Giuseppina Monti

Curriculum Vitae

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Professional experience

11/2019-present **Associate Professor**
@University of Salento - Dept. of Engineering for Innovation (Lecce, Italy)
Research field: Electromagnetic Fields

11/2015-11/2019 **Researcher, Tenure-track for the rank of Associate Professor**
@University of Salento - Dept. of Engineering for Innovation (Lecce, Italy)
Research field: Electromagnetic Fields

06/2015-10/2015 **Temporary Research Fellow**
@University of Salento - Dept. of Engineering for Innovation (Lecce, Italy)
Research field: Electromagnetic Fields

08/2014-05/2015 **Collaborator Engineer**
@Consorzio Nazionale per le Tecnologie Optoelettroniche dell'InP - OPTEL - National Consortium for InP-based Optoelectronic Technologies
Activity: The activity relates to the design of MMIC devices (phase shifters, attenuators, low-noise amplifiers, switches) and to the design of complex, passive microwave devices on LCP substrates (activity carried out within the research project titled "TASMA - Tecnologie Abilitanti per Sistemi di Monitoraggio Aeroportuale", funded by the MIUR - Italian Ministry of University and Research, code: PON R&C 2007-2013, Cod. PON01_02876)

05/2012-09/2014 **Temporary Research Fellow**
@University of Salento - Dept. of Engineering for Innovation (Lecce, Italy)
Research field: Electromagnetic Fields
(note: mandatory maternity leave for 5 months included)

05/2008-04/2012 **Temporary Research Fellow**
@University of Salento - Dept. of Engineering for Innovation (Lecce, Italy)
Research field: Electromagnetic Fields
Activity: Numerical techniques for the design of next-generation antennas.

07/2007-04/2008 **Collaborator Engineer**
@University of Salento - Dept. of Engineering for Innovation (Lecce, Italy)
Activity: Development and integration of sensor-equipped, passive RFId (activity carried out within the research project "Investigation of possible applications of RFId in healthcare system: design and realization of high-added value intelligent tags", funded by the Regione Puglia, Italy).

Additional professional experience and qualifications

2018-present **National scientific qualification as *Professore Ordinario*** (Italy)
2017-present **National scientific qualification as *Professore Associato*** (Italy)
2004-present **Licensed as Professional Engineer** (Italy)

Professional Activities in Research Projects

The following table lists the titles of the research projects, in which Giuseppina Monti has been involved. The second column indicates the title of the project. The third column indicates the type of funding: EU (European), National (N) or Regional (R).

year	title & description	fund.
2019	"HPC platform for wearable applications" (within the call for proposal Eurolab4HPC TTP)	EU.
2018 - 2020	"BENEFIT (BEnessere Nutrizionale e FIsico con Tecnologie indossabili)", funded by Regione Puglia - Italy	R
2015 - 2018	"Wireless energy transfer for powering implantable medical devices", funded by Regione Puglia - Italy (Call: Future In Research/FIR - project code: FOGIPJ13 - G. Monti was the scientific coordinator.	R
2016	"SMART-APP - Systems and Monitoring Apparata based on Reflectometric Techniques for Agricultural aPPlications" (within the Coordination Action FP7 TETRACOM)	EU
2014	"Wireless energy transfer for powering implantable medical devices", funded by Regione Puglia - Italy (Call: Future In Research/FIR - project code: FOGIPJ13 - G. Monti was the sole author and proposer of this project, which allowed the Department of Engineering for Innovation of the University of Salento to receive the funding for opening one temporary-researcher position).	R
2014-2015	"TASMA - Enabling Technologies for Airport Monitoring Systems" (ITA: "TASMA - Tecnologie Abilitanti per Sistemi di Monitoraggio Aeroportuale"), funded by the MIUR - Italian Ministry of University and Research, project code: PON01_02876 - G. Monti's activity focused on the design of complex, passive microwave devices on LCP substrates.	N
2010-2012	"Highly Energy-efficient, Distributed Sensor Network Operating with Pulsed Signals in the Ultra Wide Band, for Industrial and Avionic Monitoring"(ITA: "REte di seNsori Distribuita ad Elevata efficienZa energetica per monitoraggio industriale ed aVionico Operante in banda Ultralarga con radio a impulSi - RENDEZ VOUS)", funded by Regione Puglia, Italy within the Call "Aiuti a Sostegno dei Partenariati Regionali per l'Innovazione" - project code: LIC6H51 - G. Monti was one of the Authors of the accepted Project Proposal, and she was also the person in charge for the activities regarding the design, fabrication and characterization of compact, wide-band antennas.	R
2010-2012	"RFID-FARM2FORK (F2F)", funded within the ICT (Information and Communication Technology) Programme PSP (Policy Support Programme) CIP (Competitiveness and Innovation Programme). G. Monti's activity focused on the design and fabrication of high-added value tag antennas.	EU
2009–2013	"Nano-Rectenna for highly-efficient, direct conversion of solar energy into electric current" (ITA: "Nano-Rectenna per la conversione diretta ad alta efficienza di luce solare in elettricità"), funded by Regione Puglia, within the Programme POR 2000-2006. G. Monti wrote the project proposal and was in charge of the activities related to the design of nano-rectennas.	R
2008-2009	"Expert in intelligent, wireless systems" (ITA: "Esperto in sistemi wireless intelligenti"), funded within the FIXO Programme Progetto Nazionale Progetto FIXO (Formazione e Innovazione per l'Occupazione). G. Monti was the teacher of a course related to Computer Aided Design of Microwave circuits (total teaching hours: 37).	N

