MANOS (EMMANOUIL) M. TENTZERIS
Ken Byers Professor
Georgia Institute of Technology,
School of Electrical and Computer Engineering
24 June 2023

I: EARNED DEGREES

• Ph.D., University of Michigan, Ann Arbor, 1998 (Graduate Advisor: Prof. Linda P.B.Katehi)
• M.Sc., University of Michigan, Ann Arbor, 1994
• B.S.E.E. (Diploma-"Summa Cum Laude") National Technical University of Athens, GREECE, 1992

II: EMPLOYMENT HISTORY

- Ken Byers Professor in flexible electronics, School of Electrical and Computer Engineering, Georgia Tech, 2016-present
- Professor, School of Electrical and Computer Engineering, Georgia Tech, 2009-2016
- Humboldt Guest Professor, FAU, Nuremberg, GERMANY, 8/19-12/19.
- MediaTek Visiting Professor, NTU, Singapore, 1/18-12/18.
- Finland Distinguished Professor (Fi.Di.Pro.), TUT, 8/12-12/16
- Distinguished Visiting Professor, LAAS, Toulouse, 5/12-8/12
- Visiting Professor, GTRI-Ireland, Athlone, Ireland, 5/09-7/09
- Associate Professor, School of Electrical and Computer Engineering, Georgia Tech, 2004-2009
- Invited Professor, School of Electrical and Computer Engineering, Technical University of Munich, Germany, 5/02-8/02
- Assistant Professor, School of Electrical and Computer Engineering, Georgia Tech, 1998-2004
- Research Assistant, Radiation Laboratory, University of Michigan, Ann Arbor, MI, 1992-1998
- Research Assistant, Microwave Lab, National Technical University of Athens, Greece, 1991-1992

III: HONORS AND AWARDS

- IEEE Fellow
- IEEE MTT-S Distinguished Microwave Lecturer (2010-2012)
- Origami RF research was featured in a publication in the Proceedings of National Academy of Science (PNAS) in November 2018.
- Listed among the Top-25 Downloaded IEEE Sensor Papers in November 2013 and in December 2011.
- Listed among the 99th percentile of Scientific Reports with 109,000+ article accesses by 12/1/21.
- Listed among the 25 featured "Science@Microsoft" Technologies highlighting the most significant achievements of Microsoft Reseach over its 20 years of activities [http://www.microsoft.com/en-us/researchconnections/science/stories/anti-counterfeit.aspx]

- “5G as a Wireless Grid Technology” was listed among the Top 10 emerging technologies of 2021 published by Scientific American and The World Economic Forum [https://www.scientificamerican.com/page/contributors-to-top-10-emerging-technologies-of-2021/]

- 2023-2027 IEEE EPS Distinguished Lecturer

- 2023 IEEE Wireless Power Technology Conference & Expo (WPTCE) Second Best Contibution Award
- 2022 Georgia Tech Outstanding Doctoral Thesis Advisor Award
- 2021 IEEE Antennas and Propagation Symposium (APS) Best Student Paper Award
- 2019 Humboldt Research Prize
- 2016-2022 IEEE CRFID (RFID Council) Distinguished Lecturer
- 2018 IEEE ECTC Intel Best Student Paper Award
- 2018 ISAP Second Best Paper Award
- 2017 IMAPS Best Student Paper Award
- 2017 SRC TECHCON Best-in-Session Award
- 2017 Georgia Tech Outstanding Achievement in Research Program Development Award
- 2017 Archimedes IP Salon Gold Medal
- 2016 Bell Labs Prize Third Award
- 2016 GOMACTech Best Poster Paper Award
- 2016 Georgia Tech Capstone Design Expo Best Overall Project ECE, December 2016
- 2015 IET Microwaves, Antennas and Propagation Premium Award
- 2014 Georgia Tech ECE Distinguished Faculty Achievement Award
- 2014 IEEE RFID-TA Best Student Paper Award
- 2013 IET Microwaves, Antennas and Propagation Premium Award
- 2013 IEEE Wireless Power Transfer Conference (WPTC) Second Best Paper Award
- 2012 FiDiPro [Finland Distinguished Professor] Award from the Academy of Finland
- 2012 iCMG Architecture Award of Excellence
- Selected by NSF to represent US as a member of a team of 5 US prominent researchers, that participated in the US-Ireland R&D Partnership Telecommunications Workshop, hold in 11/2011 in Dublin, Ireland, and focusing on Millimeter-wave and sub-THz communication systems.
- Prof. Tentzeris’ research activity in electromagnetic energy scavenging has been highlighted in CBS, NSF Homepage, MSNBC, CNN, Yahoo, Discovery Channel, Boston Globe, IEEE The Institute and 500+ top High-Tech sites (e.g. engagdget.com) as well as in numerous international newspapers (e.g. Asahi Shibun, Vima, Kathimerini, …) as one of the major technical inventions of 2011.
- Selected by SRC and NSF to be part of the 25-member US team to participate in the SRC/NSF/SFI Forum on Integrated Sensors for Cybersystems (FISC-2030) that took place in Ireland in 3/2012 aiming in identifying the critical ultra-low-power (low-frequency, UHF, RF and millimeter-wave) sensor technologies by 2030 and define global guidelines.

- Member of the first Oustanding U.S. Alumni Class of Alexander von Humboldt Foundation/German Research Foundation (DFG)
- 2011 International Workshop on Structural Health Monitoring Best Student Paper Award
- 2010 IEEE Antennas and Propagation Society Piergorgio L. E. Uslenghi Letters Prize Paper Award
- 2010 Georgia Tech Senior Faculty Outstanding Undergraduate Research Mentor Award
- 2010 World-Wide Distinguished Professor Award from the State Administration of Foreign Experts Affairs of China
- 2009 IEEE Transactions on Components and Packaging Technologies Best Paper Award
- 2009 IEEE Antennas and Propagation Symposium (APS) Second Best Student Paper Award
- 2009 E.T.S. Walton Award from Science Foundation Ireland (SFI)
- 2000 NSF CAREER Award
- 2008 IEEE International Microwave Symposium (IMS) Honorable Mention Student Paper Award.
- 2007 IEEE Antennas and Propagation Symposium (APS) Best Student Paper Award.
- 2007 IEEE International Microwave Symposium (IMS) Third Best Student Paper Award.
- 2007 IEEE International Symposium on Antennas and Propagation (ISAP) Poster Presentation Award.
- 2006 Asian-Pacific Microwave Conference (APMC) Award.
- 2006 IEEE Microwave Theory and Techniques (MTT) Society Outstanding Young Engineer Award.
- 2003 IEEE Components, Packaging and Materials' Technology (CPMT) Society Outstanding Young Engineer Award.
- 2004 IBA International Educator of the Year Award.
- 2004 IEEE Transactions on Advanced Packaging Commendable Paper Award.
- 2003 NASA Godfrey "Art" Anzic Collaborative Distinguished Publication Award.
- Best Paper Award by the International Symposium in Microwave and Millimeter-Wave Technology, Beijing, CHINA, August 2002.
- 2002 Outstanding Junior Faculty Award, School of ECE, Georgia Tech.
- Best Paper Award by the Advanced Computational Electromagnetics Society (ACES), ACES Conference, Monterey, CA, March 2001.
- • Listed at "Who-is-Who in America", Marquis Eds., 2002-2011 and at "Who-is-Who in the World", Marquis Eds.,2003-2011.
- Best Paper Award by the International Hybrid Microelectronics and Packaging Society, ISHM, Philadelphia, PA, October 1997.
- Greek Government Academic Excellence Fellowships, 1988-1992.
- Papastavridios Greek Mathematics Excellence Fellowship, 1989.

TEACHING

III.A : INDIVIDUAL STUDENT GUIDANCE

III.A.1. Research Personnel

1. R.Li, Research Scientist II, "Design and Optimization of Compact/Multiband Antennas for Broadband Wireless Applications (PCS, GSM,WLAN, LMDS, UWB, mm-wave)", Period of Collaboration: Summer 2001 – Fall 2011.

2. Y.Fang, Research Scientist, ”Nanotechnology-Based Gas, Chemical and Biological Wireless Sensors”, Period of Collaboration: 2014 – now.
3. Xiaoqiang Zhang, ‘Railway applications of RFID’s”, Visiting Professor, Period of Collaboration: Spring 2010-Spring 2011
4. Min Jin, “Smart skin configurations”, Visiting Professor, Period of Collaboration: Spring 2010-Spring 2011
5. D.Staiculescu, Research Engineer II, “Design and Optimization of SOP Multilayer Wireless Modules Using Statistical and Genetic Algorithms for Biosensing Applications”, Period of Collaboration: Fall 2003 - 2009.
6. G.Jin, “Inkjet-Printed Wideband Baluns for Wearable RF Modules”, Visiting Professor, Period of Collaboration: Summer 2011-Summer 2012.
7. Y.Kawahara, “RF Power Scavenging Modules for Internet of Things Applications”, Visiting Professor, Period of Collaboration: Fall 2011-Fall 2013.
8. H.R.Ahn, “Broadband Couplers for Arbitrarily High Coupling Ratios”, Visiting Scientist, Period of Collaboration: Summer 2015-Summer 2016.

III.A.2. Postdoctoral Fellows

1. N.Bushyager, “Application of Fluid-Dynamics Computational Techniques to the Design of Compact Wireless Modules”, Period of Collaboration: Spring 2005 - Spring 2006.
2. C.You, “Hybrid Electromagnetic/Mechanical Modeling, Design and Optimization of Antenna Arrays on Composite Materials”, Period of Collaboration: Fall 2005 - Fall 2007.
3. D.Anagnostou, “Design of Large Antenna Arrays on Flexible Organics for Space Applications”, Period of Collaboration: Fall 2005 - Fall 2006.

