Danilo Erricolo, Ph.D., IEEE Fellow

Professor of Electrical and Computer Engineering
Adjunct Professor of Bioengineering
Director, Andrew Electromagnetics Laboratory

Editor-in-Chief, IEEE Transactions on Antennas and Propagation

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[redacted]
3 maggio, 2018

Table of Contents

PROFESSIONAL POSITIONS

University of Illinois at Chicago
Department of Electrical and Computer Engineering
Professor
August 2012 to present
Adjunct Professor of Bioengineering
March 2013-present
Associate Professor
August 2007 to August 2012
Associate Professor (Tenure track)
August 2004 to August 2007

University of Illinois at Chicago, College of Engineering
Andrew Electromagnetics Laboratory
Director
August 2012- present
Associate Director
August 2002 to August 2012

University of Illinois at Chicago, College of Engineering
Research Scientist/Internet Coordinator and Webmaster/ Lecturer
January 2000 to August 2004

Post-Doctoral Research Fellow
University of Illinois at Chicago, College of Engineering
January 1999 to December 1999

Research Assistant
University of Illinois at Chicago, Department of Electrical Engineering and Computer Science
August 1995 to December 1998

Teaching Assistant
University of Illinois at Chicago, Department of Electrical Engineering and Computer Science
January to July 1998
September to December 1996

Research Assistant
Politecnico di Milano, Department of Electronics Engineering
September 1993 to December 1993

EDUCATION

Doctor of Philosophy in Electrical Engineering and Computer Science
University of Illinois at Chicago, Chicago, Illinois, December 1998
Dissertation: *Wireless Communications in an Urban Environment.*

Laurea Degree of Doctor in Electronics Engineering, summa cum laude
Technical University of Milan (Politecnico di Milano), Milan, Italy, July 1993
Dissertation: *Theory of Contribution to Series Noise Due to a Capture Center in a Junction Field Effect Transistor.*

HONORS

Institute of Electrical and Electronics Engineers[1] (IEEE)

- Elevated to Fellow[2], for contributions to electromagnetic scattering and associated computational algorithms, 2016
- Chair, *IEEE Antennas and Propagation Society Distinguished Lecturer Program*, 2015-2016
- General Chairman, *2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting.* Chicago, IL, July 8-14, 2012
- Elected, Administrative Committee Member, *IEEE Antennas and Propagation Society*, 2012-2014
- Steering Committee Member, *IEEE Antennas and Propagation Society International Symposium*, Spokane, WA, 2011
- Chair, IEEE Chicago Chapter of the Antennas and Propagation/Microwave Theory and Techniques Societies, 2011-present
- Steering Committee Member, *IEEE Antennas and Propagation Society International Symposium*, Honolulu, HI, 2007
- Technical Program Committee Member, *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, 2004-2013
- Senior Member, 2003

United States National Committee (USNC) of the International Union of Radio Science[3] (URSI), (a committee of the U.S. National Academies)

- IEEE AP-S Representative of USNC-URSI, 2018-2020
- Elected Full Member of USNC-URSI Commission C, 1/2013-present
- Elected, USNC-URSI Member at Large, 2012-2017
- Elected Chair of USNC-URSI Commission E, 1/2009-12/2011
- Vice-General Chairman, 2008 URSI General Assembly

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[1] IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. There are more than 420,000 members in over 160 countries.
[2] According to IEEE, "*...The IEEE Grade of Fellow is conferred by the Board of Directors upon a person with an extraordinary record of accomplishments in any of the IEEE fields of interest. The total number selected in any one year does not exceed one-tenth of one percent of the total voting Institute membership...*"
[3] The International Union of Radio Science (Union Radio-Scientifique Internationale- URSI) is the oldest international organization in the field of radio science and was founded in 1922. Radio science encompasses the knowledge and study of all aspects of electromagnetic fields and waves. It is a non-governmental and non-profit organization under the International Council for Science, is responsible for stimulating and coordinating, on an international basis, studies, research, applications, scientific exchange, and communication in the fields of radio science.

- Elected Vice-Chair of USNC-URSI Commission E, 1/2006-12/2008
- Elected Secretary of USNC-URSI Commission E, 1/2004-12/2005
- Elected Full Member of USNC-URSI Commission E, 1/2004-present
- Appointed URSI Member of Joint Symposia Meetings Committee, 1/2006-12/2017
- Elected Member of Technical Activities Committee USNC-URSI Commission B, 6/2003-12/2008
- Elected Full Member of USNC-URSI Commission B, 6/2002-present

Editorships

- Editor-in-Chief, *IEEE Transaction on Antennas and Propagation*, Aug. 2016-present
- Associate Editor, *Radio Science*, 2014-2016
- Associate Editor, *IEEE Transactions on Antennas and Propagation*, 2013-2016
- Guest Editor, *Radio Science*, Special Section on the National Radio Science Meeting, 2012
- Lead Guest Editor (co-editors: Dr. Francesco Soldovieri, Italian National Research Council, and Dr. Weng Cho Chew, Hong Kong University and University of Illinois at Urbana-Champaign), Special issue on "Propagation models and inversion approaches for subsurface and through wall imaging," *International Journal of Antennas and Propagation*, 2012
- Guest Editor, Special Issue Electromagnetics Journal, Dec. 2005 and Jan. 2006
- Senior Associate Editor for the Antennas and Wireless Propagation Letters, a publication of the Institute of Electrical and Electronics Engineers, Oct. 2001-Dec. 2014

UIC awards

- Hope Award, 2018
- University Scholar, 2017
- CoE Teaching Award, 2016
- UIC Teaching Recognition Program, 2013
- CoE Faculty Undergraduate Advising Award, 2008, 2013
- UIC Areas of Excellence Program Award Recipient, 2012
- CoE Faculty Research Award, 2008
- CoE Gold Faculty Research Award, 2006

Other

- Air Force Summer Faculty Fellowship Program, 2009
- Eta Kappa Nu Honor Society, 4/2004-present.
- Andrew Fellowship, 1997, 1998
- Beltrami Fellowship, 1995, 1996
- Cami Fellowship, 1989, 1990, 1991, 1992
- Italtel Scholarship, 1988

RESEARCH GRANTS AND INTERESTS

External Research Grants

- Principal investigator of the project sponsored by the United States Army Research Office (award number W911NF-17-1-0525) entitled "Three Birds With One Stone: High Frequency Instrumentation For Semiconductor Device, Radar and Communication System Measurements," funded for an overall amount of $593,318. Period of performance: Sept. 18 2017 through Sept. 17, 2018.

- Co-principal investigator of the project sponsored by the United States National Science Foundation (award number 1443967) entitled "EARS: Collaborative Research: Let's share CommRad -- spectrum sharing between communications and radar systems," funded for an overall amount of $700,000. Period of funding Jan. 1, 2015 through Dec. 31, 2017.

- Principal investigator of the project sponsored by the United States Department of Defense/Air Force Office of Scientific Research (award number FA9550-12-1-0174) entitled "*Distributed RF systems for close-in sensing and imaging*" funded for an overall amount of $544,240. Period of funding Apr. 1, 2012 through Dec. 31, 2015.

- Principal Investigator of the project sponsored by the United States Department of Defense/Air Force Research Laboratory through RNET entitled "*Research Tasking for RF Tomography*" funded for an overall amount of $50,000 for the period starting on Mar. 21, 2012 through Sept. 30, 2012.

- Principal investigator of the project sponsored by the United States Department of Defense/Air Force Office of Scientific Research (award number FA9550-05-1-0443) entitled "*Adaptive waveform design for full spectral dominance: Extension of research work plan*" funded for an overall amount of $125,000. Period of funding: Jul. 1, 2010 through Dec. 31, 2010.

- Principal investigator of the Defense University Research Instrumentation Program (DURIP) sponsored by the United States Department of Defense (award number FA9550-07-1-0554) entitled "*DURIP: Acquisition of instrumentation for high frequency measurements at the University of Illinois at Chicago*" funded for an overall amount of $138,350. Period of funding Aug. 1, 2007 through Jul. 31, 2008.

- Co-principal investigator/principal investigator of the Multidisciplinary University Research Initiative (MURI) project sponsored by the United States Department of Defense/Air Force Office of Scientific Research (award number FA9550-05-1-0443) entitled "*Adaptive waveform design for full spectral dominance*" funded for an overall amount of $5,500,000. Period of funding: Jul. 1, 2005 through Dec. 31, 2010.

- Co-principal investigator of the Defense Advanced Research Project Agency (DARPA) project sponsored by the United States Department of Defense (award number N00173-06-1-G006) entitled "*Adaptive waveform design for detecting low-grazing-angle and small-RCS targets in complex maritime environments*" funded for an overall amount of $1,643,733. Period of funding: Jan. 15, 2006 through Oct. 14, 2007.

- Co-principal investigator of the Multidisciplinary University Research Initiative (MURI) project sponsored by the United States Department of Defense (award number F49620-01-0436) entitled "*Analysis and design of ultrawide-band and high-power microwave pulse interactions with electronic circuits and systems*" funded for an overall amount in excess of $4,000,000. Period of funding: May 1, 2001 through Sept. 30, 2006.

- Co-author of the National Science Foundation proposal ECS-9979413 entitled "*High-speed and high quality of service wireless communications in outdoor environments through realistic test bed for transmitter, channel and receiver*" funded for an amount in excess of $200,000. Period of funding: Sept. 1, 1999 through Aug. 31, 2002.

Internal Research Grants

- Co- Principal Investigator (with Prof. Besma Smida) of the proof-of-concept project entitled *"Inherent Self-interference Cancellation for In-band Full-duplex Wireless Communications,"* funded by the Chancellor's Innovation Fund in the amount of $50,000 for the period Feb. 1, 2018 through June 30, 2018.
- Co-Principal Investigator (PI Prof. Jingjing Li) of the proposal entitled *"Metamaterials for Microwave Cancer Therapy and Bio-imaging"* funded in the amount of $20,000 by the Vice-Chancellor for Research Areas of Excellence Program in the amount of $20,000 for the period Feb. 15, 2012 through August 30, 2013.
- Principal investigator of the project entitled "*CETL: New undergraduate course on transients in electromagnetics*" funded in the amount of $10,000 to support one research assistant during the period June 1, 2006 through April 30, 2007.
- Principal investigator of the campus research board grant entitled "*CRB: Exploratory research in ultra wideband propagation prediction models*" funded in the amount of $11,937 to support a research assistant during the period July 1, 2005 through June 30, 2006.

Research Interests

Wireless communications and radio wave propagation, electromagnetic modeling, measurements and simulation, computational electromagnetics, electromagnetic compatibility, computation of special functions, time-domain electromagnetics, mathematical physics and modern optics, magnetic resonance imaging, remote sensing of nuclear radiation, radar.