2007-2008	"Investigation of possible applications of RFId in healthcare system: design and realization of high-added value intelligent tags" (funded by Regione Puglia, Italy). G. Monti's activity focused on the development of miniaturized tags, which could guarantee robust performance on different surface materials.	R

Education

2007 **Ph.D. Degree in Information Engineering**
field: Electromagnetics
@University of Salento (Lecce, Italy)
Thesis: '*Double Negative Media: Electromagnetic Analysis and Applications*'.
Advisor: Prof. L. Tarricone.

> ***Abstract:****The work focused on the study of the electromagnetic propagation of finite-bandwidth modulated signals inside double negative slabs, as well as on the new perspectives opened by the use of artificial transmission lines (ATL) to improve the performance of microwave circuits and antennas. In particular, G. Monti applied the ATL approach in order to obtain broad-band and/or dual-band behaviour as well as compact dimensions.*

2003 **Master's Degree in Telecommunication Engineering**
@University of Bologna (Bologna, Italy)
Thesis: '*Compatibilità Elettromagnetica per Circuiti a Microonde Non Lineari*'
Advisor: Prof. V. Rizzoli; Co-Advisor: Prof. A. Costanzo

> ***Abstract:*** *The work proposed a new solution to the standard electromagnetic compatibility problem for nonlinear RF/microwave integrated circuits. According to the proposed solution, the radiation from a given circuit is first numerically analyzed by means of electromagnetic simulation. Under the assumption of a uniform plane Wave incident on the circuit, the reciprocity theorem is then used to characterize the linear subnetwork by a Norton equivalent circuit. Finally, a multitone harmonic-balance analysis allows the effects of the incident wave on the circuit electrical regime to be exactly investigated.*

Teaching activities in University courses

- course: *CAD and laboratory of high frequency circuits and antennas*
  M.S. Programme in Communication Engineering and Electronic Technologies
  @University of Salento - Faculty of Engineering
  Academic year from 2019/2020 to present.
- course: *CAD of high frequency circuits and antennas*
  M.S. Programme in Telecommunication Engineering
  @University of Salento - Faculty of Engineering
  From Academic year 2009/2010 through Academic year 2018/2019.
- course: *CAD of microwave and optical circuits*
  M.S. Programme in Telecommunication Engineering
  @University of Salento - Faculty of Engineering
  Academic years: 2007/2008 and 2008/2009.
- course: *Methods of optimization and electromagnetic simulations* (30 hours)
  Postgraduate Course titled: "Expert in Study, realization and design of devices for the direct conversion of solar energy into current (solar rectennas)", within the research project Nano-Rectenna For High Efficiency Direct Conversion of Sunlight to Electricity
  @University of Salento (Lecce, Italy)

from 03/2012 to 04/2012.