III.A.3. Ph.D. Students

III.A.3.1. Graduated Ph.D. Students

1. N.Bushyager, “Novel Adaptive Time-Domain Techniques for the Analysis and Design of Complex RF and Wireless Structures”, Period Advised: Fall 1999 - Fall 2004, GRADUATED: December 2004, Current Employer: Northrop-Grumman.
2. D.Thompson, “Novel Microwave Structures on Organic and Liquid Crystal Polymer (LCP) Substrates”, (Main advisor; co-advisor: Prof. J.Papapolymerou), Period Advised: Fall 2002 – Spring 2006, GRADUATED: April 2006, Current Employer: Ansoft.
3. G.DeJean, “Multilayer Multiband Compact Antennas for Wireless/WLAN Applications”, Period Advised: Fall 2001 - Fall 2006, GRADUATED: January 2007, Current Employer: Microsoft Research Center.
4. I.-K.Kim, “Design of Fractal-based Filters and Compact Endfire Antennas in Organic and Ceramic Multilayer Technologies”, Period Advised: Spring 2004 - Spring 2006, GRADUATED: April 2006. (Yonsei University, KOREA, co-advisor: Prof. J.-G.Yook), Current Employer: Samsung. Dr.Kim spent significant amount of time (aggregate of 2 years) at GEDC covering the 80% of the design and all fabrication and experiments for his Ph.D. Thesis; the effort culminated in 2 Journal and 3 Conference Publications

5. J.H.Lee, "Hybrid EM and Circuit Optimization of RF Devices Built on Si, GaAs and Multilayer Ceramic (LTCC) and Organic Substrates", Period Advised: Fall 2001 - Fall 2006, GRADUATED: June 2007, Current Employer: Skyworks.
6. S.Nikolaou, "UWB Antennas and Integrated Modules on Silicon Substrates", (Main advisor; coadvisor: Prof. J.Papapolymerou), Period Advised: Fall 2003 - Summer 2007, GRADUATED: June 2007, Current Employer: Frederick University (Cyprus).
7. L.Martin, "Nanomagnetic Materials for Miniaturized UHF/VHF Antennas", (Main advisor; coadvisor: Prof. C.P.Wong), Period Advised: Fall 2003 - Spring 2008, GRADUATED: March 2008, Current Employer: Motorola.
8. Bo Pan, "Ultrawideband Antennas and Ultra-Low-Loss Transitions on Micromachined Silicon and Glass Substrates for Millimeter-Wave Applications", (Equal advising load with co-advisor: Prof. J.Papapolymerou), Period Advised: Fall 03 - Spring 2008, GRADUATED: Spring 2008, Current Employer: Wionics.
9. V.Palazzari, "Design of Novel Filters in LCP Multilayer Structures", Period Advised: Spring 2003 -Fall 2003, Ph.D.; GRADUATED: 11/2003 (University of Perugia, ITALY; Equal advising load with co-advisor: Prof. L.Roselli), Current Employer: W.I.S. (Italy) Dr. Palazzari spent the 11-month period from January-November 2003 in GEDC putting together the last 2 chapters of her PhD Thesis and performing most of the experimental work required for her PhD Thesis; Prof. Tentzeris started co-advising her during his trip to University of Perugia in September 2001; the effort culminated in 2 Journal and 2 Conference Publications.
10. Li Yang, "Inkjet-Printed Paper-Based RFID's", Period Advised: Fall 2005-Fall 2009, Ph.D., GRADUATED: 9/2009, Current Employer: Texas Instruments.
11. A.Rida, "Multiband and Wideband Antennas for Applications up to mmW", Period Advised: Fall 2006-Spring 2011, GRADUATED: 3/2011, Current Employer: Northrop Gruman.
12. T.Wu, "Integrated Antennas for Communication and Sensing Applications", Period Advised: Fall 2006-Spring 2011, GRADUATED: 4/2011, Current Employer: Direct TV
13. S.Kim, "Energy-Optimized Design Techniques for Wireless Communication and Ubiquitous Sensing Nodes", Period Advised: Fall 2009-Fall 2011, PhD Proposal: 1/2011, GRADUATED: 11/2011, Current Employer: Intel.
14. S.Beck, "An Interference-Cancellation Receiver for Multi-Band and Multi-Standard Wireless Communication Systems", Period Advised: Fall 2009-Summer 2011, PhD Proposal Exam: 9/2010, GRADUATED: 6/2011, Current Employer: Texas Instruments..
15. V.Lakafosis, "A hardware-Enabled Certificate of Authenticity System with Intrinsically High Entropy", Period Advised: Fall 2007 -Present, passed Preliminary Exam: Fall 2007, GRADUATED: Spring 2013, Current Employer: CISCO.
16. H.Lee, "Inkjet-printed RF Modules for Sensing and Communication Applications", period Advised: Fall 2009-Present, GRADUATED: Summer 2013, Current Employer: Southern Polytechnic State University (SPSU)
17. T.Thai, "Design and Development of Novel RF Sensors based on Far-Field and Near-Field Principles", Period Advised: Spring 2007-Present, passed Preliminary Exam: Fall 2008, PhD Proposal Exam: Spring 2013, GRADUATED: Fall 2013, Current Employer: GE Global Research *Microsoft Fellowship Recipient*

18. R.Vyas, "An Embedded Wireless Energy Harvesting Platform (E-WEHP) for Powering Sensors using Existing Ambient Wireless Signals", Period Advised: Fall 2006-Present, Passed Preliminary Exam: Fall 2007, Ph.D.Proposal: Spring 2013, GRADUATED: Spring 2014, Current Employer: University of Calgary, CANADA
19. J.Cooper, "A Novel Topology for Wireless Sensors Incorporating an Isotropic Radiator on an EBG Material", Period Advised: Summer 2010-Present, Passed Preliminary Exam: Spring 2011, Ph.D.Proposal: Summer 2013, Expected GRADUATED: Spring 2014, Current Employer: Curo Corporation ***NSF Graduate Fellowship Recipient***
20. S.Kim, "Integrated Inkjet-Printed Sensors and Via-Enabled Structures for WSN and RFID-based Autonomous Wireless Sensor Platforms", Period Advised: Fall 2010-Present, Passed Preliminary Exam: Fall 2010, Ph.D.Proposal: Fall 2013, GRADUATED: Fall 2014, Current Employer: Qualcomm
21. A.Traille, "Inkjet-Printed Ground-Penetrating Radar Systems", Period Advised: Fall 2011-Present (LAAS-CNRS, France; Co-Advisor: Prof. H.Aubert), GRADUATED: Fall 2014.
22. B.Cook, "Vertical Integration of Inkjet-Printed RF Circuits and Systems", Period Advised: Spring 2012-Present, Ph.D.Proposal: Fall 2013, GRADUATED: Summer 2014, Current Employer: Texas Instruments-Kilby Labs
23. T.Le, "Inkjet-Printed Graphene/CNT-Based Ultrasensitive Wireless Gas Sensors", Period Advised: Spring 2012-Present, Passed Preliminary Exam: Fall 2013, GRADUATED: Fall 2016.
24. J.Bito, "Energy Harvesting and Wireless Power Transfer Systems", Period Advised: Fall 2013 – Fall 2017, Passed Preliminary Exam: Spring 2014, Expected GRADUATED: Fall 2017, Current Employer: Texas Instruments-Kilby Labs.
25. J.Kimionis, "Software-Defined-Radio Readers for RFID Applications", Period Advised: Fall 2013-Fall 2017,GRADUATED: Fall 2017, Current Employer: Bell Labs.
26. W.Su, "Inkjet-Printed Microfluidic-Enabled Tunable RF Structures and Sensors", Period Advised: Fall 2013 – Spring 2018, Passed Preliminary Exam: Spring 2014, GRADUATED: Spring 2018, Current Employer: Google.
27. J.Hester, "Low-Cost Printed, Flexible and Energy Autonomous Van Atta and Carbon Nanotubes Based mm-Wave RFID Gas Sensors for Ultra-Long Range Ubiquitous IoT and 5G Implementations", Period Advised: Fall 2013 – Summer 2019, Passed Preliminary Exam: Spring 2015, GRADUATED: Summer 2019, Current Employer: Atheraxon (Founder).
28. A.Nauroze, "Origami-Inspired Tunable RF Structures", Period Advised: Fall 2014-Fall 2019, GRADUATED: Fall 2019, Current Employer: Amazon.
29. S.Alotaibi, "3D Printed Wireless Sensors for Strain and Stress Monitoring in Smart Skin Applications", Period Advised: Spring 2016-2020, GRADUATED: February 2020, Current Employer: Aramco.
30. S.Jeong, "Load-Reconfigurable Wireless Power Transfer Systems and Machine Learning Optimization", Period Advised: Fall 2014-2020, GRADUATED: April 2020, Current Employer: Qorvo.
31. Tong-Hong Lin, "Wearable Zero-Power Sensors and Microfluidics for 5G Applications", Period Advised: Spring 2016-2020, GRADUATED: September 2020, Current Employer: Apple.

32. B.Tehrani, “Additive Manufacturing Solutions for Application-specific Millimeter-Wave Wireless System Design and Packaging”, Period Advised: Summer 2013-2020, GRADUATED: December 2020, Current Employer: Analog Devices.
33. R.Bahr, “3D-Printed RF Circuits”, Period Advised: Spring 2015-2020, GRADUATED: December 2020, Current Employer: Dujud.
34. Xuanke He, “Additively Manufactured RF Components, Packaging, Modules and Flexible Modular Phased Arrays enabling widespread massively scalable mmWave/5G Applications”, Period Advised: Spring 2017-2021, GRADUATED: July 2021, Current Employer: Skyworks.
35. E.M.Jung, “FM and UHF Energy Harvesting Systems”, Period Advised: Fall 2018-2021, GRADUATED: December 2021, Current Employer: PowerCast.
36. A.Eid, “3D printed Novel Lenses, Energy Harvesters and Active Devices for IoT Applications”, GRADUATED: December 2021, Current Employer: MIT-Media Lab.
37. A.Alreshaid, “MM-wave Reconfigurable Antenna Systems for 5G Applications”, GRADUATED: January 2022, Current Employer: KFUPM (Assistant Professor)
38. Y.Cui, “Additively Manufactured Shape-changing RF Devices Enabled by Origami-inspired Structures”, GRADUATED: August 2022, Current Employer: Apple.
39. A.Adeyeye, “Novel RFID Systems and Techniques for Localization, Positioning and Sensing Applications”, GRADUATED: August 2022, Current Employer: Apple.