TEACHING EXPERIENCE

Graduate Student Advising and Supervision

Ph.D. students advised

Graduated

1. Lorenzo Lo Monte, Jan. 2006-Aug. 2009 (passed Ph.D. qualifier in Spring 2007, passed Ph.D. preliminary in Spring 2008, defended in June 2009), thesis title "*Radio Frequency Tomography For Underground Void Detection*".
2. Stefano M. Canta, Aug. 2005-Aug. 2010 (passed Ph.D qualifier exam in Spring 2006, passed Ph.D. preliminary in Nov. 2008, defended in June 2010), thesis title "*High-Frequency Incremental Methods for Electromagnetic Complex Source Points*".
3. Giuseppe Carluccio, Jan. 2007-Dec. 2011 (passed Ph.D. qualifier in Spring 2008, passed Ph.D. preliminary Fall 2009, defended on Oct. 21, 2011), thesis title "*Locally optimized B1 field for MRI systems.*"
4. Oguzhan Akgol, Aug. 2005-Dec. 2011 (passed Ph.D. qualifier in Spring 2007, passed Ph.D. preliminary in Dec. 2009, defended on Oct. 14, 2011), thesis title "*Electromagnetic behavior of various DNG metamaterial structures with elliptical surfaces.*"
5. Badria M. Elnour, Aug. 2004-May 2012 (passed Ph.D. preliminary exam in Fall 2007, passed Ph.D. qualifier exam in Spring 2006, defended on March 5, 2012), thesis title "*A Novel MIMO Six Element Vector Antenna for Direction of Arrival Estimation in Radar Systems Applications*".
6. Harun Taha Hayvaci, Aug. 2005-May 2012 (passed Ph.D. qualifier in Spring 2007, passed Ph.D. preliminary on May 6, 2010, defended on March 7, 2012), thesis title "*Electromagnetic and statistical approach to improve radar performance in multipath environments.*"
7. Vittorio Picco, Jan. 2010-June 2014 (passed Ph.D. qualifier in Spring 2011, passed Ph.D. preliminary in Spring 2013, defended on May 19, 2014), thesis title "*Dyadic contrast function and quadratic forward model for radio frequency tomography.*"
8. Rui Yang, Jan. 2015-May 2016 (passed Ph.D. preliminary in Fall 2014, defended March 11, 2016), thesis title "*Theory and application of Goos-Hänchen shift based on guided mode resonance.*"
9. Vahid Foroutan, Aug. 2015-present (passed Ph.D. preliminary in Spring 2016, defended Feb. 28, 2018), thesis title "*Control for Micro-Assembly of Heterogeneous MEMS Microrobots through Common Control Signal.*"
10. Tadahiro Negishi, Aug. 2011- present (passed Ph.D. qualifier in Spring 2012, passed Ph.D. preliminary in Fall 2015, defended on March 8, 2018), thesis title "*Radio Frequency Tomography Based Electromagnetic Inverse Scattering For Reinforced Concrete Structures.*"

In progress

11. Farhad Farzami, Aug. 2014-present (passed Ph.D. qualifier in Spring 2015, passed Ph.D. preliminary examination on June 16, 2017)
12. Omid Manoochehri, Aug. 2015-present (passed Ph.D. qualifier in Spring 2016)
13. Yangqing Liu, Aug. 2015-present
14. Anastasia Rozhkova, Aug. 2017-present

M.S. students advised

1. Marco Valentino, Aug. 2004- Dec. 2005, thesis title "*Elliptic and spheroidal shapes with a cavity, a lens and isorefractive media: EM analysis and evaluation.*" Currently with BNP Paribas.
2. Stefano Canta, Aug. 2005-May 2009 (coursework option, no thesis)
3. Hristo Dekov, Aug. 2005 – July 2010 (defended in Dec. 2009) thesis title "*Analysis of the space-time propagation channel behavior in outdoor-to-indoor environment*".
4. Harun T. Hayvaci, Jan. 2006-Aug. 2010 (coursework option, no thesis).

5. Giuseppe Carluccio, Jan. 2007- May 2011 (coursework option, no thesis).
6. Nathan Roth, Jan. 2007-Aug. 2008 (defended in May 2008), thesis title "*Microstrip Pseudo High-Pass Filters Using Multilayer Defective Ground Electromagnetic Bandgap Structures.*" Currently with Northrop Grumman.
7. Vittorio Picco, Aug. 2007 – July 2010 (defended in Dec. 2009), thesis title "*Compressive Sensing for Radio Frequency Tomography.*"
8. Keith Martin, Aug. 2010-Dec. 2011 (defended on Sept. 30, 2011), thesis title "*An automated antenna .measurement system utilizing Wi-Fi hardware.* " Currently with Verizon
9. Alessandro Valentino Matheoud, Aug. 2011-Dec. 2012, (defended on Dec. 10, 2012) thesis title "*UHF Radio Frequency Modules for Satellite Ground Communications.* "
10. Switt Kittivittayakul, Aug. 2013-Fall 2015 (no thesis option)
11. Mario Lauritano, Aug. 2014-Spring 2016 (defended on Dec. 9, 2015), "*Underground propagation models and antennas for radiofrequency tomography.*" Currently with Intel.
12. Patrick Martin, Jan. 2016-present
13. Manas Nyati, Aug. 2016-present

Visiting Scholars

1. Shingo Nishikata, Aug. 2011- Aug. 2012

Post-Doctoral Fellows

1. Dr. Ahmad Suhail Salim (jointly with Prof. Daniela Tuninetti and Prof. Natasha Devroye), Aug. 2016-present

Member of the Ph.D. Thesis Defense Committee of:

1. Qiwu Tan (Advisor Piergiorgio L.E. Uslenghi), thesis title "*Radiation from bodies of revolution with anisotropic surface impedance,*" Mar. 2004
2. Davide Negri (advisor Prof. Piergiorgio L.E. Uslenghi), thesis title "*Aperture excitation of a transmission line in a nested cavity system,*" May 2004
3. Ying Xu (advisor Prof. Piergiorgio L.E. Uslenghi), thesis title "*Fresnel-Kirchhoff integral for path loss prediction in outdoor urban environments,*" June 2004
4. John C. Pincenti (advisor Prof. Piergiorgio L.E. Uslenghi), Oct. 2004, thesis title "*Incident field excitation of random transmission lines*".
5. Dimitri Alexson, Aug. 2001-July 2006 (advisor Prof. Mitra Dutta), "*Device Implications of Phonons in III-V Nitride Bulk and Dimensionally Confined Semiconductors*".
6. Ntsanderh Christian Azenui (advisor Prof. Hung-Yu David Yang), Apr. 23, 2007, thesis title "*Miniaturized printed circuit antennas for multi- and ultra-wideband applications*".
7. Chengzi Zhou, Aug. 2003-Dec. 2007 (defended Sept. 4, 2007, advisor Prof. Hung-Yu David Yang), thesis title "*RF passives and antennas on 3D metallized substrates*".
8. Jiang Liang (advisor Prof. Hung-Yu David Yang), Feb. 29, 2008, thesis title "*Frequency reconfigurability analysis of electrically small antennas* "
9. Konrad Jacek Kaczmarski (advisor Prof. Sharad Laxpati), 2008, thesis title "*An exact inverse source reconstruction*"
10. Chong Chen, Aug. 2005-July 2010 (advisor Prof. Dan Schonfeld), thesis title "*Multi-camera vision systems: pose estimation and plenoptic imaging*".
11. Yanyan Zhang, Aug. 2005-July 2010 (defended in Oct. 2009, advisor Prof. Hung-Yu David Yang), thesis title "*The design and analysis of planar electrically small antennas*".
12. Konrad Jacek Kaczmarski (advisor Prof. Sharad Laxpati), 2008, thesis title "*An exact inverse source reconstruction*"
13. Haijiang Ma (advisor Prof. Hung-Yu David Yang), Feb. 2012, thesis title "*Novel RF slow-wave coupled-line circuits and antennas for compact wireless systems* "

14. Kasun Anupama Gardiye Punchihewa (advisor Vitali Metlushko), May 9 2012, thesis title "*Nano Fabricated 3D Extracellular Matrix (ECM) Scaffolds to alter the Cancer Cell Behavior*"
15. Arindam Das (advisor Prof. C. Megaridis), July 17, 2013, thesis title "*Functional Polymer Nanocomposites and Nanohybrids: Synthesis, Characterization and Application*".
16. Nanzhu Zhang (advisor Prof. Michael Stroscio), March 5, 2014, thesis title "Interface Phonon Modes of Heterostructures and Quantum Dots/ Polymer Composite System"
17. Linh Ho Man (advisor Prof. Riccardo Zich, Politecnico di Milano, Milan, Italy), Dec. 7, 2014, thesis title "Computational Intelligence for electromagnetic components"
18. Arash Rahnamaee (advisor S. Mazumder), Jan. 16, 2015, thesis title "Soft-Switched Hybrid-Modulation Scheme for an Isolated DC-Link-Capacitor-Less Three-Phase Pulsating-DC-Link Inverter"
19. Hossein Riazmontazer (advisor: Sudip Mazumder), Sept. 16, 2015, thesis title "Switching Transition Control of Insulated-Gate Power Semiconductor Devices'
20. John T. Hogan (advisor: Andreas Schroeder), Oct. 14, 2016, thesis title "Application of Radio Frequency Resonant Cavities in ultra fast electron microscopy"

Member of the Ph.D. Preliminary Thesis Defense Committee of:

1. Qiwu Tan (advisor Piergiorgio L.E. Uslenghi), Nov. 2002
2. Davide Negri (advisor Piergiorgio L.E. Uslenghi), Nov. 2002
3. Ying Xu (advisor Piergiorgio L.E. Uslenghi), May 2003
4. John C. Pincenti (advisor Piergiorgio L.E. Uslenghi), Nov. 2003
5. Dimitri Alexson (advisor M. Dutta), May 2004
6. Chengzi Zhou (advisor H.-Y. David Yang), May 2006
7. Ntsanderh Christian Azenui (advisor H.-Y. David Yang), May 2006
8. Konrad Jacek Kaczmarski (advisor S. Laxpati), July 2007
9. Ming Liao (advisor Oliver Yu), June 16, 2008
10. Jing Liang (advisor H-.Y. David Yang), Nov. 2, 2008
11. Yanyan Zhang (advisor H.-Y. David Yang), Dec. 5, 2008
12. Chong Chen (advisor Dan Schonfeld), Apr. 2009
13. Haijiang Ma (advisor H.-Y. David Yang), Apr. 2010
14. Arindam Das (advisor C. Megaridis), Dec. 2010
15. Nanzhu Zhang (advisor M. Stroscio), March 20, 2013
16. Arash Rahnamaee (advisor S. Mazumder), July 2013
17. Shripriya Poduri (advisor Mitra Dutta), October 15, 2013
18. John Hogan (advisor Andreas Schroeder, Physics), October 22, 2013
19. Shanshan Zhao (advisor: H.-Y. Yang), November 11, 2013
20. Hossein Riazmontazer (advisor: Sudip Mazumder), June 11, 2014
21. Rui Yang (advisor Prof. Jingjing Li), Friday Jan. 9, 2015
22. Monica Cook, June 5, 2015
23. Konstantin Muranov (advisor: Besma Smida), April 17, 2017
24. Alireza Mojab (Advisor: Sudip Mazumder), April 24, 2017
25. Marco D. Poort (Advisor: P.L.E. Uslenghi), Nov. 6, 2017
26. Ankit Gupta (Advisor: Sudip K. Mazumder), March 1, 2018

Member of the Master Thesis Defense Committee of:

1. Umberto G. Crovella, M.S. EE, Jan. 2001, thesis title "*Analysis of measurements on urban models in anechoic chamber and comparisons with propagation predictions*".
2. Giuseppe D'Elia, M.S. EE, Jan. 2001, thesis title "*Path loss measurements on scaled models and comparison with propagation predictions in urban environments*".
3. Fabio Salvucci, M.S. EE, Dec. 2001, thesis title "*Automatic hardware generation of long deterministic bit*

sequences".