- course: *EM techniques and technologies for intelligent wireless systems*
  Ph.D. Programme in Information Engineering
  @University of Salento - Faculty of Engineering
  July 2009.
- course: *One Module*
  Undergraduate Course for Experts in Intelligent Wireless Systems, within the FixO (Training courses and Innovation for Occupation) Programme
  @University of Salento
  from 09/2008 to 12/2008.
- course: *Methods and techniques for Measurements and Applied Electromagnetics*
  Ph.D. Programme in Information Engineering
  @University of Salento - Faculty of Engineering
  April 2008.

Additional teaching activities and support in University courses

- (2004 - present) Support in teaching activities of the courses in the field of Electromagnetics @University of Salento - Faculty of Engineering.
  Titles of the courses:
  1) *Antennas and Propagation*
  2) *Electromagnetic Compatibility*
  3) *Electromagnetic Fields*
  4) *Industrial Applications of Electromagnetics.*
- Member of the Board of Examiners for the aforementioned courses
  from Academic Year 2007/2008 to present.
- teaching support in the course *Microwaves*
  M.S. Programme in Telecommunication Engineering
  @University of Salento - Faculty of Engineering
  From Academic year 2004/2005 through Academic year 2014/2015.
  Activity: Support in the classroom and laboratory experiments.
- Teacher in a Continuing Education Course (organized by ENAIP Puglia)
  from 01/2008 to 03/2008.

Achievements in Technology Transfer, Prizes, and Recognitions

- 2018 - Proposer of the project idea “Smile after cancer” that won the first prize within the IDEAS competition instituted by the National, Inter-University Consortium for Telecommunications (CNIT).
- (2014) Co-inventor of the Italian patent titled *Lamphar: energy harvester for power generation by spurious emission from compact fluorescent lamps*,
  Application no. #: RM2014A000600
  date of filing: Oct. 21, 2014

- (08/2012) As a member of the company *STEP (Solution and Technologies for Electromagnetic project, Spin off company of the University of Salento)*, G. Monti was the proposer of the project idea that won the first prize (in the Agrifood-Cleantech category), within the "Start Cup Puglia 2012" competition. The project idea was related to wireless power transfer technologies for impartable medical devices.
- (09/2008) Co-author of the paper “Sfasatore a tre stati in tecnologia MEMS-CRLH” (ENG: "MEMS-CRLH based three-state shifter"), which was the recipient of the "Mario Sannino Award", instituted by the Centro Interuniversitario di Ingegneria delle Microonde per Applicazioni Spaziali (MECSA - Inter-university Center of Microwave Engineering for Aerospace

Applications), within the XVII Riunione Nazionale di Elettromagnetismo (RiNEm-2008).

Memberships in Professional Associations

- Senior Member of the IEEE Society
- Member of the SIEM "Societá Italiana di Elettromagnetismo" ("Italian Society of Electromagnetism")

Member of Technical Program Committees (TPC) of International Conferences

- Member of the Technical Program Committee of the “Wireless Power Week (WPW) 2019"’, bringing together the IEEE Wireless Power Transfer Conference (WPTC) in it’s 7th year, and the IEEE PELS Workshop on Wireless Power (WoW).
- Member of the Technical Program Committee of the “2019 IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP)"’, Bochum (Germany), 16-18 July, 2019.
- Member of the Technical Program Committee of the “2017 IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP)"’, Pavia, 20-22 September, 2017.
- Member of the Local Organizing Committee of the 15th edition of the Mediterranean Microwave Symposium (November 30-December 2, 2015), Lecce, Italy.
- Member of the Local Organizing Committee of the "‘11th International Symposium on RF MEMS and RF Microsystems"’ (June 28-30, 2010), Otranto, Italy.
- Member of Organizing Committee of the "‘XVII RiNEm Riunione Nazionale di Elettromagnetismo"’ (ENG: XVII Italian Meeting on Electromagnetics) (Sept. 15-19, 2008), Lecce, Italy.

