEE CEFC 1992, Los Angeles, USA.
- Compumag 1993, Miami, USA.
- IEEE CEFC 1994, Aix les Bains, France.
- EMC'94 ROMA, Int. Symp. on Electromagnetic Compatibility, Rome, Italy
- Compumag 1995, Berlin, Germany.
- EMC'96 ROMA, Int. Symp. on Electromagnetic Compatibility, Rome, Italy
- IEEE CEFC 1996, Okayama, Japan.
- Compumag 1997, Rio de Janeiro, Brasil.
- IEEE CEFC 1998, Tucson USA.
- EMC'98 ROMA, Int. Symp. on Electromagnetic Compatibility, Rome, Italy
- Compumag 1999, Sapporo, Japan.
- IEEE CEFC 2000, Milwaukee, Wisconsin, USA.
- EMC EUROPE 2000, Bruges, Belgium.
- Compumag 2001, Evian, France.
- IEEE CEFC 2002, Perugia Italy.
- EMC EUROPE 2002, Sorrento, Italy
- Compumag 2003, Saratoga Springs, NY, USA.
- IEEE CEFC 2004, Seoul, Korea
- EMC EUROPE 2004, Eindhoven, the Netherlands.
- EMC EUROPE Workshop 2005, Rome, Italy.
- IEEE CEFC 2006, Miami, Florida, USA.
- EMC EUROPE 2006, Barcellona, Spain
- IEEE CEFC 2006, Miami, Florida, USA.
- EMC EUROPE Workshop 2007, Paris, France.
- Compumag 2007, Aachen, Germany.
- IEEE CEFC 2008, Athens, Greece.
- EMC EUROPE 2008, Hamburg, Germany.
- EMC EUROPE Workshop 2009, Athens, Greece.
- Compumag 2009, Florianopolis, Santa Caterina, Brasil.
- IEEE CEFC 2010, Chicago Illinois, USA.
- EMC EUROPE 2010, Wroclaw, Poland.
- Compumag 2011, Sydney, Australia.
- EMC EUROPE 2011, York, UK.
- IEEE CEFC 2012, Oita, Japan.
- Compumag 2013, Budapest, Hungary.
- EMC EUROPE 2013, Brugge, Belgium.
- IEEE CEFC 2014, Aix-les- Bains, France.
- 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.
Research Project Coordination	-Progetto ENEA-CNR- 5% - Salvaguardia dell'uomo e dell'ambiente dalle elmissioni elettromagnetiche, 270 Milioni di lire, 2001-2003. Progetto PRIN 2001- "Diagnostica di guasti del sistema di cablaggio di un aeromobile", insieme alle Universita' 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 SSRdi 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. - Giubbetto 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,. - Giubbetto 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. De Santis, V & Feliziani, M., Domanda di Brevetto Italiano No. 102019000020766 depositata l'11/11/2019 "Sistema per misurare indirettamente un campo elettrico indotto in un cervello umano da un campo magnetico."

ANNEX

PUBLICATIONS OF MAURO FELIZIANI

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 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.

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[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.

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