4. Federico G.D. Rota, M.S. EE, Dec. 2002, thesis title "*Control flow checking using main memory bus monitoring in an internal cache environment*".
5. Franco Trovò, M.S. EE, Dec. 2002, thesis title "*Concurrent control flow checking with micro rollback in a CISC processor*".
6. Jianglin Yu, M.S. E.E., 2002, thesis title "*A MAC protocol with adaptive packets allocation algorithm in TD-CDMA system*"
7. Subashree Thirumoorthy, M.S. CE, July 2003, thesis title "*Adaptation of TCP over differentiated services network*".
8. Aarti Sridharan, M.S. CE, July 2003, thesis title "*Adaptation of MPEG-2 video transmission over differentiated services network*"
9. Cristian Berardi, M.S. EE, Oct. 2003, thesis title "*Evaluation of analytical formulas for an aperture in a cavity filled with isorefractive material*".
10. Andrea Cavallero, M.S. EE, Dec. 2003, thesis title "*Optimization and self-reconfigurability of compact antennas*".
11. Francesco Andriulli, M.S. E.E, Dec. 2003, thesis title "*Multi-resolution formulation of the integral equation analysis of antenna problems*".
12. Todd M. Larsen, M.S. E.E. July 2004, thesis title "*Low-frequency behavior of a slotted semielliptical channel*".
13. Emir Saric, M.S. C.E. July 2004, thesis title "*Adjusted multimode dynamic guard bandwidth control for prioritized admission over CDMA-based networks*".
14. Bobymol Thomas Thottunkal, M.S. C.E. Aug. 2004, thesis title "*Multicast and multi-domain routing and wavelength assignment algorithms for all-optical networks*".
15. Paolo Pellegrino, M.S. E.E., Dec. 2004, thesis title "*An external watchdog for processor micro-architecture: control flow checking of instruction processing*".
16. Daniela Donno, M.S. E.E., Apr. 2005, thesis title "*Estimation of seismic wave velocity/polarization and interference suppression using beamforming*".
17. Antonio Valitutti, M.S.E.E, Jan. 2004-July 2005, thesis title "*Multi-level pattern representation for the synthesis of multi-beam coverage antennas*".
18. Luca Valitutti, M.S. E.E., Jan. 2004-July 2005, thesis title "*Radio-frequency heating in plasma thrusters*".
19. Orso Meneghini , M.S .E.E., thesis title "*Computational electromagnetics for design-oriented analysis of plasma facing antennas,*" May 2006
20. Timothy Stoia, M.S.E.E., thesis title "*Electromagnetic scattering by penetrable spheres,*" Oct. 2007
21. Salvatore Campione, M.S.E.E, thesis title "*Advanced numerical techniques for low-frequency problems,*" May 2009
22. Michele Tamagnone, M.S.E.E, thesis title "*An application specific set processor for signal detection in multiple antenna systems,*" May 2010
23. Davide Blua, M.S.E.E, May 2011, thesis title "*Magnetic QCA: from Architecture to Physical Design*".
24. Vamsee Chekka, M.S.E.E., thesis title "*Slow-Wave Transmission Line Transformers/Baluns,*" May 2012
25. Shyam Prabu Arokiaswamy (advisor: Jingjin Li), M.S. E.E., August 30, 2013
26. Mathias Mengoni (advisor: Vitali Metlushko), M.S.E.E., thesis title "*A Novel Approach To Accommodative Human Intra-ocular Lenses,*" May 8, 2014
27. Federico Mazza (advisor: Vitali Metlushko), M.S.E.E., thesis title "*Implantable Human Lenses with Adjustable Focal Distance as a Solution for Cataract Treatment,* " May 8, 2014
28. Baker Basil Al-Bahri (advisor: Piergiorgio L. E. Uslenghi), M.S. E.E., thesis title "*Scattering by metallic semi-circular and quarter-circular cylinders located inside corner reflectors,*" March 4, 2016.

Undergraduate Advising and Supervision

Undergraduate research advisor of the following students:

1. Sharmin Rahman(*), Fall 2004
2. Piyush Joshi, Spring 2006
3. Ted Kornas, Spring 2006
4. Rional J. Llazari, Spring 2006
5. David J. Migas, Fall 2006
6. Latoya L. Bailey(*), Spring 2007
7. Rosemarie J. Czech(*), Spring 2007
8. Ignacio Ramos, Fall 2008
9. Ramon Acosta, Spring 2009
10. Adrian Araujo, Spring 2010
11. Krister Hatch, Spring 2010
12. Idris Borokini, Fall 2011
13. Marcus R. Stephens, Fall 2011 (Chancellor's Undergraduate Research Award)
14. Artur A Kawalec, Spring 2012 (Chancellor's Undergraduate Research Award)
15. Johnathan D. Maurer, Spring 2012 (Chancellor's Undergraduate Research Award)
16. Chau Nguyen, Spring 2012 (Chancellor's Undergraduate Research Award)
17. Douglas Spitzer, Fall 2012-Spring 2014 (Chancellor's Undergraduate Research Award)
18. Lavkumar B. Patel, Fall 2012-Spring 2014 (Chancellor's Undergraduate Research Award)
19. David Labak, Spring 2013-Fall 2014 (Chancellor's Undergraduate Research Award). Note, during Spring 2014 he was a member of the Honors College.
20. Ujvalkumar M. Patel, Spring 2013 (Chancellor's Undergraduate Research Award)
21. Aldo Flores-Rico, Spring 2013
22. Qaiser Khalid, Spring 2013
23. Aijaz H. Syed, Fall 2013-Spring 2014 (Chancellor's Undergraduate Research Award)
24. Michael Bazzoli, Summer 2014
25. Collin Brady, Spring 2015
26. Paula Debkowska(*), Spring 2015
27. Faiza Ishaq(*), Spring 2015
28. Ankitkumar V. Patel, Spring 2015
29. Vitor Luiz Orlandini Klein, Summer 2015 (Brazilian Exchange Program)
30. Natalia Ferreira de Lima(*), Summer 2015 (Brazilian Exchange Program)
31. Mohammed Eljali, Fall 2015
32. Roderick L. Santa Maria, Fall 2015
33. Nikolay Stepin, Spring 2016
34. Eduardo Tavares Silverio, Summer 2016 (Brazilian Exchange Program)
35. Luis Ramirez, Summer 2016
36. Farzin Rezvani, Fall 2017
37. Raul Soto, Fall 2017
38. Cary Pope, Fall 2017, Spring 2018 (Chancellor's Undergraduate Research Award)

Senior Design I and II (ECE 396, ECE 397)

Project title: *Internet Wireless Lock System* (Fall 2003, Spring 2004)

1. Milan Dave
2. Kaushik Patel
3. Chirag Shah

Project title: *i-DatE – Wireless Pocket Matchmaker* (Spring 2004, Fall 2004)

4. Syreeta Caldwell

5. Isaac Chepkwony
6. Tiffany Rice

Project title: *Wireless Keyless Lock System* (Spring 2005, Fall 2005)

7. Luis Alvarez
8. Sergey Gantman
9. Bianca Garza

Project title: *I-Troller* (Fall 2005, Spring 2006)

10. Jeffrey N. Groetsma
11. Ted Kornas
12. Alexander B. Tamayo

Project Title: *Security System for Cabs* (Fall 2005, Spring 2006)

13. Rional J. Llazari
14. Sandy Y. Tan
15. Mehari G. Tesfamicael

Project Title: *RFID Based Inventory System* (Fall 2006, Spring 2007)

16. Donald G. Keller
17. Paul A. Kuzich
18. Peter J. Mazarakos
19. Anthony Paul

Project Title: *PCB Inking Method* (Fall 2007, Spring 2008)

20. Kevin NininPaul
21. Ronnie Selanonta

Project Title: *RFID Medical Record Device* (Fall 2008, Spring 2009)

22. Luis J. Hernandez
23. Gert Najdeni
24. Ignacio Ramos

Project Title: *Fun-E Ball* (Fall 2008, Spring 2009)

Second Place Award at the UIC College of Engineering 20th Anniversary EXPO 2009, 4/21/2009

25. Ramon Acosta
26. Jose Aburto
27. Joaquin Herrera

Project Title: *The user friendly electromagnetic field detector* (Spring 2012, Fall 2012)

28. Sarmad Qutub
29. Muntaser Qutub
30. Mamun Rashid

Project Title: *Lock in Amplifier* (Fall 2013, Spring 2014)

Second Place Award at the UIC College of Engineering EXPO 2014, 4/22/2014

31. Carl Goding
32. Ashvin Ilangovar
33. Moah Jaber
34. Douglas Spitzer

Project Title: *Bluetooth Phone Tracker* (Fall 2014, Spring 2015)

35. Timothy W. Botsford
36. Maciej M. Kijewski
37. Joshua R. Lara
38. Brian W. Wu

Project Title: *Automatic Car Sun Visor v1* (Fall 2014, Spring 2015)

39. Nicholas R. Carroll
40. Oluwafemi O. Ogunsanya
41. Ankitkumar V. Patel

Project Title: *Officer Recording Device: OneLife* (Fall 2016, Spring 2017)

42. Jason Nardoni

43. Farzin Rezvani
44. Raul Soto
45. John White

Project Title: *The STEMinists* (Spring 2017, Fall 2017)

46. Rashad Allen
47. Rafal Czykier
48. Chun Kei Lo

Project Title: *SAP* (Fall 2017, Spring 2018)

49. Ameer Dieb
50. Phil Horwitz

Project Title: (Fall 2017, Spring 2018)

51. Johnny Bui
52. Darshan Patel
53. Dhruv Patel
54. Viral Patel

Project Title: *Antenna Positioning System* (Spring 2018, Fall 2018)

55. Andrei Marotta.
56 Lam Nguyen
57 Fouad Hammouni
58 Jorlian Saboukoulou

Contributions to instructional techniques, software and teaching material

1. Authored the online course ECE 423 *Electromagnetic Compatibility*
2. Developed a laboratory manual for ECE 424 *RF and Microwave Guided Propagation*
3. Developed a laboratory manual for ECE 322 *Introduction to Electromagnetics and Applications*

Courses taught

Graduate Level Courses

1. *Electromagnetic Scattering*, Spring 2000-2004, Spring 2010, Spring 2014, Fall 2015
2. *Electromagnetic Field Theory*, Fall 1999-2003, Spring 2011-2013, Spring 2017, Spring 2018
3. *Advanced Microwave Engineering*, Fall 2016

Undergraduate Technical Electives and Graduate Level Courses

4. *Modern Linear Optics*, Fall 2000-2016
5. *Electromagnetic Compatibility*, Spring 2001-2015, Spring 2017
6. *Quasi Static Electric and Magnetic Fields*, Spring 2015
7. *Introduction to Electromagnetics and Applications, Fall 2017*

Undergraduate Level Courses

5 *Fortran Programming for Engineering*, Summer 2000.
6 *Electromagnetics*, Summer 2002

PROFESSIONAL ACTIVITIES

Editorships

1. Editor in Chief, *IEEE Transaction on Antennas and Propagation*[4], Aug. 2016-present
2. Associate Editor, *Radio Science*, March 2014- July 2016
3. Associate Editor, IEEE Transactions on Antennas and Propagation, Sept. 2013- July 2016
4. Senior Associate Editor for the Antennas and Wireless Propagation Letters, a publication of the Institute of Electrical and Electronics Engineers, Oct. 2001-Dec. 2014.
5. Guest Editor for the Special Issue on "*RF effects on digital systems*," Electromagnetics Journal, Vol. 25(7-8), 2005 and Vol. 26(1), 2006.
6. Lead Guest Editor (co-editors: Dr. Weng Cho Chew, Hong Kong University and University of Illinois at Urbana-Champaign, and Dr. Francesco Soldovieri, Italian National Research Council), Special issue on "Propagation models and inversion approaches for subsurface and through wall imaging," *International Journal of Antennas and Propagation*, 2012.
7. Guest Editor, *Radio Science*, Special Section on the National Radio Science Meeting, 2012.