Serves as a Reviewer for the following Journals:

- IEEE Transactions on Microwave Theory and Techniques
- IEEE Microwave and Wireless Components Letters
- IEEE Antennas and Wireless Propagation Letters
- IET Microwaves, Antennas Propagation
- Radioscience
- Wireless Power Transfer (Cambridge)
- International Journal of Antennas and Propagation
- International Journal of Microwave and Wireless Technologies
- International Journal of Microwave and Wireless Technologies
- Journal of Microwaves, Optoelectronics and Electromagnetic Applications published by the Brazilian Microwave and Optoelectronics Society (SBMO)

Member of the Editorial Board of the following Journal:

- Area Editor e Associate Editor of the journal “Microwave and Optical Technology Letters” (Wiley) (IF=0.948)
- Associate Editor of the Journal Electrical Engineering, Springer (IF=1.269)
- Associate Editor of the journal "International Journal of Electronics and Communications”, Elsevier.
- Associate Editor of the journal "Wireless Power Transfer" (Cambridge) .
- Associate Editor of the journal "International Journal of Antennas and Propagation" (Hindawi, IF = 1.164)
- Journal of Advanced Internet of Things (Columbia)

Other Professional Activities

- Advisor of more than 40 BSc Degree theses in Information Engineering, @University of Salento (Lecce, Italy).

- Advisor of 30 MS Degree Theses in Communication Engineering, @University of Salento (Lecce, Italy).

Brief Description of the Research Activities

G. Monti's research activity is multifolded. The first area in chronological order is related to the Computer Aided Design (CAD) of high performance microwave circuits and antennas. In particular, her doctoral research activity was focused on the study of the electromagnetic propagation of finite-bandwidth modulated signals inside double negative slabs, as well as on the new perspectives opened by the use of artificial transmission lines (ATL) to improve the performance of microwave circuits and antennas. In particular, G. Monti applied the ATL approach in order to obtain broad-band and/or dual-band behaviour as well as compact dimensions. Further research areas developed these last years involves: the design of compact and platform tolerant antennas for radiofrequency identification systems (RFID), the design of microwave systems for time-domain reflectometry, the development of an electrical equivalent circuit for the modelling of carbon-nanotube inks, the design of reconfigurable devices and antennas, devices based on the use of micro electro-mechanical systems, the investigation of the use of metal foams for electromagnetic shielding applications, the design of rectennas for solar energy conversion to direct current. Since 2007, the research activities of G. Monti have been focused on the area of electromagnetic enabling technologies for energy autonomous smart systems. Special emphasis is put on reconfigurable devices for cognitive networks, energy harvesting, wireless power transmission (WPT). With regard to the development of technologies for WPT and energy harvesting, G. Monti is active both on 1) the design of low-power long-range power links based on the use of rectennas: the emphasis is on the design of rectennas for the harvesting of the electromagnetic energy associated to wireless systems such as RFID and the design of wearable rectennas for on-body applications. 2) the design and the theoretical analysis of high-power low/mid-range power links based on the use of electromagnetically coupled resonant systems (wireless resonant energy links). In this contest, G. Monti contributed to the theoretical analysis of non-radiative WPT links based on magnetic coupling, and, in particular, of links using multiple transmitters and/or receivers and links using relay elements. Another research activity concerns the development of novel devices exploiting a resonant magnetic coupling for the harvesting of spurious emissions from electronic devices. Additionally, since 2012, G. Monti is investigating the use of non-radiative WPT links for achieving the energy autonomy of implanted medical devices. The basic idea is to use a magnetic resonant energy link combined with rechargeable batteries in order to lengthen the lifetime of implantable medical devices such as pulse generators for cardiac and deep brain stimulation. In this contest, G. Monti has been proposed some prototypes working in the MedRadio band centered at 403 MHz, which is a frequency band reserved to medical; as a consequence, the choice of using for the WPT link an operating frequency in the MedRadio band enables the use of the same device for both power and data transmission.

List of publications

Books

M. Mongiardo, G. Monti, T. Rozzi, G. Venanzoni, "Parallel Grid-enabled FDTD for the characterization of metamaterials", chapter 8 of the book: "Advances in Information Technologies for Electromagnetics", Editors: Alessandra Esposito, Luciano Tarricone, published in 2021 by libreriauniversitaria.it.