*. H.Kim, ‘‘CMOS Radio-Frequency Power Amplifiers for Multi-Standard Wireless Communications’’, Period Advised: Spring 2010-Summer 2011, GRADUATED: 5/2011. [Academic Advisor]
*. K.-H.Lee, ‘‘Design of Signal Integrity Enhancement Circuits’’, Period Advised: Summer 2010-Fall 2010, GRADUATED: 11/2010. [Academic Advisor]
*. S.Woo, ‘‘Low Noise RF CMOS Receiver Integrated Circuits’’, Period Advised:Summer 2010-Fall 2010, GRADUATED: 10/2010. [Academic Advisor]
*. J.Cha, ‘‘A CMOS Radio-Frequency Front-End for Multi-Standatd Wireless Communications’’, Period Advised: Summer 2010, GRADUATED: 8/2010. [Academic Advisor]
*. J.Choi, ‘‘Fully-Integrated DLL/PLL-Based CMOS Frequency Snthesizer for Wireless Systems’’, Period Advised: Summer 2010, GRADUATED: 7/2010. [Academic Advisor]
*. H.-W.Kim, ‘‘CMOS RF Transmitter Front-End Module for High-Power Mobile Applications ‘‘, Period Advised: Spring 2010-Present, PhD Proposal Exam: 8/2011, GRADUATED: Spring 2012 [Academic Advisor], Current Employer: RFMD

<u>III.A.3.2. Current Ph.D. Students</u>

1. C.Lynch, “Additively Manufactured Wireless Sensors for Smart Agriculture and Smart Biomonitoring Applications”, Period Advised: Fall 2019-Present, Expected Graduation: Fall 2023.
2. K.Hu, “Additively Manufactured RF Structures for 5G and mmW Applications”, Period Advised: Spring 2020-Present, Expected Graduation: Spring 2024.
3. G.S.V.Angulo, “Printed Wireless Sensors for Space and Gas Detection Applications”, Period Advised: Fall 2021-Present, Expected Graduation: Fall 2025.

4. L.Smith, “Origami Reconfigurable Energy Harvesters”, Period Advised: Fall 2021-Present, Expected Graduation: Fall 2025.
5. I.-T.Chen, “Wireless Power Transfer and Zero-Power RF Components for Reconfigurable Intelligent Surfaces”, Period Advised: Fall 2021-Present, Expected Graduation: Fall 2025.
6. H.Al Jamal, “Self-Calibrated Tile-Based Antenna Arrays Using Computer Vision Techniques”, Period Advised: Fall 2022-Present, Expected Graduation: Fall 2026.
7. M.Joshi, “Multiband flexible RF enhanced-accuracy localization systems”, Period Advised: Fall 2022-Present, Expected Graduation: Fall 2026.
8. W.Callis, “Additively manufactured wireless bio/chemical sensors”, Period Advised: Fall 2022-Present, Expected Graduation: Fall 2026.

III.A.4. M.Sc. Students

III.A.4.1. Graduated M.Sc. Students

1. B.McGarvey, “Efficient Numerical Coupling of FDTD and Solid-State Equations for 1D-circuits”, Period Advised: Summer 2002 - Fall 2007, Graduation Date: Fall 2007, Current Employer: DoD-NSA.
2. S.Bassat, “Design and Optimization of RFID Compact Antennas”, Period Advised: Fall 2003- Fall 2006, GRADUATED: Fall 06, Current Employer: Motorola.
3. N.Tavassolian, “UWB Antennas and Integrated Modules for Breast Cancer Detection Applications”, Period Advised: Fall 2006-Summer 2007.
4. B.Kim, “Reconfigurable Multiband Antennas for mm-wave Applications”, Period Advised: Summer 2005 - Fall 2006, Graduation Date: Fall 06 (Korea University, KOREA), Current Employer: Samsung.
5. L.Ward, “FDTD Modeling of the Crosstalk between Closely Spaced Microstrip Lines on Silicon Substrates”, Period Advised: Summer 2000 - Winter 2000, Graduation Date: Winter 2000, Current Employer: Argon Labs.
6. E.Tsai, “Adaptive Modeling of Novel Micromachined Antennas on High-Resistivity Si Substrates”, Period Advised: Spring 2001 - Fall 2002, Graduation Date: Fall 2002, Current Employer: Northrop-Grumman Corporation.
7. Y.Zhang, “Dual-Band Antenna Arrays for Conformal Space Applications”, Period Advised: Fall 2007-Fall 2009 (UoLille/France; co-advisor: Prof.Pavlidis).
8. N. Chaisilwattana, “Novel UHF RFID Antennas for Automotive and Container Applications”, Period Advised: Fall 2007-Fall 2009.
9. C.Kruesi, “3D Conformal Antennas for Supply-Chain and Inventory Tracking Applications”, Period Advised: Fall 2007-Spring 2009.
10. J.Pan, “Compact RFID’s on Metallic Structures”, Period: Fall 2008-Fall 2009.
11. S.Mukala, “Wearable antennas integration with smart clothing”, Period Advised: Fall 2009-Fall 2010.
12. A.Harrabi, “Novel RFID’s for Agricultural Applications”, Period Advised: Fall 2010-Fall 2011 (Faculty of Sciences in Tunis, Tunisia; co-advisor: Prof.Gharsallah)
13. Diapa Sanogo, “Broadband Harvesting Systems”, Period Advised: Fall 2011
14. Guillaume Caillet, “RF Characterization of inkjet-printed CNT films and transmission lines”, Thesis MSc Visiting Student from UoLille, FRANCE, Period Advised: Spring 2011-Fall 2011

15. Sebastien Mauzole, “Doubler implementations on ultralow-cost flexible materials for wireless crack detection”, Thesis MSc Visiting Student from UoLille, FRANCE, Period Advised: Spring 2011-Fall 2011
16. S.Palacios, “Inkjet Printed Smart Wireless Integrated Modules (SWIM)”, Period Advised: Fall 2012-Fall 2013
17. R.Herre, “Novel Inkjet printed Humidity Sensors”, Period Advised: Summer 2013-Fall 2013 (performed his MS Thesis Research as an Exchange Student from University of Erlangen-Nuremberg)
18. C.Saintsing, “Origami Foldable Structures for RF Sensing Applications”, Period Advised: Fall 2013-Fall 2014.

III.A.4.2 Visiting/Current M.Sc. Students

1. R.Bahr, "Inkjet Printed Wearable Motion Sensors", Period Advised: Summer 2014-Present
2. K.Nate, "3D Printed Origami Antennas", Period Advised: 2014-Present

III.A.5. M.Sc./Ph.D. Special Problems Students

1. N.Vasiloglou, “Fractal Antennas for WiFi Modules”, Period Advised: Summer 2003 - Summer 2004.
2. F.Caliskan, “MPI Parallelization of FEM Algorithms”, Period Advised: Spring 2001.
3. K.Madidmanana, “Survey of Carbon Nanotube Fabrication Techniques for Semiconductive and Metal Surfaces”, Period Advised: Fall 2006 - Summer 2007.
4. U.Onyewuchi, “Development of WiMax Miniaturized Antenna Arrays for Base Stations”, Advised: Fall 2006 - Spring 2007

III.A.6. Undergraduate UROP/Special Problems Students

1. B.McGarvey, “Numerical Modeling of Cascaded Transmission Line Interfaces through the Use of Bounce Diagrams”, Period Advised: Winter 1999 - Fall 1999, UROP, Graduation Date: Fall 1999.
2. M.Delwar, “Numerical Modeling of Wire Antennas Using FDTD”, Period: Winter 1999 – Spring 1999, UROP, Graduation Date: Summer 1999.
3. T.Owens, “Numerical Design of a Coupled-Line Planar Filter”, Period: Winter 1999, UROP, Graduation Date: N/A.
4. M.Rutledge, “Study of Crosstalk Effects in Planar Transmission Lines”, Period: Winter 1999, UROP, Graduation Date: N/A.
5. M.Fisher, “Numerical Design of Interdigitated Filters”, Period: Fall 1998 - Summer 1999, UROP, Graduation Date: Fall 1999.
6. L.Compton, “Planar Antennas Analysis Using FDTD”, Period: Fall 1998 -Winter 1999, Independent Research, Graduation Date: Spring 1999.
7. Q.Yasser, “Review of Commonly Used High-Frequency Packaging Geometries”, Period: Winter 1999, Special Topics, Graduation Date: Spring 1999.
8. D.Gauthier, “Review of Amplifier Topologies Used in Wireless Communication Systems”, Period: Winter 1999, Special Topics, Graduation Date: Spring 1999.
9. K.Browse, “Preliminary Models of Finite-Ground Coplanar Waveguides”, Period: Fall 1999, Special Topics, Graduation Date: Summer 2000.