Offices held in Professional Organizations

- Chair, *IEEE Antennas and Propagation Society Distinguished Lecturer Program*, 1/2015- 7/2016
- Member, *AP-S Committee to Develop a New Journal on Numerical Methods*, 2014-2016
- Member, *Strategic Planning Committee, Administrative Committee of the IEEE Antennas and Propagation Society*, 2013-2014
- Member, *AP-S/MTT-S Intersociety Liaison Committee*, 2013-2014
- IEEE AP-S Representative, *USNC-URSI*, 2018-2020
- Elected Full Member, *USNC-URSI Commission C*, 1/2013-present
- Elected Member, *IEEE Antennas and Propagation Society Administrative Committee*, 2012-2014
- Elected Member at Large of USNC-URSI, 2012-2017
- Chair, IEEE Chicago Chapter of the Antennas and Propagation Society & Microwave Theory and Techniques Society, 2011-2016.
- Chair of the USNC-URSI Student Paper Competition, 9/2008-1/2014
- Elected Chair for the USNC-URSI Commission E, Electromagnetic Environment and Interference, Jan. 2009-Dec. 2011.
- Elected Vice-Chair for the USNC-URSI Commission E, Electromagnetic noise and interference, Jan. 2006-Dec. 2008.
- Elected Secretary of the USNC-URSI– Commission E, Electromagnetic noise and interference, Jan. 2004-Dec. 2005.
- Elected Full Member of the USNC-URSI – Commission E, Electromagnetic noise and interference, Jan. 2004.
- Technical Activities Committee Member for USNC-URSI, Commission B, June 2003-Dec. 2008.
- Elected Full Member of the United States National Committee (USNC) for the International Union of Radio Science (URSI) – Commission B, Fields and Waves, June 2002.

[4] The IEEE Transactions on Antennas and Propagation is the premiere international journal in the field of electromagnetics with focus on antennas and propagation. The Editor-in-Chief is responsible for all activities related to the review process, including nominating and overseeing the activities of the Editorial Board, which is composed by more than 55 people. The total number of submissions exceeds 3,000 manuscripts annually. In 2017, the journal was ranked third out of 358 publications available at IEEE Xplore for the number of downloads.

Chairmanship and Vice Chairmanship of International Symposia

- General Chairman of the *2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Chicago, IL, July 8-14, 2012[5]
- Vice-General Chairman of the *XXIX URSI General Assembly*, Chicago, IL Aug. 7-16, 2008[6]

Organization of International Symposia

- Organizing Committee Member and Steering Committee Member, *International Conference on Electromagnetics in Advanced Applications and IEEE APS Topical Conference on Antennas and Propagation in Wireless Communications*, Verona, Italy, Sept. 11-15, 2017.
- Steering Committee Member, *International Conference on Electromagnetics in Advanced Applications and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications*, Palm Beach, Aruba, Aug. 3-9, 2014
- Steering Committee Member, *2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Chicago, IL, July 8-14, 2012
- Steering Committee Member, *IEEE Antennas and Propagation Society International Symposium*, Spokane, WA, July 3-8, 2011
- Steering Committee Member, *IEEE Antennas and Propagation Society International Symposium*, Honolulu, HI, June 10-15, 2007
- USNC-URSI Member, IEEE *Antennas and Propagation Society* Joint Meetings Committee, Jan. 2006-Dec. 2017.
- Member of the Future Symposia Committee, IEEE Antennas and Propagation Society, July 2005-present.

Organization of Workshops

- Senior Advisory Board Member, *3rd International Workshop on Metamaterials-by-Design*, Madrid, Spain, Dec. 14-15, 2017.
- Co-organizer of the full-day workshop entitled "Advanced Antennas for Satellites, Aircraft and Remote Sensing Applications," at Motorola Mobility, Merchandise Mart, Chicago, IL, September 13, 2014.

Member of the Technical Program Committee that reviews and selects articles submitted for presentations at International Symposia

1. *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Boston, MA, July 8-13, 2018.
2. *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, Verona, Italy, Sept. 11-15, 2017.
3. *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, CA, July 9-14, 2017.
4. *2016 IEEE Antennas and Propagation Society International Symposium and USNC-URSI National Radio Science Meeting*, Fajardo, Puerto Rico, June 26- July 1, 2016.
5. *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, Torino, Italy, Sept. 7-11, 2015.

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[5] Under his leadership, this was the most successful international symposium with attendees coming from 54 countries and more than 1,900 registered attendees, the largest attendance in the history of the IEEE Antennas and Propagation Society.

[6] This 10-day long international symposium attracted more than 1,200 international scholars. URSI General Assemblies take place every three-years and this was the fourth time a General Assembly was hosted in the United States, after Washington D.C. (1927), Boulder, CO (1957) and Washington D.C. (1981).

6. *2015 IEEE Antennas and Propagation Society International Symposium and North American Radio Science Meeting*, Vancouver, British Columbia, Canada, July 19-25, 2015.
7. *9th European Conference on Antennas and Propagation (EuCAP 2015)*, Lisbon, Portugal, 12-17 April 2015.
8. *International Conference on Antenna Measurements & Applications (2014 IEEE CAMA)*, Antibes Juan-Les-Pins, Nov. 16-19, 2014
9. *XXXI URSI General Assembly and Scientific Symposium*, Beijing, China, Aug. 16-23, 2014.
10. *International Conference on Electromagnetics in Advanced Applications and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications*, Palm Beach, Aruba, Aug. 3-9, 2014.
11. *2014 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Memphis, TN, July 6-11, 2014.
12. *International Conference on Electromagnetics in Advanced Applications and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications and Electromagnetic Metrology Symposium*, Torino, Italy, Sept. 9-13, 2013.
13. *2013 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Orlando, FL, July 7-12, 2013.
14. *URSI Commission B International Symposium on Electromagnetic Theory*, Hiroshima, Japan, May 20-24, 2013.
15. *2012 IEEE International Conference on Wireless Information Technology and Systems*, Maui, HI, Nov. 11-16, 2012
16. *International Conference on Electromagnetics in Advanced Applications*, Cape Town, South Africa, Sept. 2-7, 2012.
17. *2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Chicago, IL, July 8-14, 2012
18. *International Conference on Electromagnetics in Advanced Applications*, Torino, Italy, Sept. 12-17, 2011.
19. *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Spokane, Washington, USA July 3-8, 2011
20. *USNC/URSI National Radio Science Meeting*, Boulder, CO, Jan. 5-8, 2011
21. *IASTED International Conference on Antennas, Radar and Wave Propagation (ARP 2010)*, Cambridge, MA, USA Nov. 1-3, 2010
22. *IEEE International Conference on Wireless Information Technology and Systems (ICWIT)*, Honolulu, HI, USA, Aug. 28-Sept. 3 2010
23. *IEEE Antennas and Propagation Society International Symposium/CNC/USNC-URSI National Radio Science Meeting*, Toronto, Ontario, Canada, July 11-17, 2010
24. *2010 Sarnoff Symposium (33rd Sarnoff)*, Princeton, NJ, USA, Apr. 12-14, 2010
25. *USNC/URSI National Radio Science Meeting*, Boulder, CO, Jan. 6-9, 2010
26. *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, Turin, Italy, Sept. 14-18, 2009
27. *The Sixth IASTED International Conference on Antennas, Radar and Wave Propagation, ARP 2009*, July 6-8, 2009 Banff, Alberta, Canada
28. *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Charleston, South Carolina, USA, June 1-5, 2009
29. *IEEE ICC'09 Wireless Networking Symposium*, Dresden, Germany, June 14-18, 2009
30. *USNC/URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2009
31. *XXIX URSI General Assembly*, Chicago, IL Aug. 7-16, 2008.
32. *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, CA, July 5-12, 2008
33. *2008 IEEE Radar Conference*, Rome, Italy, May 26-30, 2008
34. *International Association of Science and Technology for Development (IASTED) International Conference on Antennas Wave and Radio Propagation*, Baltimore, MD, USA, Apr. 16-18, 2008
35. *IEEE Consumer Communications and Networking Conference*, Las Vegas, NV, USA, Jan. 10-12, 2008

36. *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, Turin, Italy, Sept. 17-21, 2007
37. *IEEE Antennas and Propagation Society International Symposium*, Honolulu, HI, June 10-15, 2007
38. *IASTED International Conference on Antennas Wave and Radio Propagation*, Montreal, Quebec, Canada, May 30-June 1, 2007
39. *IASTED International Conference on Antennas Wave and Radio Propagation*, Banff, Alberta, Canada, July 3-4, 2006
40. *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting/AMEREM*, Albuquerque, NM, July 9-14, 2006.
41. *USNC/URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2006
42. *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, Turin, Italy, Sept. 12-16, 2005
43. *IASTED International Conference on Antennas Wave and Radio Propagation, Banff*, Alberta, Canada, July 19-21, 2005
44. *IEEE Antennas and Propagation Society International Symposium*, Washington, D.C., July 3-8, 2005
45. *IEEE Vehicular Technology Conference*, Dallas, TX, Sept. 25-29, 2005
46. *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Monterey, CA, June 20-26, 2004