Chapters in books

1. L. Catarinucci, G. Monti, P. Palazzari, L. Tarricone, "Campi elettromagnetici con l'algebra geometrica", published in 2006 by Springer, ISBN: 1402047487.
2. Marco Dionigi, Alessandra Costanzo, Franco Mastri, Mauro Mongiardo and Giuseppina Monti, "Recent Advances on Magnetic Resonant Wireless Power Transfer," chapter of the

book WIRELESS POWER TRANSMISSION, River Publishers, Alsbjergvej 10, Gistrup 9260, Denmark, ISBN: 9788793237629.

3. Giuseppina Monti, Mauro Mongiardo, Franco Mastri, Alessandra Costanzo, Laura Corchia and Luciano Tarricone, "Non-radiative Wireless Power Transmission: Theory and Applications," by Springer.
4. Mauro Mongiardo, Tullio Rozzi, Giuseppe Venanzoni, Franco Mastri, Davide Mencarelli, Giuseppina Monti, Engineering Electromagnetics using Geometric Algebra, under review to be published by Cambridge University Press.

Articles on Peer-reviewed International Journals

1. G. Monti, L. Tarricone, "A Novel Theoretical Formulation for the Analysis of the Propagation of Finite-bandwidth Signals in a Double-negative Slab," Microwave Optical Technology Letters published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 47, Issue 5, pp. 434-439, DOI: 10.1002/mop.21193, ISSN: 0895-2477, Oct. 2005.
2. G. Monti, L. Tarricone, "Gaussian Pulse Expansion of Modulated Signals in a Double-Negative Slab," IEEE Transactions on Microwave Theory and Techniques published by IEEE (Piscataway, NJ, USA), Vol. 54, Issue 6, part 2, pp. 2755-2761, DOI: 10.1109/TMTT.2006.874879, ISSN: 0018-9480, June 2006.
3. G. Monti, L. Tarricone, "Dual-Band Artificial Transmission Lines Branch-Line Coupler," Int. Journal of RF and Microwave Computer-Aided Engineering published by John Wiley & Sons Inc. (111 River Street, Hoboken, NJ 07030), Vol. 18, Issue 1, pp. 53-62, DOI: 10.1002/mmce.20266, ISSN: 1096-4290, Sept. 2007.
4. L. Corchia, G. Monti, L. Tarricone, "MEMS-Reconfigurable Bandpass Filter," Microwave Optical Technology Letters published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 50, Issue 8, pp. 2096-2099, DOI: 10.1002/mop.23570, ISSN: 0895-2477, August 2008.
5. G. Monti, L. Tarricone, "Compact Broadband Monolithic 3-dB Coupler by using Artificial Transmission Lines," Microwave and Optical Technology Letters published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 50, Issue 10, pp. 2662-2667, DOI 10.1002/mop.23735, ISSN: 0895-2477, Oct. 2008.
6. A. Cataldo, G. Monti, E. De Benedetto, G. Cannazza, L. Tarricone, L. Catarinucci, "Assessment of a TD-based method for characterization of antennas," IEEE Transactions on Instrumentation and Measurement published by IEEE (Piscataway, NJ, USA), Vol. 58, Issue 5, pp. 1412-1419, ISSN: 0018-9456, INSPEC Accession Number: 10571099, DOI: 10.1109/TIM.2008.2009199, May 2009.
7. A. Cataldo, G. Monti, E. De Benedetto, G. Cannazza L. Tarricone, "A Noninvasive Resonance-based Method for Moisture Content Evaluation Through Microstrip Antennas," IEEE Transactions on Instrumentation & Measurement published by IEEE (Piscataway, NJ, USA), Vol. 58, Issue 5, pp. 1420-1426, ISSN: 0018-9456, DOI: 10.1109/TIM.2009.2014513, May 2009.
8. A. Cataldo, E. De Benedetto, G. Monti, G. Cannazza, "A reliable low-cost method for accurate characterization of antennas in time domain," Metrology and Measurement Systems Journal published by De Gruyter (Berlin, Germany), Vol. XV, Issue 4, pp. 571-583, 2008.
9. G. Monti, L. Catarinucci, L. Tarricone, "Compact Microstrip Antenna for UHF-RFID Applications," PIERL-Progress In Electromagnetics Research Letters published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 8, pp. 191-199, DOI:10.2528/PIERL0904280, E-ISSN 1937-6480, 2009.
10. G. Monti, F. Congedo, L. Tarricone, "On The Use of a Rat-Race coupler in the Design of a 180◦ Phase Shifter," JEMWA-Journal of Electromagnetic Waves and Applications published by Brill-VSP (Leiden, Netherlands), Vol. 23, pp. 1201–1210, ISSN 0920-5071, Online ISSN: 1569-3937, DOI: 10.1163/156939309789023529, 2009.
11. G. Monti, L. Tarricone, "Signal Reshaping in a Transmission Line with Negative Group Velocity Behaviour," Microwave Optical Technology Letters published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 51, Issue 11, pp. 2627-2633, DOI: 10.1002/mop.24688, ISSN: 0895-2477, 2009.
12. G. Monti, L. Tarricone, "Negative Group Velocity in a Split Ring Resonator-Coupled Microstrip