10. A. Awa, "Estimation of Health Effects Caused by Radiation of Handheld Unit Antennas", Period: Fall 1999 - Summer 2000, Special Topics, Graduation Date: Summer 2000.
11. D.Feren, "Preliminary Design of a PCB for Monitoring the Beowulf Cluster", Period: Spring 2000 -Summer 2000, Special Topics.
12. R.Myers, "Benchmarking of a Beowulf Cluster Using LINUX with MPI/PVM Interfaces", Period: Fall 1999 - Fall 2000, Special Topics..
13. W.Frishe, "Development of GUIs for Commercial EM Simulators in Time-Domain", Period: Spring 1999 - Fall 2001, UROP.
14. R.Cicconetti, C.Pearson, B.Moudry and S.McCord, "Development of Monitoring and Geometry Acquisition Tools and Parallelization of ATHENA Adaptive EM Simulation Tool using a BEOWULF Cluster", Period: Summer 1999 - Fall 2001, Special Topics, Graduation Date: N/A.
15. S.Owens, "Gridding and Modeling of a Novel Wideband Vialess CPW-to-Mstrip Transition", Period: Fall 2001, Special Topics, Graduation Date: Spring 2002.
16. S.Bassat, "Design Rules for the Minimization of Crosstalk for Finite-Ground Microstrip Lines in Space Applications", Period: Spring 2002 - Fall 2003, Special Topics, Graduation Date: Fall 2003, ***President's Undergraduate Research Award (PURA) recipient, School of ECE Undergraduate Research 2nd Place***.
17. S.Kulkarni, "Study of Nonsymmetrical Coplanar Waveguides that Are Embedded in Low-Resistivity Si Layers", Period: Spring 2002 - Spring 2003, Special Topics, Graduation Date: Spring 2003, ***President's Undergraduate Research Award (PURA) recipient*.**
18. J.Vickers, "Design and Modeling of LTCC Vertically-integrated Baluns in Microstrip and CPW Configurations", Period: Spring 2002 - Fall 2002, Special Topics, Graduation Date: Fall 2002.
19. T.Cervantes, "Code Optimization for RF-MEMS Numerical Hubrid Simulators", Period: Fall 2002 -Spring 2003, Special Topics, Graduation Date: Fall 2003.
20. G.Schumann, Anya Traille, C.Sanders, B.-C.Nguyen, "Setup of a new anechoic chamber up to 40 GHz/Modeling of Metamaterial-Based Circuits", Period: Fall 2003-Spring 2004, Special Topics.
21. G.Doney, "Fabrication of 3D Metamaterial Structures", Period: Spring 2005, Special Topics.
22. A.Rida, "Modeling of Micromachined Monopole Antennas", Period: Spring 2005-Summer 2006, Special Topics, ***2006 IEEE MTT-S Undergraduate/Pre-graduate Scholarship Recipient.***
23. L.Nisonov, "Modeling and Design of Metamaterial/Loaded Transmission Lines", Period: Spring 2005, Special Topics.
24. Q.Xu, "Development of RFID Antennas for Embedded Tire Applications", Period: Spring 2005, Special Topics.
25. A.Sharpe, "60GHz Filters Using 3D resonators in LTCC Technologies", Period: Spring 2005, Special Topics.
26. E.Tsai, "60GHz Yagi-Uda Antennas and Integration with Nanostructures", Period: Summer 2005 -Fall 2005, Special Topics.
27. T.Ferrer, "HF and UHF RFID Characterization", Period: Fall 2005 - Fall 2006, Special Topics, ***President's Undergraduate Research Award (PURA) recipient.***

28. F.Falcon, "RFID's for Container Tracking Applications", Period: Fall 2005 - Fall 2006, Special Topics.
29. M.Pichkhadze, "Authentication Algorithms for RFIDs", Period: Spring 2007, Special Topics.
30. D.Compston, "Modeling of Carbon-NanoTube Ultrasensitive Chemical Sensors", Period: Spring 2007-Fall 2007, Special Topics.
31. T.Thai, "Nanoengineering Thermal Solutions on Graphene", Period: Fall 2006-Fall 2007, Special Topics, ***President's Undergraduate Research Award (PURA) recipient, 2007 Georgia Tech School of ECE Undergraduate Research Award recipient, 2007 IEEE MTT-S Undergraduate/Pre-graduate Scholarship recipient, 2007 SAIC Student Paper Award recipient.***
32. R.Moussounda, "Adhesives for Paper-Printed Electronics", Period: Spring 2008-Fall 2008, Special Topics.
33. J.Pan, "Compact RFID's on Metallic Structures", Period: Spring 2008, Special Topics.
34. N.Gorheski, "Automotive Passive RFID's with Enhanced Range", Period: Spring 2008, Special Topics.
35. S.Travis, "Miniaturized Wideband/Dual-Band UHF Antennas", Period: Fall 2007-Spring 2008, Special Topics.
36. J.Ratner, "Nanotechnology and Plasmonis RF Applications", Period: Fall 2008-Spring 2009, Special Topics
37. Dora Ahbe, "Miniaturized Antennas for Smart-Skin Sensing Applications", Period: Spring 2011-Summer 2011, ***Diploma Visiting Student*** from TU Karlsruhe, GERMANY
38. A.Amaya, "Inkjet-printed CNT-based Wireless Sensors", Period: Fall 2009-Summer 2010, ORS/Special Topics**,** ***President's Undergraduate Research Award (PURA) recipient.***
39. S.Palacios, "Conformal Automotive Radars", Period: Fall 2009-Present, ORS/Special Topics**,** ***President's Undergraduate Research Award (PURA) recipient, 2012 Georgia Tech School of ECE Undergraduate Research Award recipient, 2012 Georgia Tech College of Engineering Undergraduate Research Award recipient.***
40. S.Y.Lee, "Inkjet-printed Antennas for Power scavenging applications", Period: Summer 2011-Present.
41. W.J.Hwang, " Circuit design for doublers and scavenging modules", Period" Summer 2011-Present
42. R.Roca, "Inkjet-Printed CNT-based Gas Sensors", Period: Fall 2010-Present, GT-ORS, ***IEEE MTT-S Undergraduate/Pre-Graduate Fellowship***
43. S.Elia, "Inkjet-Printed Integrated Wireless Sensor Modules", Period: Summer 2011-2012, GT-ORS Student.
44. J.T.Brock, "Zero-Power Wireless Sensors", Period: Fall 2011-2012.
45. S.Wilson, "Investigation of Chemical Mechanisms for the Ultrasensitive Gas Detection", Period: Summer 2011-2012, GT-ORS Student.
46. Aisha Jackson, "Sense for Cents", Period: 2015-Present, GT-ORS Student
47. Emily Pitts, "Sense for Cents", Period: 2015-Present, GT-ORS Student
48. Eric Rafalovsky, "Sense for Cents", Period: 2015-Present, GT-ORS Student
49. Hans Webster, "Sense for Cents", Period: 2015-Present, GT-ORS Student

III.B: OTHER TEACHING ACTIVITIES

1. Development of home pages for EE3310 [Electromagnetics II], ECE3065 [Electromagnetic Applications] (http://www.ece.gatech.edu/ etentze/3065f08.html), ECE4390 [Radar and Electromagnetic Sensing], ECE6261 [Numerical Methods for Electromagnetics] and ECE6380 [Numerical Methods for Electromagnetics] (http:// www.ece.gatech.edu/ etentze/6380f08.html) Courses. Through the use of these home pages (Summer 1998-Fall 2010), undergraduate and graduate students can obtain previous homeworks and solutions, as well as important information concerning textbook typos and deadlines. Additional examples have been added in .pdf format and an easy-to-use Course Schedule is available.
2. Development of a Preliminary Graphical User Interface (GUI) for the full-wave FDTD modeling of Transmission Lines, Filters and Antennas. This CAD tool could be used as a means for a comprehensive demonstration and the visualization of high-frequency effect in the semester format Electromagnetics courses (ECE3025 [Electromagnetics], ECE3065 [Electromagnetic Applications]).
3. Development of a Beowulf Parallel-Processor Cluster with 8 dual nodes, that is currently extended to 24 dual nodes. This cluster could be used as a testbed for the demonstration of the principles of code parallelization for the simulations of complex wireless structures (ECE6380 [Numerical Techniques for Electromagnetics]).
4. Development of a new senior-level course on RFID Technologies (ECE4803A) in collaboration with Prof. Durgin. This proposal was approved from the Electromagnetics-TIG and School of ECE and the course has been already taught twice (Spring 2009, Spring 2010).

IV:SCHOLARLY ACCOMPLISHMENTS

IV.A: PUBLISHED BOOKS AND PARTS OF BOOKS

1. L.P.B.Katehi, J.F.Harvey and E.Tentzeris, "Time-Domain Analysis Using Multiresolution Expansions", Chapter in the book: Advances in Computational Electrodynamics, edited by A.Taflove, pp.111-162, Artech House, 1998.
2. E.M.Tentzeris, "Numerical Techniques in RF and Microwave Design", Section for the Book: The RF and Microwave Handbook, edited by M.Golio, pp.8.13-8.34, CRC Press, 2000.
3. J.Laskar, E.M.Tentzeris, J.Schutt-Aine and R.Tummala, "Fundamentals of RF Packaging", Chapter in the book: Fundamentals of Microsystems Packaging, edited by R.Tummala, pp.500-541, McGraw- Hill, 2001.
4. E.M.Tentzeris, "Full-Wave Methods for the Analysis, Modeling and Design of RF and Microwave Geometries", Section for the Book: The RF/Microwave Applications: Challenges and Solutions, edited by M.Golio, pp.18.1-18.32, CRC Press, June 2003.
5. E.M.Tentzeris and N.Bushyager, "Electromagnetics: Time-Domain Techniques," Chapter for the Book: Encyclopedia of RF and Microwave Engineering, edited by K.Chang, Wiley Eds., June 2004.
6. E.M.Tentzeris, K.Lim, S.Pinel and J.Laskar, "RF/Wireless Packaging," Chapter for the Book: Encyclopedia of RF and Microwave Engineering, edited by K.Chang, Wiley Eds., June 2004.
7. J.Goswami, E.M.Tentzeris and N.Bushyager, "Application of Wavelets to Electromagnetics," Chapter for the Book: Encyclopedia of RF and Microwave Engineering, edited by K.Chang, Wiley Eds., June 2004.