International Conference Session Organizer and Chairmanships

1. Co-organizer and co-chairman of the special session entitled "Emerging Approaches and Future Trends in Electromagnetic Inverse Problems," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Boston, MA, July 8-13, 2018.
2. Co-organizer and co-chairman of the special session entitled "Recent advances in electromagnetics for MRI" (with Dr. Giuseppe Carluccio and Prof. Riccardo Lattanzi), *International Conference on Electromagnetics in Advanced Applications*, Verona, Italy, Sept. 11-15, 2017.
3. Co-organizer and co-chairman of the special session entitled "Concealed object detection: belowground imaging, through-wall surveillance and contraband detection" (with Dr. Michael C. Wicks), *International Conference on Electromagnetics in Advanced Applications*, Verona, Italy, Sept. 11-15, 2017.
4. Co-organizer and co-chairman of the special session entitled "Theoretical, Methodological, and Technological Advances in Electromagnetic Inverse Scattering" (with Prof. Giacomo Oliveri and Prof. Christian Pichot), *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, CA, July 9-14, 2017.
5. Co-chairman (with Prof. Piergiorgio L.E. Uslenghi) of the session entitled "Scattering," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 6-9, 2016.
6. Co-chairman of the session entitled "Antenna Design and SAR Reduction," *IEEE Antennas and Propagation Society International Symposium and North American Radio Science Meeting*, Vancouver, British Columbia, Canada, July 19-25, 2015.
7. Co-chairman of the session entitled "Imaging and Localization," *IEEE Antennas and Propagation Society International Symposium and North American Radio Science Meeting*, Vancouver, British Columbia, Canada, July 19-25, 2015.
8. Co-chairman of the session entitled "Propagation and scattering in complex structures and random media," *IEEE Antennas and Propagation Society International Symposium and North American Radio Science Meeting*, Vancouver, British Columbia, Canada, July 19-25, 2015.
9. Chairman of the plenary session entitled "Electromagnetic Sensing and Imaging for Medical Applications" at the *International Conference on Antenna Measurements & Applications (2014 IEEE CAMA)*, Antibes Juan-Les-Pins, Nov. 16-19, 2014
10. Co-organizer (with Prof. Lorenzo Capineri) of the special session entitled "Electromagnetic Modeling and Applications for Underground Imaging" at the *XXXI URSI General Assembly and Scientific Symposium*, Beijing, China, Aug. 16-23, 2014.
11. Co-organizer (with Prof. Hugh Griffiths, University College London, England; Prof. Long Teng, Beijing Institute of Technology, Beijing, China; Prof. Michael C. Wicks, University of Dayton) and co-chairman (with Prof. Michael C. Wicks, University of Dayton) of the special session entitled "Spectrum sharing in radar and communications systems: an electromagnetics and signal processing based approach" at the *International Conference on Electromagnetics in Advanced Applications and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications*, Palm Beach, Aruba, Aug. 3-9, 2014.
12. Co-organizer and co-chairman (with Prof. Magdy Iskander) of the special session entitled "Propagation modeling for communications and directional aware networking" at the *International Conference on Electromagnetics in Advanced Applications and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications*, Palm Beach, Aruba, Aug. 3-9, 2014.
13. Chairman of the session entitled "Electromagnetic Interaction and Coupling" at the *2014 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Memphis, TN, July 6-11, 2014.
14. Chairman of the session entitled "High Frequency and Asymptotic Methods I" *at the 2014 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Memphis, TN, July 6-11, 2014.
15. Chairman, Student Paper Competition Plenary Session, *National Radio Science Meeting*, Boulder, CO, Jan. 8-11, 2014.
16. Chairman (with Dr. Majid Manteghi) of the session entitled "Wireless Power Transfer and Energy

Harvesting Systems," at the *National Radio Science Meeting*, Boulder, CO, Jan. 8-11, 2014.

17. Chairman (with Prof. Piergiorgio L.E. Uslenghi) of the session entitled "Scattering and Inverse Scattering," at the *National Radio Science Meeting*, Boulder, CO, Jan. 8-11, 2014.
18. Co-organizer (with Dr. Timothy Clarke, Air Force Research Laboratory) and co-chairman (with. Dr. G. Gradoni) of the special session entitled "Effects of EM pulses on electronic systems" at the *International Conference on Electromagnetics in Advanced Applications and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications and Electromagnetic Metrology Symposium*, Torino, Italy, Sept. 9-13, 2013.
19. Chairman of the session entitled "Wireless Power Transmission and Electromagnetic Interference" at the *2013 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, Orlando, FL, July 7-12, 2013.
20. Co-chairman (with Prof. Toru Sato, University of Kyoto, Japan) of the special session entitled "Electromagnetic sensing for underground applications 2" at the *URSI Commission B International Symposium on Electromagnetic Theory*, Hiroshima, Japan, May 20-24, 2013.
21. Co-chairman (with Prof. Masahiko Nishimoto) of the special session entitled "Electromagnetic sensing for underground applications" at the *URSI Commission B International Symposium on Electromagnetic Theory*, Hiroshima, Japan, May 20-24, 2013.
22. Organizer of the special session entitled "Electromagnetic sensing for underground applications" at the *URSI Commission B International Symposium on Electromagnetic Theory*, Hiroshima, Japan, May 20-24, 2013.
23. Chairman, Student Paper Competition Plenary Session, *National Radio Science Meeting*, Boulder, CO, Jan. 9-12, 2013
24. Co-chairman (with Prof. Kamal Sarabandi, University of Michigan) of the session entitled "Inverse Scattering," *National Radio Science Meeting*, Boulder, CO, Jan. 9-12, 2013
25. Co-organizer (with. Dr. Timothy Clarke, Air Force Research Laboratory) of the special session entitled "Effects of EM pulses on digital systems" at the *International Conference on Electromagnetics in Advanced Applications*, Cape Town, South Africa, Sept. 2-7, 2012.
26. Chairman, Student Paper Competition Plenary Session, *National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2012
27. Co-chairman (with Dr. K. Kagoshima) of the session entitled "Cognitive radio and wireless networks" at the *International Conference on Electromagnetics in Advanced Applications*, Torino, Italy, Sept. 12-17, 2011.
28. Co-organizer (with Dr. Jon A. Sjogren, Air Force Office of Scientific Research) and chairman of the special session entitled "Combining electromagnetic propagation models with sensing and geolocation" at the *International Conference on Electromagnetics in Advanced Applications*, Torino, Italy, Sept. 12-17, 2011.
29. Co-organizer (with Mr. Jason T. Parker, Air Force Research Laboratory, and Dr. Michael C. Wicks Air Force Research Laboratory) and chairman of the special session entitled "Electromagnetism and Signal Processing for Distributed Radar Sensing" at the *International Conference on Electromagnetics in Advanced Applications*, Torino, Italy, Sept. 12-17, 2011.
30. Co-chairman (with Prof. Giuseppe Vecchi, Politecnico di Torino) of the session entitled "Imaging, Inverse Scattering, and Remote Sensing II" at the *IEEE Antennas and Propagation Society International Symposium/ USNC-URSI National Radio Science Meeting*, Spokane, WA, July 3-8, 2011.
31. Co-chairman (with Christopher Holloway, National Institute of Standards and Technology) of the session entitled "Electromagnetic Compatibility and Measurements" at the *IEEE Antennas and Propagation Society International Symposium/ USNC-URSI National Radio Science Meeting*, Spokane, WA, July 3-8, 2011.
32. Chairman, Student Paper Competition Plenary Session, *National Radio Science Meeting*, Boulder, CO, Jan. 5-8, 2011.
33. Co-organizer (with Dr. Lee K. Patton, Air Force Research Laboratory, and Dr. Michael C. Wicks, Air Force Research Laboratory) of the special session entitled "Electromagnetism and Signal Processing for Advanced Radar Application" at the *International Conference on Electromagnetics in Advanced*

Applications, Sydney, Australia, Sept. 20-24, 2010.

34. Co-organizer and co-chairman (with Dr. M.A. Saville, Air Force Institute of Technology) of the special session entitled "Electromagnetic subsurface/underground sensing" at the *URSI Commission B Electromagnetic Theory Symposium* in Berlin, Germany, Aug. 16-19, 2010.
35. Co-organizer and co-chairman (with Dr. Seng Hong, Air Force Research Laboratory) of the URSI E special session entitled "Research directions for future radar systems" at the *IEEE Antennas and Propagation Society International Symposium/CNC/USNC-URSI National Radio Science Meeting*, Toronto, Ontario, Canada, July 11-17, 2010.
36. Co-organizer and co-chairman (with Dr. Gregory B. Tait, Naval Surface Warfare Center) of the URSI E session entitled "EMI modeling, interference and coupling" at the *IEEE Antennas and Propagation Society International Symposium/CNC/USNC-URSI National Radio Science Meeting*, Toronto, Ontario, Canada, July 11-17, 2010.
37. Chairman, Student Paper Competition Plenary Session, *National Radio Science Meeting*, Boulder, CO, Jan. 6-9, 2010.
38. Co-organizer and co-chairman (with Dr. W. Devereux Palmer, Army Research Office) of the plenary session entitled "Anthropogenic and Natural Electromagnetic Environments: Effects on Electronic Systems" at the *USNC/URSI National Radio Science Meeting, Boulder, CO*, Jan. 6-9, 2010.
39. Co-chairman (with Dr. Ira Kohlberg) of the session entitled "EM Interference: Effects and Cyber Threats" at the *USNC/URSI National Radio Science Meeting*, Boulder, CO, Jan. 6-9, 2010.
40. Co-chairman (with Dr. Carl E. Baum, University of New Mexico) of the URSI E session entitled "High-Power Electromagnetics: Environments and Sources" at the *USNC/URSI National Radio Science Meeting*, Boulder, CO, Jan. 6-9, 2010.
41. Co-organizer and co-chairman (with Dr. Jon A. Sjogren, Air Force Office of Scientific Research, and Dr. Michael C. Wicks, Air Force Research Laboratory) of the special session entitled "Combining geometric propagation models with adaptive waveform technology: a perspective for emerging communications, radar and navigation paradigms" at the *International Conference on Electromagnetics in Advanced Applications*, Torino, Italy, Sept. 14-18, 2009.
42. Co-chairman (with Dr. W. Devereux Palmer, Army Research Office) of the session "Radar Systems and Signal Processing," at the *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Charleston, SC, June 1-5, 2009.
43. Co-chairman (with Prof. C. Christodoulou, University of New Mexico) of the URSI E session "Electromagnetic Environments and Interference: High-Power, Transients, and Spectrum Management," at the *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Charleston, SC, June 1-5, 2009.
44. Chairman, Student Paper Competition Plenary Session, *National Radio Science Meeting*, Boulder, CO, Jan. 5-8, 2009.
45. Co-organizer and co-chairman (with Prof. Michael A. Jensen, Brigham Young University, Dr. Michael C. Wicks, Air Force Research Laboratory, and Prof. Marco D. Migliore, Università di Cassino) of the special session "Waveform Diversity for Complex Environments: Antennas, Methods, and Measurements" at the *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, Ca, July 5-12 2008.
46. Co-chairman (with Dr. Vaughn Cable) of the session "Wireless Communications" at the *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, CA, July 5-12, 2008.
47. Co-chairman (with Prof. Mahta Moghaddam, University of Michigan) of the session "Remote Sensing Instrumentation and Techniques" at the *IEEE Antennas and Propagation Society/USNC-URSI Intl. Symposium*, San Diego, CA, July 5-12, 2008.
48. Chairman of the session "Scattering and diffraction" at the *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 3-6, 2008.
49. Co-organizer and co-chairman (with Dr. Michael C. Wicks, Air Force Research Laboratory) of the special session "Adaptive waveform technology for futuristic communications, radar and navigation systems" at the *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, Turin, Italy, Sept.

17-21, 2007.