Line," PIER-Progress In Electromagnetics Research published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 94, pp. 33-47, DOI: 10.2528/PIER09052801, ISSN: 1070-4698, E-ISSN: 1559-8985, 2009.

13. G. Monti, L. Corchia, L. Tarricone, "Patch Antenna with Reconfigurable Polarization," PIER C-Progress In Electromagnetics Research C published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 9, pp. 13-23, DOI: 10.2528/PIERC09061505, E-ISSN: 1937-8718, 2009.
14. G. Monti, R. De Paolis, L. Tarricone, "Design of a 3-state Reconfigurable CRLH Transmission Line Based on MEMS Switches," PIER-Progress In Electromagnetics Research published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 95, pp. 283-297, DOI: 10.2528/PIER09071109, ISSN: 1070-4698, E-ISSN: 1559-8985, 2009.
15. G. Monti, L. Tarricone, "Dispersion Analysis of a Negative Group Velocity Medium with MATLAB," Applied Computational Electromagnetics Society Journal, published by ACES – Applied Computational Electromagnetics Society (Monterey, California, USA), Vol. 24, Issue 5, pp. 478-486, ISSN: 1054-4887, October 2009.
16. G. Monti, L. Catarinucci, L. Tarricone, "Broad-Band Dipole for RFID Applications," PIER-C Progress In Electromagnetics Research published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 12, pp. 163-172, DOI: 10.2528/PIERC10012606, ISSN: 19378718, 2010.
17. G. Monti, L. Catarinucci, L. Tarricone, "New Materials for Electromagnetic Shielding: Metal Foams with Plasma Properties," Microwave and Optical Technology Letters published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 52, Issue 8, pp. 1700-1705, DOI: 10.1002/mop.25309, ISSN: 08952477, Aug. 2010.
18. D. De Donno, A. Esposito, G. Monti, L. Tarricone, "Parallel Efficient Method of Moments Exploiting Graphics Processing Units", Microwave and Optical Technology Letters published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 52, Issue 11, pp. 2568-2572, DOI: 10.1002/mop.25534, ISSN: 08952477, Nov. 2010 .
19. G. Monti, L. Corchia, L. Tarricone, T. Idda, F. Coccetti, R. Plana, "Broadband compact planar monopole", Microwave and Optical Technology Letters published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 53, Issue 12, pp. 2838-2842, DOI: 10.1002/mop.26378, ISSN: 08952477, 2011.
20. G. Monti, L. Tarricone, M. Spartano, "X-Band Planar rectenna", Antennas and Wireless Propagation Letters published by IEEE (Piscataway, NJ, USA), Vol. 10, pp. 1116-1119, INSPEC Accession Number: 12297183, DOI:10.1109/LAWP.2011.2171029, ISSN: 1536-1225, 2011.
21. G. Monti, F. Congedo, "UHF Rectenna Using a Bowtie Antenna", Progress In Electromagnetics Research C published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 26, pp. 181-192, DOI: 10.2528/PIERC11102706, ISSN: 19378718, 2012.
22. M. Anni, A. Perulli, and G. Monti, "Thickness dependence of the amplified spontaneous emission threshold and operational stability in poly(9,9-dioctylfluorene) active waveguides," Journal of Applied Physics published by AIP Publishing (Melville, New York, USA), Vol. 111, Issue 9, 093109; DOI: 10.1063/1.4711993, ISSN: 00218979, view on line: http://dx.doi.org/10.1063/1.4711993 (5 pages), 2012.
23. G. Monti, L. Corchia, L. Tarricone, "Planar Bowtie Antenna with a Reconfigurable Radiation Pattern", Progress In Electromagnetics Research C published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 28, pp. 61-70, DOI: 10.2528/PIERC12021104, ISSN: 19378718, 2012.
24. D. De Donno, A. Esposito, G. Monti, L. Tarricone, "MPIE/MoM Acceleration with a General Purpose Graphics Processing Unit," IEEE Transactions on Microwave Theory and Techniques published by IEEE (Piscataway, NJ, USA), Vol. 60, Issue 9, pp. 2693–2701, DOI: 10.1109/TMTT.2012.2203924, ISSN: 0018-9480, July 2012.
25. G. Monti, L. Tarricone, C. Trane, "Experimental Characterization of a 434 MHz Wireless Energy Link For medical Applications," Progress In Electromagnetics Research C pub-