8. E.M.Tentzeris and R.L.Li, "Wideband Antennas on Silicon," Chapter for the Book: The Silicon Heterostructure Handbook, edited by J.D.Cressler, pp.1099-1118, Marcel-Dekker Eds., December 2005.
9. N.Bushyager and M.M.Tentzeris, "MRTD (MultiResolution Time-Domain) Method in Electromagnetics", Synthesis Lectures on Computational Electromagnetics, Morgan and Claypool Editions, November 2005.
10. E.M.Tentzeris,L.Yang, A.Rida and S.Basat "RFID: Beyond the Basics", Chapter for the Book: RFID Applied, edited by J.Banks, D.Hanny, M.Pachano and L.Thompson, pp.95-123, J.Wiley and Sons Eds., June 2007.
11. E.M.Tentzeris,L.Yang, A.Rida and S.Basat "RFID: Issues of Security and Privacy", Chapter for the Book: RFID Applied, edited by J.Banks, D.Hanny, M.Pachano and L.Thompson, pp.269-296, J.Wiley and Sons Eds., June 2007.
12. J.-H.Lee and M.M.Tentzeris, "Three-Dimensional Integration and Modeling: A Revolution in RF and Wireless Packaging", Synthesis Lectures on Computational Electromagnetics, Morgan and Claypool Editions, December 2007.
13. E.M.Tentzeris, "Numerical Techniques for the Analysis and Design of RF/ Microwave Structures", Section for the Book: RF and Microwave Circuits, Measurements and Modeling, edited by M.Golio, pp.28.1-28.34, CRC Press, January 2008.
14. B.Pan, J.Papapolymerou and E.M.Tentzeris, "MEMS for Antennas", Chapter for the Book: Modern Antenna Handbook, edited by C.Balanis, pp.829-865, J.Wiley and Sons Eds., July 2008.
15. M.M.Tentzeris, B.Pan and R.L.Li, "Multiband Planar Wire Antennas", Chapter for the Book: Multiband Integrated Antennas for 4G Terminals, edited by D.Sanchez-Hernandez, pp.53-94, Artech House Eds., August 2008.
16. J.Papapolymerou, M.M.Tentzeris, J.Laskar and S.Bhattacharya, "Radio-Frequency System-on-Package (RF SOP)", Chapter for the Book: Introduction to System-On-Package (SOP): Miniaturization of the Entire System, edited by R.R.Tummala and M.Swaminathan, McGraw-Hill, August 2008.
17. S.Chakraborty, J.Laskar and E.M.Tentzeris, "Mixed-Signal Design and Packaging of RF and Wireless Microsystems", J.Wiley and Sons Eds., January 2009.
18. L.Yang, A.Rida and M.M.Tentzeris, "Design and Development of RFID's and RFID-enabled Sensors on Flexible Low-Cost Substrates", Synthesis Lectures on Computational Electromagnetics, Morgan and Claypool Editions, June 2009.
19. V.Lakafosis, R.Vyas and M.M.Tentzeris, "Enabling Localization Services in Single- and Multihop Wireless Networks", Chapter for the Book: Handbook on Smart Antennas for RFID Systems, edited by N. Karmakar, Wiley Eds., July 2010.
20. A.Rida, L.Yang and M.M.Tentzeris, "RFID-Enabled Sensor Design and Applications", Artech House Publishers, February 2010.
21. M.M.Tentzeris, L.Yang, A.Traille and A.Rida, " "Green" Inkjet-Printed Wireless Sensor Nodes on Low-Cost Paper, Liquid and Flexible Organic Substrates", Chapter for the Book: Electromagnetics and Network Theory and Their Microwave Technology Applications: A Tribute to Peter Russer, edited by S.Lindenmeier and R.Weigel, Springer Eds., July 2011.

22. V.Lakafosis, R.Vyas, C.Mariotti, T.Le and M.M.Tentzeris, “Integrating Tiny RFID and NFC Based Sensors With the Internet”, Chapter for the Book: Green RFID Systems, Cambridge University Press, 2014.
23. M.M.Tentzeris, S.Kim, A.Traille, B.S.Cook and T.Le, “Materials for Substrates”, Chapter for the Book: Green RFID Systems, Cambridge University Press, 2014.
24. M.M.Tentzeris, R.Vyas, W.Wei, Y.Kawahara, L.Yang, S.Georgakopoulos, V.Lakafosis, S.Kim, H.Lee, T.Le, S.Mukala and A.Traille, “Power Issues in Biomedical Telemetry”, Chapter in Handbook of Biomedical Telemetry, edited by K.S.Nikita, Wiley-IEEE Press, August 2014.
25. M.M.Tentzeris, S.Kim, V.Lakafosis, H.Lee, T.Le, R.Vyas, S.Mukala and A.Traille, “Advanced Material-Based Sensing Structures”, Chapter in Handbook of Biomedical Telemetry, edited by K.S.Nikita, Wiley-IEEE Press, August 2014.
26. B.S.Cook, B.Tehrani, J.R.Cooper, S.Kim and M.M.Tentzeris, “Inkjet Printing Technology for 2D/3D Flexible Electronic Systems”, Chapter in Handbook of Flexible Organic Electronics, Materials, Manufacturing and Applications, edited by S.Logothetidis, Woodhead Publishing, December 2014.
27. S.Kim, B.Cook, J.Cooper and M.M.Tentzeris, “Inkjet-Printed Artificial Magnetic Conductor (AMC) Plane for Wearable Antennas”, Chapter for the Book: Innovation in Wearable and Flexible Antennas, edited by H.Khaleel, WIT Press, 2015.
28. J.Kimionis, B.Tehrani, J.G.D.Hester, W.Su, J.Bito and M.M.Tentzeris, “Inkjet-Printed Wearable “Smart Skins” “, Chapter for the Book: Electromagnetics of Body-Area Networks: Antennas, Propagation and RF Systems, edited by D.Werner and Z.Jiang, Wiley Eds. 2015.
29. B.K.Tehrani, J.Hester, J.Bito, W.Su, R.Bahr, B.S.Cook and M.M.Tentzeris, “Advanced Antenna Fabrication Processes (MEMS/LTCC/LCP/Printing)”, Chapter for the Book: Handbook of Antenna Technologies, edited by Z.N.Chen, D.Liu, H.Nakano, X.Qing and Th.Zwick, Springer Eds., 2016.
30. M.M.Tentzeris, A.Eid, T.-H.Lin, J.G.D.Hester, Y.Cui, A.Adeyeye, B.Tehrani and S.A.Nauroze, “Inkjet-/3D-/4D-Printed Nanotechnology-Enabled Radar, Sensing, and RFID Modules for Internet of Things, “Smart Skin,” and “Zero Power” Medical Applications”, Chapter for the Book: Antenna and Sensor Technologies in Modern Medical Applications, edited by Y.Rahmat-Samii and E.Topsakal, Wiley – IEEE Press, 2021.
31. A.Georgiadis, A.Collado and M.M.Tentzeris, “Enery Harvesting: Technologies, Systems and Challenges”, Cambridge University Press, 2021.
32. Y.Cui, E.Min Jung, A.Adeyeye, C.Lynch, X.He and M.Tentzeris, “Additively Manufactured RF Devices for 5G, IoT, RFID, WSN and Smart City Applications”, Chapter for the Book: “Nanotechnology for Electronics, Biosensors, Additive Manufacturing and Emerging Systems Application”, edited by C.Broadbridge, F.C.Jain, H.Tang and M.Gherasimova, World Scientific Publishing Company, 2021.
33. Y.Cui, S.A.Nauroze and M.M.Tentzeris, “Origami-inspired 4D tunable RF and wireless structures and modules”, Chapter for the Book: Smart Materials in Additive Manufacturing, Vol.2: 4D Printing mechanics, modeling and advanced engineering applications”, edited by M.Bodaghi and A.Zolfagharian, Elsevier Press, 2022.

IV.B: REFEREED PUBLICATIONS [Google Scholar h-factor=80 / 26,648 citations]