50. Co-organizer and co-chairman (with Prof. Magdy F. Iskander, University of Hawaii) of the special session "Wireless communications: Antennas, Propagation, and Components Technologies," at the *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, Turin, Italy, Sept. 17-21, 2007.
51. Co-chairman (with Prof. Edward J. Rothwell, Michigan State University) of the session "Antenna Analysis, Optimization and Design," at the *URSI North American Radio Science meeting*, Ottawa, CA, July 22-26, 2007.
52. Co-chairman (with Prof. Edward Jull, University of British Columbia) of the session "Scattering and Diffraction" at the *URSI North American Radio Science meeting*, Ottawa, CA, July 22-26, 2007.
53. Co-chairman (with Prof. Robert MacPhie, University of Waterloo) of the session "Array design and optimization" at the *URSI North American Radio Science meeting*, Ottawa, CA, July 22-26, 2007.
54. Organizer and co-chair (with Dr. Fred Tesche) of the special session "Penetration of EM radiation and coupling into cavities including effects on digital electronics," at the *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2006.
55. Co-organizer (with Prof. Magdy Iskander, University of Hawaii) and co-chairman of the special session on "Wireless communications: antennas, propagation, and components technologies" at the *International Conference on Electromagnetics in Advanced Applications*, Turin, Italy, Sept. 8-12, 2005.
56. Co-chairman (with Prof. Jean-Marie Gorce) of the session "Wave Propagation II" at the *IASTED International Conference on Antennas Wave and Radio Propagation*, Banff, Alberta, Canada, July 19-21, 2005.
57. Co-chairman (with Prof. Chalmers M. Butler, Clemson University) of the Session "Focused Computational Techniques," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Washington, D.C., July 3-8 2005.
58. Co-chairman (with Dr. Michael Lockard, MIT Lincoln Laboratory) of the Session "Signal Penetration Into, and Coupling Within, General Enclosures - EMC, EMI, RFI," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, D.C., July 3-8 2005.
59. Co-chairman (with Dr. Peter Simon) of the Poster Session "Wireless LAN and Mobile Antennas II," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Washington, D.C., July 3-8 2005.
60. Co-organizer and co-chairman (with Prof. Chalmers M. Butler, Clemson University, and Dr. Frederick M. Tesche) of the joint APS/URSI B/ URSI E special session on "Signal penetration into, and coupling within, general enclosures - EMC, EMI, RFI" at the *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Washington D.C., July 3-8 2005.
61. Co-chairman of the URSI Commission E Sessions on "High-power Electromagnetics" for the *USNC/URSI National Radio Science Meeting*, Boulder, CO, Jan. 5-8, 2005.
62. Co-organizer and co-chairman (with Michael D. Lockard and Dr. Robert Gardner) of the joint special session "EMI/EMC Modeling/Validation" at the *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Monterey, CA, June 20-26, 2004.
63. Co-chairman (with Dr. Jurgen Kunisch) of the session "Wireless Communications" at the *International Conference on Electromagnetics in Advanced Applications*, Turin, Italy, Sept. 8-12, 2003
64. Co-chairman of the session on "*Ray Methods for Urban and Indoor Propagation Modeling*" at the *IEEE Antennas and Propagation International Symposium and USNC/URSI Meeting in San Antonio*, TX, June 16-21, 2002.
65. Co-chairman of the session on "*Wireless Communications*" at the International Conference on Electromagnetics in Advanced Applications in Turin, Italy, Sept. 10-14, 2001.
66. Chairman of the session "High-Frequency Techniques" at the *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Salt Lake City, UT, July 16-21, 2000.
67. Co-chairman of the special session on "*Selected Topics in Electromagnetic Theory*," at the *IEEE Antennas and Propagation Society International Symposium and USNC-URSI National Radio Science Meeting* in Orlando, FL, July 11-16, 1999.

Technical Reviewer of Scientific Manuscripts

1. Acta Acustica
2. American Chemical Society
3. Central European Journal of Physics
4. Chinese Journal of Aeronautics
5. Electromagnetics Journal
6. EURASIP Journal on Wireless Communications and Networking
7. Journal of Applied Physics
8. Journal of Electromagnetic Waves and Applications
9. International Journal of Electronics
10. IEEE Antennas and Wireless Propagation Letters
11. IEEE Antennas and Propagation Magazine
12. IEEE Geoscience and Remote Sensing Letters
13. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
14. IEEE Journal of Selected Topics in Signal Processing
15. IEEE Microwave and Wireless Components Letters
16. IEEE Transactions on Aerospace and Electronic Systems
17. IEEE Transactions on Antennas and Propagation
18. IEEE Transactions on Electromagnetic Compatibility
19. IEEE Transactions on Geoscience and Remote Sensing
20. IEEE Transactions on Microwave Theory and Techniques
21. IEEE Transactions on Signal Processing
22. IEEE Transactions on Vehicular Technology
23. IEEE Transactions on Wireless Communications
24. IET Microwaves, Antennas & Propagation
25. IET Radar, Sonar & Navigation
26. International Journal of Applied Electromagnetics and Mechanics
27. Physical Communications
28. Progress in Electromagnetic Research
29. Radio Science
30. Sensors Journal
31. SIAM Journal on Imaging Science

Book Reviewer

- CRC Press
- IET
- John Wiley & Sons
- Pearson

Grant Reviewer

- Air Force Office of Scientific Research
- Department of Energy
- National Science Foundation
- UIC Vice-Chancellor's of Research Areas of Excellence Program

Reviewer (other)

- Italian Scientists and Scholars of North America Foundation

- Italian Research and University Evaluation Agency to the evaluate the Italian research system for the period 2004-2010
- McArthur Foundation

Professional Memberships

- AAAS, 2017-present
- USNC-URSI Commission C, 2013-present
- USNC-URSI Commission E, 2004-present
- IEEE, Student Member 1997-1998, Member 1999-2002, Senior Member 2003-2015, Fellow 2016-present
- USNC-URSI Commission B, 2002-present
- Eta Kappa Nu, 2004-present

Seminars Presented

- Danilo Erricolo, "Benchmarking computational electromagnetics with exact analytical solutions of canonical electromagnetic scattering problems," invited talk at the University of Trento, Italy, Sept. 11, 2017.
- Danilo Erricolo, "RF Tomography," invited talk at the University of Roma III, Italy, Oct. 7, 2014
- Danilo Erricolo, "RF tomography, MRI, EMC, and High Frequency methods," invited talk at the University of Trento, Italy, Sept. 11, 2013.
- Danilo Erricolo, "Meeting with ECE students: presentation about my research activities," May 1, 2013.
- Danilo Erricolo, "Novel remote detection of nuclear radiation through mm-wave radar system response and gamma-ray nanowire sensors," invited talk at the workshop on "Advanced RF, Microwave and MMW Technology for Nuclear, Chemical and Biological Detection Systems" at the *International Microwave Symposium*, Montreal, Canada, June 17-22, 2012
- Danilo Erricolo, "RF tomography and its application to underground imaging," invited talk at Carnegie Mellon University, Feb. 2, 2012
- Danilo Erricolo, "RF Tomography for underground imaging," invited talk at the University of Illinois at Urbana-Champaign, Oct. 11, 2011
- Danilo Erricolo, "RF Tomography for underground imaging," invited talk at Politecnico di Milano, Dipartimento di Elettronica e Informazione, Milan, Italy, June 17, 2010
- Danilo Erricolo, "Compressive Sensing for Radio Frequency Tomography," invited talk at Politecnico di Milano, Dipartimento di Matematica, Milan, Italy, June 16, 2010
- Danilo Erricolo, "Propagation prediction models in wireless communications," invited talk at University of Illinois at Urbana-Champaign, Champaign, IL, USA, Mar. 2, 2004.

OTHER

- Service as judge and mentor for the Senior Design Project of North Lawndale College Prep, Chicago, IL (Spring 2013 – present).

PUBLICATIONS

Special Issues Edited

1. Guest Editor, *Radio Science*, Special Section on the National Radio Science Meeting, 2012
2. Lead Guest Editor (co-editors: Dr. Weng Cho Chew, Hong Kong University and University of Illinois at Urbana-Champaign, and Dr. Francesco Soldovieri, Italian National Research Council), Special issue on "Propagation models and inversion approaches for subsurface and through wall imaging," *International Journal of Antennas and Propagation*, 2012.
3. Danilo Erricolo, Guest Editor, Special Issue on "RF effects on digital systems," *Electromagnetics Journal*, Vol. 25(7-8), 2005 and Vol. 26(1), 2006.

Articles in Edited Books

1. Lorenzo Lo Monte, Francesco Soldovieri, Danilo Erricolo, Michael C. Wicks, "Radio frequency tomography for below ground imaging and surveillance of targets under cover," in *Effective Surveillance for Homeland Security: Balancing Technology and Social Issues*, Francesco Flammini, Roberto Setola, Giorgio Franceschetti Eds., Taylor & Francis/CRC Press, 2013.
2. Danilo Erricolo, "Geometrical Optics," in *Encyclopedia of RF and Microwave Engineering*, Kai Chang Ed., Vol. 2, pp. 1777-1796, John Wiley & Sons, New York, Feb. 2005.
3. Danilo Erricolo, Piergiorgio L.E. Uslenghi, Ying Xu, Qiwu Tan, "Wireless propagation in urban environments: modeling and experimental verification," in *Wave Propagation, Scattering and Emission in Complex Media*, Ya-Qiu Jin Ed., pp. 353-366, Science Press and World Scientific Publishing Co, Beijing and Singapore, 2004.

Journal Papers

1. Amin Darvazehban, Omid Manoochehri, Mohammadali Salari, Ahmad Emadeddin, Danilo Erricolo, "A Parallel Plate Ultra-Wideband Multibeam Microwave Lens Antenna," *IEEE Transactions on Antennas and Propagation*, submitted, 2018.
2. Seiran Khaledian, Farhad Farzami, Hamza Soury, Besma Smida and Danilo Erricolo, "Long-range two-way backscatter modulation: An analytical study," *IEEE Transactions on Wireless Communication*, submitted, 2018.
3. Seiran Khaledian, Farhad Farzami, Besma Smida, Danilo Erricolo, "Inherent self-interference for in-band full-duplex single-antenna," *IEEE Transactions on Microwave Theory and Techniques*, accepted, 2018.
4. Seiran Khaledian, Farhad Farzami, Besma Smida, Danilo Erricolo, "Robust Self-Interference Cancellation for Microstrip Antennas," *IEEE Transactions on Antennas and Propagation*, accepted, 2018.
5. Omid Manoochehri, Amin Darvazehban, Mohammad Ali Salari, Seiran Khaledian, Danilo Erricolo, "A dual-polarized structure based on a biconical antenna for direction finding applications from 2 GHz to 18 GHz," *Microwave and Optical Technology Letters*, accepted, 2018.
6. Farhad Farzami, Seiran Khaledian, Besma Smida, Danilo Erricolo, "Reconfigurable Linear/Circular Polarization Rectangular Waveguide Filtenna," *IEEE Transactions on Antennas and Propagation*, Vol. 66, no. 1, pp. 9-15, Jan. 2018.
7. Seiran Khaledian, Farhad Farzami, Danilo Erricolo, Besma Smida, "A Full-duplex Bidirectional Amplifier with Low DC Power Consumption Using Tunnel Diodes," *IEEE Microwave and Wireless Components Letters*, Vol. 27, no. 12, pp. 1125-1127, Dec. 2017.
8. Danilo Erricolo, Tadahiro Negishi, "Symmetry properties of spheroidal functions with respect to their parameter," *IEEE Transactions on Antennas and Propagation*, Vol. 65, No. 9, Sep. 2017, pp. 4947-4951.
9. Mohammad Ali Salari, Omid Manoochehri, Amin Darvazehban and Danilo Erricolo, "An Active 20 MHz to 2.5 GHz UWB Receiver Antenna System Using a TEM horn," *IEEE Antennas and Wireless Propagation Letters*, first published July 4, 2017.