lished by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 30, pp. 53-64, DOI: 10.2528/PIERC12032606, ISSN: 19378718, May 2012.

26. G. Monti, F. Congedo, D. De Donno, L. Tarricone, “Monopole-Based Rectenna for Microwave Energy Harvesting of UHF Systems,” Progress In Electromagnetics Research C published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 31, pp. 109-121, ISSN: 19378718, 2012.
27. G. Monti, L. Corchia, L. Tarricone, “ISM band rectenna using a ring loaded monopole,” Progress In Electromagnetics Research C published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 33, pp. 1-15, DOI: 10.2528/PIERC12082813, ISSN: 19378718, 2012.
28. L. Catarinucci, G. Monti, and L. Tarricone, "Metal foams for electromagnetics: experimental, numerical and analytical characterization," Progress In Electromagnetics Research B published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 45, pp. 1-18, DOI: 10.2528/PIERB12082913, ISSN: 19376472, 2012.
29. G. Monti, L. Corchia, and L. Tarricone, "A microstrip antenna with a reconfigurable pattern for RFID applications," Progress In Electromagnetics Research B published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 45, pp. 101-116, DOI:10.2528/PIERB12090805, ISSN: 19376472, 2012.
30. D. De Donno, A. Esposito, G. Monti, L. Catarinucci, L. Tarricone, "GPU-based Acceleration of Computational Electromagnetics Codes", International Journal of Numerical Modelling: Electronic Networks, Devices and Fields published by John Wiley & Sons Inc. (Hoboken, NJ, USA), Vol. 26, Issue 4, pp. 309-323, DOI: 10.1002/jnm.1849, ISSN: 08943370, July 2013.
31. F. Pisanello, R. De Paolis, D. Lorenzo, S. Nitti, G. Monti, D. Fragouli, A. Athanassiou, L. Manna, L. Tarricone, M. De Vittorio, L. Martiradonna, “Radiofrequency characterization of polydimethylsiloxane – iron oxide based nanocomposites,” Microelectronic Engineering published by Elsevier B. V (Amsterdarm, Netherlands), Vol. 111, pp. 46–51, doi:10.1016/j.mee.2012.11.013, ISSN: 01679317, November 2013.
32. G. Monti, R. De Paolis, and L. Tarricone, "A three-band t-junction power divider based on artificial transmission lines," Progress In Electromagnetics Research C published by EMW Publishing (Cambridge, Massachusetts, USA), Vol. 34, pp.: 41-52, DOI:10.2528/PIERC12091707, ISSN: 19378718, 2013.
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La sottoscritta GIUSEPPINA MONTI, autorizza il trattamento dei dati personali ai sensi del D.lgs. 196 del 30 giugno 2003 e, consapevole delle responsabilità penali, richiamate dall'art. 76 del D.P.R. n. 445/2000, cui può andare incontro in caso di falsità in atti e di dichiarazioni mendaci, dichiara che le informazioni riportate nel presente documento corrispondono a verità ai sensi degli artt. 46 e 47 del D.P.R. 28 dicembre 2000, n. 445 e ss.mm.ii.

Lecce (Italy), November 21, 2021
Giuseppina Monti