IV.B.1. Refereed Journal Publications

1. G.Ponchak, E.Tentzeris and L.P.B.Katehi, "Characterization of Finite Ground Coplanar Waveguide with Narrow Ground Planes", Int. Journ. of Microcircuits and Electronic Packaging, Vol. 20, No. 2, pp. 167-173, Second Quarter, 1997.
2. G.Ponchak, E.Tentzeris and L.P.B.Katehi, "Characterization of the Coupling Between Adjacent Finite Ground Coplanar (FGC) Waveguides", Int. Journ. of Microcircuits and Electronic Packaging, Vol. 20, No. 4, pp. 587-592, Fourth Quarter, 1997.
3. T.P.Budka, E.Tentzeris, S.Waclawik, N.Dib, L.P.B.Katehi and G.M.Rebeiz, "Near-Field Mapping Above a Coupled-Line Filter and a MMIC", Microwave Journal, Vol.41, No.3, pp.94-106, March 1998.
4. E.Tentzeris, M.Krumpholz, N.Dib, J.-G.Yook and L.P.B.Katehi, "FDTD Characterization of Waveguide Probe Structures", IEEE Transactions on Microwave Theory and Techniques, Vol.46, No.10, pp.1452-1460, October 1998.
5. R.L.Robertson, E.Tentzeris and L.P.B.Katehi, "Modelling of Dielectric-Loaded Cavities using MRTD", Int. Journal of Numerical Modeling, Special Issue on Wavelets in Electromagnetics, Vol.11, pp.55-68, 1998.
6. E.Tentzeris, J.Harvey and L.P.B.Katehi, "Time Adaptive Time-Domain Techniques for the Design of Microwave Circuits", IEEE Microwave and Guided Wave Letters, Vol.9, No.3, pp.96-98, 1999.
7. E.Tentzeris, R.Robertson, J.Harvey and L.P.B.Katehi, "Stability and Dispersion Analysis of Battle-Lemarie Based MRTD Schemes", IEEE Transactions on Microwave Theory and Techniques, Vol.47, No.7, pp.1004-1013, July 1999.
8. E.Tentzeris, R.Robertson, J.Harvey and L.P.B.Katehi, "Application of the PML Absorber to MRTD Battle-Lemarie Schemes", IEEE Transactions on Antennas and Propagation, Vol.47, No.11, pp.1709-1715, November 1999.
9. D.Staciulescu, J.Laskar and E.M.Tentzeris, "Design Rule Development for Microwave Flip-Chip Applications", IEEE Transactions on Microwave Theory and Techniques, Vol.48, No.9, pp.1476-1481, September 2000.
10. A.Sutono, G.Cafaro, J.Laskar and M.Tentzeris, "Experimental modeling, repeatability investigation and optimization of microwave bond wire interconnects", IEEE Transactions on Advanced Packaging, Vol.24, No.2, pp.595-603, November 2001.
11. M.Tentzeris, "3G/4G Wireless Systems: Challenges of the Future" (in Greek), " Pyrforos" National Technical Review of National Technical University of Athens, Vol.12 (2001), No.4, pp.24-40, November 2001.
12. E.Tentzeris, A.Cangellaris, L.P.B.Katehi and J.Harvey "Multiresolution Time-Domain (MRTD) Adaptive Schemes Using Arbitrary Resolutions of Wavelets", IEEE Transactions on Microwave Theory and Techniques, Vol.50, No.2, pp.501-516, February 2002.
13. K.Lim, S.Pinel, M.Davis, A.Sutono, C.-H.Lee, D.Heo, A.Obateyinbo, J.Laskar, E.M.Tentzeris and R.Tummala, "RF-System-On-Package (SOP) for Wireless Communications", IEEE Microwave Magazine, Vol.3, No.1, pp.88-99, March 2002.
14. N.Bushyager, B.McGarvey and E.M.Tentzeris, "Introduction of an Adaptive Modeling Technique for the Simulation of RF Structures Requiring the Coupling of Maxwell's, Mechanical and Solid-State Equations", Applied Computational Electromagnetics Society Journal, Vol.17, No.1, pp.104-111, March 2002.

15. M.F.Davis, A.Sutono, S.-W.Yoon, S.Mandal, N.Bushyager, C.-H.Lee, L.Lim, S.Pinel, M.Maeng, A.Obatoyinbo, S.Chakraborty, J.Laskar, M.Tentzeris, T.Nonaka and R.R.Tummala, "Integrated RF Architectures in Fully-Organic SOP Technology", IEEE Transactions on Advanced Packaging, Vol.25, No.2, pp.136-142, May 2002.
16. R.Li, E.M.Tentzeris, J.Laskar, V.F.Fusco and R.Cahill,"Broadband Loop Antenna for DCS-1800/IMT-2000 Mobile Phone Handsets", IEEE Microwave and Wireless Components Letters, Vol.12, No.8, pp.305-307, August 2002.
17. G.Ponchak and E.M.Tentzeris, "Finite Ground Coplanar Waveguide (FGC) Low Loss, Low Coupling 90-Degree Crossover Junctions", IEEE Transactions on Advanced Packaging, Vol.25 No.3, pp.385-392, August 2002.
18. C.H.Lee, A.Sutono, S.Han, K.Lim, S.Pinel, J.Laskar and E.M.Tentzeris, "A Compact LTCC-based Ku-band Transmitter Module", IEEE Transactions of Advanced Packaging, Vol.25 No.3, pp.374-384, August 2002.
19. D.Staiculescu, J.Laskar and E.M.Tentzeris, "Design of Experiments Technique (DOE) for Microwave/Millimeter Wave Flip-Chip Optimization", International Journal of Numerical Modeling, Vol.16, pp.97-103, January 2003.
20. G.Zheng, J.Papapolymerou and M.M.Tentzeris, "Wideband Coplanar Waveguide RF Probe Pad to Microstrip Transitions without Via Holes", IEEE Microwave and Wireless Components Letters, pp.544-546, December 2003.
21. G.E.Ponchak, M.M.Tentzeris and J.Papapolymerou, "Coupling Between Microstrip Lines Embedded in Polyimide Layers for 3D-MMIC's on Si", IEE Proceedings, H Microwaves, Antennas, and Propagation, Vol. 150, No. 5, pp.344-350, October 2003.
22. K.Kawano, N.Miura, M.Kuroda and M.M.Tentzeris, "A Novel Numerical Approach for the Analysis of MEMS-Based Variable Capacitors with Moving Metallic Plates"-in Japanese, The IEICE Transaction on Electronics, Vol. J87-C, No.1, pp32-38, January 2004.
23. R.L.Li, G.DeJean, J.Laskar and M.M.Tentzeris, "Development and Analysis of a Folded Shorted-Patch Antenna with Reduced Size", IEEE Transactions on Antennas and Propagation, Vol.52, No.2, pp.555-562, February 2004.
24. R.L.Li, G.DeJean, J.Papapolymerou, J.Laskar and M.M.Tentzeris, "FDTD Analysis of Microstrip Patch Antennas and Arrays on High Dielectric-Constant Substrate Surrounded by a Soft-and-Hard Surface", IEEE Transactions on Magnetics, Vol.40, No.2, pp.1444-1447, March 2004.
25. M.Kuroda, N.Miura and M.M.Tentzeris, "A Novel Numerical Approach for the Analysis of 2D MEMS-Based Variable Capacitors Including the Effect of Arbitrary Motions", Applied Computational Electromagnetics (ACES) Society Journal, Vol.19, No.1b, pp.133-138, March 2004.
26. J.Papapolymerou, G.Ponchak, E.Dalton, A.Bacon and M.M.Tentzeris, "Crosstalk Between Finite Ground Coplanar Waveguides over Polyimide Layers for 3D-MMIC's on Si Substrates", IEEE Transactions on Microwave Theory and Techniques, Vol.52, No.4, pp.1292-1301, April 2004.
27. D.C.Thompson, O.Tantot, H.Jallageas, G.E.Ponchak, M.M.Tentzeris and J.Papapolymerou, "Characterization of Liquid Crystal Polymer (LCP) Material and Transmission Lines on LCP Substrates from 30-110 GHz", IEEE Transactions on Microwave Theory and Techniques, Vol.52, No.4, pp.1343-1352, April 2004.

28. M.M.Tentzeris, J.Laskar, J.Papapolymerou, D.Thompson, S.Pinel, R.L.Li, J.H.Lee, G.DeJean, S.Sarkar, R.Pratap, R.Bairavasubramanian and N.Papageorgiou, "RF SoP for Multi-band RF and Millimeter-wave Systems", Advanced Packaging Magazine, pp.15-16, April 2004.
29. N.Bushyager, E.Dalton and M.M.Tentzeris, "Modeling of Complex RF/Wireless Structures Using Computationally Optimized Time-Domain Techniques", International Journal of Numerical Modeling, Vol.17, No.3, pp.223-236, May 2004.
30. R.R.Tummala, M.Swaminathan, M.M.Tentzeris, J.Laskar, G.-K.Chang, S.Sitaraman, D.Keezer, D.Guidotti, Z.Huang, K.Lim, L.Wan, S.K.Bhattacharya, V.Sundaram, F.Liu and P.M.Raj, "The SOP for Miniaturized, Mixed-Signal Computing, Communication and Consumer Systems of the Next Decade", IEEE Transactions on Advanced Packaging, Vol.27 No.2, pp.250-267, May 2004.
31. M.M.Tentzeris, J.Laskar, J.Papapolymerou, S.Pinel, V.Palazzari, R.Li, G.DeJean, N.Papageorgiou, D.Thompson, R.Bairavasubramanian, S.Sarkar and J.-H.Lee, "3D Integrated RF and Millimeter-Wave Functions and Modules Using Liquid Crystal Polymer (LCP) System-on-Package Technology", IEEE Transactions on Advanced Packaging, Vol.27 No.2, pp.332-340, May 2004.
32. J.-H.Lee, N.Bushyager and M.M.Tentzeris, "Comparative Evaluation of DSP Techniques Coupled with EM Time-Domain Simulators for the Efficient Modeling and Design of Highly Resonant RF-MEMS Structures", IEEE Microwave and Wireless Components Letters, Vol.14, No.7, pp.361-363, July 2004.
33. R.L.Li, G.DeJean, K.Lim, M.M.Tentzeris and J.Laskar, "Design of Compact Stacked-Patch Antennas in LTCC Multilayer Packaging Modules for Wireless Applications", IEEE Transactions on Advanced Packaging, Vol.27, No.4, pp.581-589, November 2004.
34. R.L.Li, G.DeJean, J.Papapolymerou, J.Laskar and M.M.Tentzeris, "Radiation-Pattern Improvement of Patch Antennas on a Large-Size Substrate Using a Compact Soft Surface Structure and its Realization on LTCC Multilayer Technology", IEEE Transactions on Antennas and Propagation, Vol.53, No.1, pp.200-208, January 2005.
35. G.DeJean, R.Bairavasubramanian, D.Thompson, G.E.Ponchak, M.M.Tentzeris and J.Papapolymerou, "Liquid Crystal Polymer (LCP): A New Organic Material for the Development of Multilayer Dual Frequency/Dual Polarization Flexible Antenna Arrays", IEEE Antennas and Wireless Propagation Letters, Vol.4, No.1, pp.22-26, January 2005.
36. R.L.Li, D.Thompson, M.M.Tentzeris, J.Laskar and J.Papapolymerou, "Development of a Wideband Short Backfire Antenna Excited by an Unbalance-Fed H-Shaped Slot", IEEE Transactions on Antennas and Propagation, Vol.53, No.2, pp.662-671, February 2005.
37. G.E.Ponchak, J.Papapolymerou and M.M.Tentzeris, "Excitation of Coupled Slotline Mode in Finite-Ground CPW with Unequal Ground-Plane Widths", IEEE Transactions on Microwave Theory and Techniques, Vol.53, No.2, pp.713-717, February 2005.
38. V.Palazzari, S.Pinel, J.Laskar, L.Roselli and M.M.Tentzeris, "Asymmetrical Dual-Band WLAN Filter in Liquid Crystal Polymer System-on-Package Technology", IEEE Microwave and Wireless Components Letters, Vol.15, No.3, pp.165-167, March 2005.