10. Farhad Farzami, Seiran Khaledian, Besma Smida, Danilo Erricolo, "Reconfigurable Dual Band Amplifier with Applications in Van Atta Array," *IEEE Transactions on Microwave Theory and Techniques*, Vol. 65, No. 11, Nov. 2017, pp. 4198-4207, first published online on May 31, 2017.
11. Omid Manoochehri, Amin Darvazehban and Danilo Erricolo, "UWB Double Ridge Waveguide Coupler with Low-Loss," *Microwave and Optical Technology Letters*, Vol.59, No. 8, Aug. 2017, pp. 1787–1791. first published May 27, 2017.
12. Farhad Farzami, Seiran Khaledian, Besma Smida, and Danilo Erricolo, "Pattern Reconfigurable Printed Dipole Antenna Using Loaded Parasitic Elements," *IEEE Antennas and Wireless Propagation Letters*, Vol. 16, pp. 1151-1154, 2017, first published Nov. 7, 2016.
13. Tadahiro Negishi, Vittorio Picco, Lorenzo Lo Monte, Danilo Erricolo, "Dyadic contrast function for the forward model of diffraction tomography of thin cylindrical objects," *IEEE Antennas and Wireless Propagation Letters*, Vol. 16, pp. 991-994, 2017, first published Oct. 7, 2016.
14. Vittorio Picco, Gianluca Gennarelli, Tadahiro Negishi, Francesco Soldovieri, Danilo Erricolo, "Experimental Validation of the Quadratic Forward Model for RF Tomography," *IEEE Geoscience and Remote Sensing Letters*, Vol. 12, No. 7, July 2015, pp. 1461-1465.
15. Tadahiro Negishi, Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Metamaterial spheroidal cavity to enhance dipole radiation," *IEEE Transactions on Antennas and Propagation*, Vol. 63. No. 6, June 2015, pp. 2802-2807.
16. Tadahiro Negishi, Vittorio Picco, Douglas Spitzer, Danilo Erricolo, Giorgio Carluccio, Federico Puggelli and Matteo Albani, "Measurements to Validate the UTD Triple Diffraction Coefficient," *IEEE Transactions on Antennas and Propagation*, Vol. 62, No. 7, July 2014, pp. 3723-3730.
17. Pawan Setlur, Tadahiro Negishi, Natasha Devroye, Danilo Erricolo, "Multipath Exploitation in Non-LOS Urban Synthetic Aperture Radar," *IEEE Journal of Selected Topics in Signal Processing, Special Issue on Non-cooperative Localization Networks,"* Vol. 8, No. 1, Feb. 2014, pp. 137-152, doi 10.1109/JSTSP.2013.2287185
18. Danilo Erricolo and Giuseppe Carluccio, "Algorithm 934: Fortran 90 subroutines to compute Mathieu functions for complex values of the parameter," *Association for Computing Machinery Transactions on Mathematical Software,* Volume 40 Issue 1, Sept. 2013.
19. Giuseppe Carluccio, Danilo Erricolo, Sukhoon Oh, Christopher M. Collins, "An Approach to Rapid Calculation of Temperature Change in Tissue Using Spatial Filters to Approximate Effects of Thermal Conduction", *IEEE Transactions on Biomedical Engineering*, Vol. 60, No. 6, June 2013, pp. 1735-41, doi: 10.1109/TBME.2013.2241764.
20. Vittorio Picco, Tadahiro Negishi, Shingo Nishikata, Douglas Spitzer, and Danilo Erricolo, "RF Tomography in Free Space: Experimental Validation of the Forward Model and an Inversion Algorithm Based on the Algebraic Reconstruction Technique," *International Journal of Antennas and Propagation*, vol. 2013, Article ID 528347, 9 pages, 2013. doi:10.1155/2013/528347.
21. Alberto Toccafondi, Stefano M. Canta, Danilo Erricolo, "ITD Double-Edge Diffraction for Complex Source Beam Illumination," *IEEE Transactions on Antennas and Propagation*, Vol. 61, No. 5, May 2013, pp. 2688-2694.
22. Giuseppe Carluccio, Christopher M. Collins, Danilo Erricolo, "A fast, analytically-based method to optimize local transmit efficiency for a transmit array," *Magnetic Resonance in Medicine*, Feb. 14 2013, DOI: 10.1002/mrm.24653.
23. Harun T. Hayvaci, Antonio De Maio, Danilo Erricolo, "Improved Detection Probability of a Radar Target in the Presence of Multipath with Prior Knowledge of the Environment," *IET Radar, Sonar & Navigation,* Vol. *7 (1), 2013, pp. 36-46.*
24. Francesco Soldovieri, Lorenzo Lo Monte, Danilo Erricolo, "Tunnel detection and localization via multi-monostatic RF tomography using magnetic sources," *IET Radar, Sonar & Navigation*, Vol. 6, No. 9, Dec. 2012, pp. 834-845.
25. Lorenzo Lo Monte, Francesco Soldovieri, Danilo Erricolo, Antonios Giannopoulos, Michael C. Wicks, "A Comprehensive Forward Model for Imaging Under Irregular Terrain Using RF Tomography," *International Journal of Antennas and Propagation, Special Issue on Propagation Models and Inversion*

Approaches for Subsurface and Through-Wall Imaging, vol. 2012, Article ID 735414, 15 pages, 2012. doi:10.1155/2012/735414, http://www.hindawi.com/journals/ijap/2012/735414/.

26. Lorenzo Lo Monte, Francesco Soldovieri, Danilo Erricolo, Michael C. Wicks, "Imaging Below Irregular Terrain Using RF Tomography," *IEEE Trans. Geoscience and Remote Sensing*, Vol. 50, No. 9, Sept. 2012, pp. 3364-3373.
27. Ke Xu, Danilo Erricolo, Mitra Dutta, Michael A. Stroscio, "Electrical conductivity and dielectric properties of PMMA/Graphite nanoplatelet composites," *Superlattices and Microstructures*, Vol. 51, No. 5, May 2012, pp. 606-612.
28. Oguzhan Akgol, Vito G. Daniele, Danilo Erricolo, Piergiorgio L.E. Uslenghi," Radiation from a line source shielded by a confocal elliptic layer of DNG metamaterial," *IEEE Antennas and Wireless Propagation Letters*, Vol. 10, Sept. 8, 2011, pp. 943-946.
29. Oguzhan Akgol, Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Electromagnetic Radiation and Scattering for a Gap in a Corner Backed by a Cavity Filled with DNG Metamaterial," *Radio Science*, Aug. 4, 2011, doi:10.1029/2010RS004471.
30. Oguzhan Akgol, Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Exact Imaging by an Elliptic Lens," *IEEE Antennas and Wireless Propagation Letters, IEEE Antennas and Wireless Propagation Letters*, Vol. 10, June 13, 2011, pp. 639-642.
31. Stefano M. Canta, Danilo Erricolo, Alberto Toccafondi, "Incremental Fringe Formulation for a Complex Source Point Beam Expansion," *IEEE Trans. Antennas Propagat*, Vol. 59, No. 5, May 2011, pp. 1553-1561.
32. Badria Elnour, Danilo Erricolo, "A novel co-located cross-polarized two-loop PCB antenna in the ISM 2.4 GHz band," *IEEE Antennas and Wireless Propagation Letters*, Vol. 9, 2010, pp. 1237-1240.
33. Arindam Das, Harun T. Hayvaci, Manish K. Tiwari, Ilker S. Bayer, Danilo Erricolo, Constantine M. Megaridis, "Superhydrophobic and Conductive Carbon Nanofiber/PTFE Composite Coatings for EMI Shielding" *Journal of Colloid and Interface Science*, Sept. 2010.
34. Lorenzo Lo Monte, Danilo Erricolo, Francesco Soldovieri, Michael C. Wicks, "RF Tomography for Below-Ground Imaging of Extended Areas and Close-in Sensing," *IEEE Geoscience and Remote Sensing Lett.*, Vol. 7, No. 3, July 2010, pp. 496-500.
35. Lorenzo Lo Monte, Danilo Erricolo, Francesco Soldovieri, Michael C. Wicks, "Radio Frequency Tomography for Tunnel Detection," *IEEE Trans. Geoscience and Remote Sensing*, Vol. 48, No. 3, Mar. 2010, pp. 1128-1137.
36. Todd M. Larsen, Danilo Erricolo, Piergiorgio L.E. Uslenghi, "New method to obtain small parameter power series expansions of Mathieu radial and angular functions," *Mathematics of Computation*, Vol. 78, No. 265, Jan. 2009, pp. 255-274 (electronically published on Apr. 23, 2008).
37. Stefano M. Canta, Danilo Erricolo, "Exact 2D Scattering Analysis of a slot backed by a semielliptical cavity and covered by a multilayer diaphragm," *Radio Science*, 43, RS6006, doi:10.1029/2007RS003809, Dec. 2008.
38. Danilo Erricolo, Stefano M. Canta, Harun T. Hayvaci, Matteo Albani, "Experimental and Theoretical Validation for the Incremental Theory of Diffraction," *IEEE Trans. Antennas Propagat*, Vol. 56, No. 8, Aug. 2008, pp. 2563-2571.
39. Marco Valentino, Danilo Erricolo, "Exact radiation of a dipole in the presence of a circular aperture in a ground plane backed by a spheroidal cavity and covered with an isorefractive diaphragm," *Radio Science*, 42, RS6S13, doi:10.1029/2006RS003548, Oct. 2007.
40. Marco Valentino, Danilo Erricolo, "Exact two-dimensional scattering from a slot in a ground plane backed by a semielliptical cavity and covered with an isorefractive diaphragm," *Radio Science*, 42, RS6S12, doi:10.1029/2006RS003547, Nov. 2007.
41. Danilo Erricolo, "Algorithm 861: Fortran 90 Subroutines for Computing the Expansion Coefficients of Mathieu Functions using Blanch's Algorithm," *Association for Computing Machinery Transactions on Mathematical Software*, Vol. 32, No. 4, Dec. 2006, pp. 622-634.
42. Danilo Erricolo, Piergiorgio L.E. Uslenghi, Badria Elnour, Francesca Mioc, "Scattering by a blade on a metallic plane," *Electromagnetics Journal - Special Issue on RF Effects on Digital Systems*, Vol. 26, No. 1, Jan. 2006, pp. 57-72.

43. Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Exact radiation for dipoles on metallic spheroids at the interface between isorefractive half-spaces," *IEEE Transactions on Antennas and Propagation*, Vol. 53, No. 12, Dec. 2005, pp. 3974-3981.
44. Ying Xu, Qiwu Tan, Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Fresnel-Kirchhoff integral for 2-D and 3-D path loss in outdoor urban environments," *IEEE Transactions on Antennas and Propagation*, Vol. 53, No. 11, Nov. 2005, pp. 3757-3766.
45. Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Penetration, radiation and scattering for a cavity-backed gap in a corner," *IEEE Transactions on Antennas and Propagation*, Vol. 5, No. 8, Aug 2005, pp. 2738-2748.
46. Danilo Erricolo, Michael D. Lockard, Chalmers M. Butler, Piergiorgio L. E. Uslenghi, "Currents on conducting surfaces of a semielliptical-channel-backed slotted screen in an isorefractive environment," *IEEE Transactions on Antennas and Propagation*, Vol. 53, No. 7, July 2005, pp. 2350-2356.
47. Danilo Erricolo, Michael D. Lockard, Chalmers M. Butler, Piergiorgio L. E. Uslenghi, "Numerical analysis of penetration, radiation, and scattering for a 2D slotted semielliptical channel filled with isorefractive material," *Progress in Electromagnetic Research (PIER)*, Vol. 53, 2005, pp. 69-89.
48. Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Exact radiation and scattering for an elliptic metal cylinder at the interface between isorefractive half-spaces," *IEEE Transactions on Antennas and Propagation*, Vol. 52, No. 9, Sept. 2004 pp. 2214-2225.
49. Cristian Berardi, Danilo Erricolo, Piergiorgio L. E. Uslenghi, "Exact dipole radiation for an oblate spheroidal cavity filled with isorefractive material and aperture-coupled to a half space," *IEEE Transactions on Antennas and Propagation*, Vol. 52, No. 9, Sept. 2004, pp. 2205-2213.
50. Danilo Erricolo, "Acceleration of the convergence of series containing Mathieu functions using Shanks transformation," *IEEE Antennas and Wireless Propagation Letters*, Vol. 2, No. 1, 2003, pp.58-61.
51. Danilo Erricolo, Giuseppe D'Elia, Piergiorgio L. E. Uslenghi, "Measurements on scaled models of urban environments and comparisons with ray-tracing propagation simulation," *IEEE Transactions on Antennas and Propagation*, Vol. 50, No. 5, May 2002, pp. 727-735.
52. Danilo Erricolo, Umberto G. Crovella, Piergiorgio L. E. Uslenghi, "Time-domain analysis of measurements on scaled urban models with comparisons to ray-tracing propagation simulation," *IEEE Transactions on Antennas and Propagation*, Vol. 50, No. 5, May 2002, pp. 736-741.
53. Danilo Erricolo, Piergiorgio L. E. Uslenghi, "Propagation Path Loss – A comparison between ray-tracing approach and empirical models ," *IEEE Transactions on Antennas and Propagation*, Vol. 50, No. 5, May 2002, pp. 766-768.
54. Danilo Erricolo, "Experimental validation of second order diffraction coefficients for computation of path-loss past buildings," *IEEE Transactions on Electromagnetic Compatibility*, Vol. 44, No. 1, Feb. 2002, pp. 272-273.
55. Danilo Erricolo, Raymond A. Matthes, Piergiorgio L. E. Uslenghi, Carolyn Williams, "A professional masters degree on the Internet," *IEEE Antennas and Propagation Magazine*, Vol. 43, No. 6, Dec. 2001, pp. 113-114.
56. Danilo Erricolo, Piergiorgio L.E. Uslenghi, "Two dimensional simulator for propagation in urban environments," *IEEE Transactions on Vehicular Technology*, vol. 50, No.4, July 2001, pp. 1158-1168.
57. Danilo Erricolo, "C++ a better language for engineering applications," *IEEE Antennas and Propagation Magazine*, vol. 42, no. 4, Aug. 2000, pp. 95-101.
58. Danilo Erricolo, Raymond A. Matthes, "Web-based instruction in engineering," *IEEE Antennas and Propagation Magazine*, vol. 41. No. 6, Dec. 1999, pp. 113-117.
59. Riccardo Sacco, Danilo Erricolo, Emilio Gatti, "A perturbation approach for low frequency noise in JFET's," *Applied Mathematics and Computation*, vol. 74, 1996, pp. 161-190.

Presentations at Peer-Reviewed Conferences

1. V. Foroutan, F. Farzami, D, Erricolo, R. Majumdar I. Paprotny "SAT-C: An Efficient Control Strategy for Assembly of Heterogenous Stress-Engineered MEMS Microrobots", *International Conference on Robotics and Automation (ICRA)*, Brisbane, Australia, May 21-25, 2018.
2. V. Foroutan, F. Farzami, D, Erricolo, I. Paprotny, "Efficient Constant-Time Addressing Scheme for Parallel-Controlled Assembly of Stress-Engineered MEMS Microrobots", *International Conference on Control, Automation and Robotics (ICCAR)*, Auckland, New Zealand, Apr. 20-23, 2018.
3. Yangqing Liu, Tadahiro Negishi, Danilo Erricolo, "Radio Frequency Tomography for a Reinforced Concrete Cylinder by Genetic Algorithm," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Boston, MA, July 8-13, 2018.
4. Omid Manoochehri, Farhad Farzami, Mohammad Ali Salari, Danilo Erricolo, "A Substrate Integrated Waveguide Slot Array with Voltage-Controlled Liquid Crystal Phase Shifter," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Boston, MA, July 8-13, 2018.
5. Seiran Khaledian, Farhad Farzami, Besma Smida, Danilo Erricolo, "Inherent self-interference cancellation at 900 MHz for in-band-full-duplex applications," *2018 IEEE 19th Wireless and Microwave Technology Conference (WAMICON 2018)*, Sand Key, FL, Apr. 9-10, 2018.
6. N. Nartasilpa, S. Shahi, A. Salim, D. Tuninetti, N. Devroye, D. Erricolo, D.P. Zilz, and M.R. Bell, "Let's share CommRad: Co-existing Communications and Radar Systems," IEEE Radar Conference (RADARCON), Oklahoma City, OK, 23-27 April 2018.
7. Yanggqing Liu, Danilo Erricolo, "Ultimate intrinsic signal-to-noise ratio of MRI surface coils for a lossy dielectric elliptical cylinder," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2018.
8. Pejman Raisi, Farhad Farzami, Seiran Khaledian, Omid Manoochehri, Danilo Erricolo, "Low power reflection amplifier using extracted S-parameter of tunnel diode in RFID application," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2018.
9. Vahid Foroutan, Omid Manoochehri, Amin Darvazehban, Farhad Farzami and Danilo Erricolo, "Ultra-wideband ring-cavity power combiner," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2018.
10. Omid Manoochehri, Amin Darvazehban, Ahmad Emadeddin, and Danilo Erricolo, "New method for designing high efficiency multi feed multi beam reflector antennas," *invited*, special session on "Computational Methods and Experimental Results: Comparison and Uncertainty Analysis for Antenna Radiation, Scattering and RCS Applications," *International Conference on Electromagnetics in Advanced Applications*, Verona, Italy, Sept. 11-15, 2017.
11. Danilo Erricolo, Farhad Farzami, Piergiorgio L.E. Uslenghi, "Scattering by an Elliptic Half-Cylinder Located Inside a Dihedral Reflector," invited, *XXXII URSI General Assembly and Scientific Symposum*, Montreal, Quebec, Canada, Aug. 19-26, 2017.
12. Danilo Erricolo, "Benchmarking computational electromagnetics with exact analytical solutions of canonical electromagnetic scattering problems," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, CA, July 9-14, 2017.
13. Farhad Farzami, Seiran Khaledian, Besma Smida, Danilo Erricolo, "Ultra-Low Power Reflection Amplifier using Tunnel Diode for RFID applications," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, CA, July 9-14, 2017.
14. Amin Darvazehban, Ahmad Emadeddin, Omid Manoochehri, Danilo Erricolo, "Wide Band Multi-Beam Cylindrical Lens," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, San Diego, CA, July 9-14, 2017.
15. Ahmad S. Salim, Daniela Tuninetti, Natasha Devroye, and Danilo Erricolo, "Modeling the Interference of Pulsed Radar Signals at OFDM-Based Communications Systems," *2017 IEEE Radar Conference*, Seattle, WA, May 8-12, 2017.
16. Farhad Farzami, Seiran Khaledian, Besma Smida, Danilo Erricolo, "Tunable SIW cavity backed active antenna with circular polarization," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2017.

17. Seiran Khaledian, Farhad Farzami, Besma Smida, Danilo Erricolo, "Enhancement of backscatter tags efficiency by means of low-power transistor-based reflection amplifier and QPSK modulator," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2017.
18. Tadahiro Negishi, Gianluca Gennarelli, Yangqing Liu, Danilo Erricolo, Francesco Soldovieri, "Imaging performance comparison in reinforced concrete pillars using ground penetrating radar and radio frequency tomography," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2017.
19. Omid Manoochehri, Amin Darvazehban, Farhad Farzami, Danilo Erricolo, "High gain omnidirectional array antenna with low side lobe levels in the elevation plane," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2017.
20. Omid Manoochehri, Amin Darvazehban, Farhad Farzami, Danilo Erricolo, "High gain miniaturized multi-beam Luneburg lens antenna for satellite communications," *USNC-URSI National Radio Science Meeting*, Boulder, CO, Jan. 4-7, 2017.
21. Narueporn Nartasilpa, Daniela Tuninetti, Natasha Devroye, Danilo Erricolo, "On the Error Rate of a Communication System Suffering from Additive Radar Interference," *IEEE GlobeCom 2016*, Washington D.C., USA, Dec. 4-8, 2016.
22. Seiran Khaledian, Farhad Farzami, Besma Smida and Danilo Erricolo, "A power-efficient implementation of in-band full-duplex communication system (ReflectFX)," *2016 International Symposium on Signal, Image, Video and Communications (ISIVC)*, Tunis, Tunisia, Nov. 21-23, 2016, pp. 242-246.
23. Danilo Erricolo, Marco Poort, Piergiorgio L.E. Uslenghi, "Scattering by a metallic wedge cylindrically capped with penetrable materials," *URSI Asia-Pacific Radio Science Conference (URSI AP-RASC)*, Seoul, Korea, Aug. 21-25, 2016, pp.1042-1045.
24. Tadahiro Negishi, Vittorio Picco, Danilo Erricolo, Gianluca Gennarelli, Francesco Soldovieri, Piergiorgio L.E. Uslenghi, "Experimental Validation of Radio Frequency Tomography for an Inhomogeneous Medium," *URSI Commission B International Symposium on Electromagnetic Theory (EMTS 2016)*, Espoo, Finland, Aug. 14-18, 2016, pp. 5-8.
25. Wolfgang-M. Boerner, Danilo Erricolo, Tadahiro Negishi, Rui Yang, Gerhard Krieger, Andreas Reigber, Alberto Moreira, "International Development of Multi-band Pol-InSAR Satellite Sensors for Protecting the Flora and Fauna as well as Natural Land and Coastal Environment within the Equatorial Belt of ± 23.77°, ± 18°, ± 12° and ± 8° Latitude," *International Geoscience and Remote Sensing Symposium (IGARSS 2016)*, Beijing, China, July 10-15, 2016, pp. 5690-5693.
26. Daniela Tuninetti, Natasha Devroye, Danilo Erricolo, "Characterization of the Effect of Radar Interference on an Uncoded Data Communication System," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Fajardo, Puerto Rico, June 26 – July 1, 2016.
27. Danilo Erricolo, Tadahiro Negishi, Gianluca Gennarelli, Francesco Soldovieri, "Effect of Green's function choice in Radio Frequency Tomography to investigate reinforced concrete structures," *IEEE Antennas and Propagation Society International Symposium/USNC-URSI National Radio Science Meeting*, Fajardo, Puerto Rico, June 26 – July 1, 2016.
28. Narueporn Nartasilpa, Daniela Tuninetti, Natasha Devroye, Danilo Erricolo, "Let's Share CommRad: Effect of Radar Interference on an Uncoded Data Communication System," *2016 IEEE Radar Conference*, Philadelphia, PA, USA, May 2-6, 2016.
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Patent Disclosures

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