39. G.E.Ponchak, E.Dalton, M.M.Tentzeris and J.Papapolymerou, "Coupling Between Microstrip Lines with Finite Width Ground Plane Embedded in Thin Film Circuits", IEEE Transactions on Advanced Packaging, Vol.28, No.2, pp.320-327, May 2005.
40. D.Staiculescu, N.Bushyager, A.Obatoyinbo, L.Martin and M.M.Tentzeris, "Design and Optimization of 3D Compact Stripline and Microstrip Bluetooth/WLAN Balun Architectures using the Design of Experiments Technique", IEEE Transactions on Antennas and Propagation, Vol.53, No.5, pp.1805-1812, May 2005.
41. J.-H.Lee, G.DeJean, S.Sarkar, S.Pinel, K.Lim, J.Papapolymerou, J.Laskar and M.M.Tentzeris, "Highly Integrated Millimeter-Wave Passive Components Using 3-D LTCC System-on-Package (SOP) Technology", IEEE Transactions on Microwave Theory and Techniques, Vol.53, No.6, pp.2220-2229, June 2005.
42. J.-H.Lee, L.Marcaccioli, G.DeJean, C.Lugo, S.Pinel, J.Papapolymerou, J.Laskar, R.Sorrentino and M.M.Tentzeris, "Advanced System-on-Package (SOP) Front-End Passive Solutions for RF and Millimeter-Wave Wireless Systems", European Microwave Association Magazine, Vol.1, No.2, pp.130-139, June 2005.
43. R.L.Li, D.Thompson, J.Papapolymerou, J.Laskar and M.M.Tentzeris, "A New Excitation Technique for Wideband Short Backfire Antennas", IEEE Transactions on Antennas and Propagation, Vol.53, No.7, pp.2313-2320, July 2005.
44. N.Bushyager, J.Papapolymerou and M.M.Tentzeris, "A Composite-Cell Multiresolution Time-Domain Technique for the Design of Antenna Systems Including Electromagnetic Band Gap and Via-Array Structures", IEEE Transactions on Antennas and Propagation, Vol.53, No.8, Part 2, pp.2700-2710, August 2005.
45. I.-K.Kim, N.Kingsley, M.Morton, R.Bairavasubramanian, J.Papapolymerou, M.M.Tentzeris and J.-G.Yook, "Fractal Shaped Microstrip Coupled Line Bandpass Filters for Suppression of the 2nd Harmonic", IEEE Transactions on Microwave Theory and Techniques, Vol.53, No.9, pp.2943-2948, September 2005.
46. D.C.Thompson, J.Papapolymerou and M.M.Tentzeris, "High Temperature Dielectric Stability of Liquid Crystal Polymer at mm-Wave Frequencies", IEEE Microwave and Wireless Components Letters, Vol.15, No.9, pp.561-563, September 2005.
47. R.L.Li, J.Laskar and M.M.Tentzeris, "Wideband Probe-Fed Circularly Polarized Circular Loop Antennas", Electronics Letters, Vol.41, No.18, pp.997-999, September 2005.
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Generator", Procs. 2012 IEEE Conference on Wireless Sensors and Sensor Networks (WiSNeT 2012), Santa Clara, CA, January 2012. ***Best Student Paper Award Finalist***

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495. M.Ali, A.Watanabe, T.-H.Lin, M.R.Pulugurtha, M.M.Tentzeris and R.R.Tummala, "3D Glass Package-Integrated High-Performance Power Dividing Networks for 5G Broadband Antennas", Proc. of the **2019 IEEE ECTC Conference,** Las Vegas, NV, May 2019, pp.960-967.

496. A.O.Watanabe, Y.Wang, N.Ogura, P.M.Raj, V.Smet, M.M.Tentzeris and R.Tummala, "Low-Loss Additively Deposited Ultra-Short Copper-Paste

Interconnections in 3D Antenna-Integrated Packages for 5G and IoT Applications", Proc. of the **2019 IEEE ECTC Conference,** Las Vegas, NV, May 2019, pp.972-976.

497. A.Eid, J.Hester and M.M.Tentzeris, "A Scalable High-Gain and Large-Beamwidth mm-Wave Harvesting Approach for 5G-Powered IoT", Proc. of the **2019 IEEE IMS Symposium,** Boston, MA, June 2019, pp.1309-1312. **Best Student Paper Honorable Mention**

498. S.A.Nauroze and M.M.Tentzeris, "Fully Inkjet-Printed Multi-layer Tunable Origami FSS Structures with Integrated Thermal Actuation Mechanism", Proc. of the **2019 IEEE IMS Symposium,** Boston, MA, June 2019, pp.1363-1366. **Best Student Paper Honorable Mention**

499. Y.Cui, S.A.Nauroze and M.M.Tentzeris, "Novel 3D-Printed Reconfigurable Origami Frequency Selective Surfaces with Flexible Inkjet-Printed Conductor Traces", Proc. of the **2019 IEEE IMS Symposium,** Boston, MA, June 2019, pp.1367-1370.

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503. Y.Guan, S.Wang, M.M.Tentzeris and Y.Liu, "A Microfluidic Spherical Helix Module Using Liquid Metal and Additive Manufacturing for Drug Delivery Applications", Proc. of the **2019 IEEE IMS Symposium,** Boston, MA, June 2019, pp.1446-1449.

504. X.He and M.M.Tentzeris, "Inkjet Printed Lange Coupler for Antenna Systems", Proc. of the **2019 IEEE APS Symposium,** Atlanta, GA, July 2019, pp.91-92.

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508. M.Ali, A.Watanabe, T.-H.Lin, M.Tentzeris, R.Tummala and P.M.Raj, "Ultra-Wideband Glass Package-Integrated Power Dividers for 5G and mm-Wave Applications", Proc. of the **2019 IEEE APS Symposium,** Atlanta, GA, July 2019, pp.863-864.

509. S.D.Assimonis, S.N.Daskalakis, V.Fusco, M.M.Tentzeris and A.Georgiadis, "High Efficiency RF Energy Harvester for IoT Embedded Sensor Nodes", Proc. of the **2019 IEEE APS Symposium,** Atlanta, GA, July 2019, pp.1161-1162.

510. A.Eid, J.Hester, B.Tehrani and M.Tentzeris, "Flexible W-Band Rectifiers for 5G-Powered IoT Autonomous Modules", Proc. of the **2019 IEEE APS Symposium,** Atlanta, GA, July 2019, pp.1163-1164.

511. A.Eid, J.Hester and M.M.Tentzeris, "A Scalable High-Gain and Large-Beamwidth mm-Wave Harvesting Approach for 5G-powered IoT", Proc. of the **2019 IEEE APS Symposium,** Atlanta, GA, July 2019, pp.1309-1312.

512. T.-H.Lin and M.M.Tentzeris, "Printed 5G Reconfigurable Wireless Modules Using Additive Manufacturing Techniques", Proc. of the **2019 IEEE APS Symposium,** Atlanta, GA, July 2019, pp.1705-1706.

513. A.O.Adeyeye, R.A.Bahr and M.M.Tentzeris, "3D Printed 2.45GHz Yagi-Uda Loop Antenna Utilizing Microfluidic Channels and Liquid Metal", Proc. of the **2019 IEEE APS Symposium,** Atlanta, GA, July 2019, pp.1983-1984.

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2020 IEEE International Microwave Symposium (IMS), Virtual/Los Angeles, CA, June 2020, pp.1157-1160.

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531. X.He and M.M.Tentzeris, “In-Package Additively Manufactured Sensors for Bend Prediction and Calibration of Flexible Phased Arrays and Flexible Hybrid

Electronics", Proc. of the 2021 International Microwave Symposium (IMS), Atlanta, GA, June 2021, pp.327-330.

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533. A.D.Boursianis, M.Salucci, S.Koulouridis, A.Georgiadis, M.Tentzeris and S.K.Goudos, "Dual-Band Frequency Selective Surface Design Using Harris Hawks Optimization", Proc. of the 2021 10th International Conference on Modern Circuits and Systems Technologies (MOCAST), Thessaloniki, GREECE, July 2021,

534. C.A.Lynch, A.O.Adeyeye, A.Eid, J.G.D.Hester and M.M.Tentzeris, "5G/mm-Wave Next Generation RFID Systems for Future IoT Applications", Proc. of the 2021 IEEE International Conference on RFID Technology and Applications (RFID-TA), Delhi, INDIA, October 2021, pp.77-80.

535. G.D.Durgin, M.A.Varner, M.A.Weitnauer, J.Cressler, M.M.Tentzeris, A.Zajic, S.Zeinolabedinzadeh, R.Zekavat, K.Pahlavan, U.Guler and K.Van der Merwe, "Digital Spectrum Twinning and the Role of RFID and Backscatter Communications in Spectral Sensing", Proc. of the 2021 IEEE International Conference on RFID Technology and Applications (RFID-TA), Delhi, INDIA, October 2021, pp.89-92.

536. A.Eid, J.G.D.Hester and M.M.Tentzeris, "Solving the Gain/Coverage Problem to enable 5G-Powered IoT", Procs. of the 2021 Antenna Measurement Techniques Association Symposium (AMTA), Daytona Beach, FL, October 2021.

537. K.Hu, X.He and M.M.Tentzeris, "Flexible and Scalable Additively Manufactured Antenna Array Tiles for Satellite and 5G Applications Using a Novel Rugged Microstrip-to-Microstrip Transition", Procs. IEEE 2021 Antennas and Propagation Symposium, SINGAPORE, December 2021, pp.37-38.

538. A.O.Adeyeye, C.A.Lynch, M.M.Tentzeris and J.Hester, "24GHz RFID for Orientation Detection and Tracking Applications in Human Activity Recognition and Motion Capture", Procs. IEEE 2021 Antennas and Propagation Symposium, SINGAPORE, December 2021, pp.171-172.

539. M.Holda, Y.Cui, A.Nauroze, M.Tentzeris and P.Dahmen, "Pop-Up Card Inspired 3D-Printed Corner Reflector Antenna – A Novel Deployable Antenna", Procs. IEEE 2021 Antennas and Propagation Symposium, SINGAPORE, December 2021, pp.751-752.

540. A.Eid, M.M.Tentzeris, J.Zhu, L.Xu and J.Hester, "UHF Tags Array for Holographic Target Localization and Wireless Health Monitoring", Procs. IEEE 2021 Antennas and Propagation Symposium, SINGAPORE, December 2021, pp.1037-1038. ***[Best Student Paper Award]***

541. A.Alreshaid, Y.Cui, R.Bahr, M.M.Tentzeris and M.S.Sharawi, "A Millimeter Wave Tri-Polarized Patch Antenna with a Bandwidth-Enhancing Parasitic Element", Procs. IEEE 2021 Antennas and Propagation Symposium, SINGAPORE, December 2021, pp.1051-1052.

542. A.Eid, J.Hester and M.M.Tentzeris, “Optimizing Rotman Lens Topologies for 5G Wireless Grids”, Procs. IEEE 2021 Antennas and Propagation Symposium, SINGAPORE, December 2021, pp.1061-1062.

543. C.A.Lynch, A.O.Adeyeye, B.Tehrani and M.M.Tentzeris, “Flexible Passive Smart Skin Temperature Sensor for Remote Sensing in Structural Health Monitoring Applications”, Procs. IEEE 2021 Antennas and Propagation Symposium, SINGAPORE, December 2021, pp.1123-1124.

544. A.Eid, J.Hester and M.M.Tentzeris, “Extending the Range of 5G Energy Transfer: Towards the Wireless Power Grid”, Procs. 2022 16th European Conference on Antennas and Propagation (EuCAP), Madrid, SPAIN, March 2022.

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546. Y.Zhou, K.Hu, M.M.Tentzeris and S.K.Sitaraman, “Mechanical and Ka-Band Electrical Reliability Testing of Interconnects in 5G Wearable System-on-Package Designs Under Bending”, Procs. of the 2022 IEEE 72nd Electronic Components and Technology Conference (ECTC), San Diego, CA, May 2022, pp.914-923.

547. S.D.Assimonis, V.Fusco and M.M.Tentzeris, “Efficient Circular Polarized Metamaterial RF Energy Harvester for Wi-Fi Applications”, Procs.2022 International Workshop on Antenna Technology (iWAT), Dublin, IRELAND, May 2022, pp.150-152.

548. C.A.Lynch III, A.Adeyeye, A.Eid, J.Hester and M.M.Tentzeris, “Ultra-Long-Range Dual Rotman Lenses-Based Harmonic mmID’s for 5G/mm-Wave IoT Applications”, Procs. of the 2022 IEEE International Microwave Symposium (IMS), Denver, CO, June 2022.

549. A.Adeyeye, C.Lynch, J.Hester and M.M.Tentzeris, “A Machine Learning Enabled mmWave RFID for Rotational Sensing in Human Gesture Recognition and Motion Capture Applications”, Procs. of the 2022 IEEE International Microwave Symposium (IMS), Denver, CO, June 2022.

550. K.Hu, G.Soto-Valle, Y.Cui and M.M.Tentzeris, “Flexible and Scalable Additively Manufactured Tile-Based Phased Arrays for Satellite Communication and 5G mmWave Applications”, Procs. of the 2022 IEEE International Microwave Symposium (IMS), Denver, CO, June 2022.

551. R.Salvati, V.Palazzi, G.Cicioni, G.Simoncini, F.Alimenti, M.M.Tentzeris, P.Mezzanotte and L.Roselli, "Zero-Power Wireless Pressure Sensor based on Backscatter Harmonic Transponder in a WPT context", Proc. of the 2022 IEEE Wireless Power Week (WPW), Bordeaux, FRANCE, July 2022, pp.199-202.

552. K.Hu, Y.Zhou, S.K.Sitaraman and M.M.Tentzeris, "Fully Additively Manufactured Flexible Dual-Band Slotted Patch Antenna for 5G/mmW Wearable Applications", Proc. of the 2022 IEEE International Symposium on Antennas and Propagation (APS), Denver, CO, July 2022, pp.878-879.

553. A.Boursianis, M.S.Papadopoulou, S.Koulouridis, A.Georgiadis, M.M.Tentzeris and S.Goudos, "Dual-Band Frequency Selective Surface Design Using Artificial Hummingbird Algorithm", Proc. of the 2022 IEEE International Symposium on Antennas and Propagation (APS), Denver, CO, July 2022, pp.982-983.

554. M.Holda, Y.Cui, M.M.Tentzeris, A.Nauroze and P.Dahmen, "A Novel FSS-Enhanced Pop-Up Card Inspired Corner Reflector Antenna", Proc. of the 2022 IEEE International Symposium on Antennas and Propagation (APS), Denver, CO, July 2022, pp.1584-1585.

555. V.Palazzi, M.Tentzeris, F.Alimenti, P.Mezzanotte and L.Roselli, "A Novel Additively-Manufactured Pressure Transducer for Zero-Power Wireless Sensing", Proc. of the 2022 European Microwave Conference (EuMC), Milan, ITALY, September 2022, pp.68-71.

556. K.Hu, Y.Zhou, S.K.Sitaraman and M.M.Tentzeris, "Additively manufactured flexible material characterization and on-demand "smart" packaging topologies for 5G/mmwave wearable applications", Procs. of the 2023 IEEE 73rd Electronic Components and Technology Conference (ECTC), Orlando, FL, May 2023.

557. A.Eid, N.Rich, A.Hattori, I.-T.Chen, J.Hester and M.M.Tentzeris, "Deployable Origami Coils for Wireless UAV in-Flight Powering", Procs. of the 2023 IEEE Wireless Power Technologies Conference & Expo (WPTCE), San Diego, CA, June 2023. ***[Second Best Contribution Award]***

558. L.Smith, C.Lynch, C.A.Kaylor, L.A.Campos, L.Cheng, S.Ralph and M.M.Tentzeris, "A Converged Optical and mm-Wave Dual-Band Multi-Beam Rotman Lens Antenna System Enabling Simplified Designs of 5G/mmW Base Stations and Network Densification", Procs. of the 2023 IEEE International Microwave Symposium (IMS), San Diego, CA, June 2023.

559. C.A.Lynch III, G.Soto-Valle, J.Hester and M.M.Tentzeris, "mmIDs Enter the 3rd Dimension: A Camera Inspired Broadbeam High-Gain Retrodirective Backscatter Tag", Procs. of the 2023 IEEE International Microwave Symposium (IMS), San Diego, CA, June 2023.

560. I.-T.Chen, C.A.Lynch III, A.Eid, J.G.D.Hester and M.M.Tentzeris, "Rotman-Lens-Based Reconfigurable Intelligent Surface mmID with Energy Harvesting Capability", Procs. of the 2023 IEEE International Microwave Symposium (IMS), San Diego, CA, June 2023.

561. K.Hu, T.Callis and M.M.Tentzeris, "Additively Manufactured Flexible On-Package Phased Antenna Arrays with Integrated Microfluidic Cooling Channels for 5G/mmWave System-on-Package Designs", Procs. of the 2023 IEEE International Microwave Symposium (IMS), San Diego, CA, June 2023.

562. M.Joshi, C.A.Lynch III, G.Soto-Valle, A.Adeyeye, R.Bahr and M.M.Tentzeris, "Machine Learning-Enhanced Gyro mmID-Sensor for Virtual Reality and Motion Tracking Applications", accepted for presentation to European Microwave Week (EuMW) 2023, Berlin, GERMANY, September 2023.

<u>IV.C: OTHER PUBLICATIONS</u>

1. E.Tentzeris, N.Dib, L.P.B.Katehi, J.Oswald and P.Siegel, "Modeling of Diode Mounting Structures Using the Finite Difference Time-Domain Method", Proc. of

the 1994 International Union of Radio Science (URSI) Symposium, p.277, Seattle, WA, June 1994.

2. K.Goverdhanam, E.Tentzeris and L.P.B.Katehi, "Macromodeling of Circuit Components for High-Frequency Applications", Proc. of the 1995 URSI Symposium, p.361, Newport Beach, CA, June 1995.
3. J.-G.Yook, E.Tentzeris and L.P.B.Katehi, "Parallelization of the Finite Difference Time-Domain Code on Shared Memory Machine", Proc. of the 1996 Progress in Electromagnetics Research Symposium (PIERS), p.85, Innsbruck, AUSTRIA, July 1996.
4. G.E.Ponchak, E.Tentzeris and L.P.B.Katehi, "Finite Ground Coplanar (FGC) Waveguide: A Better Transmission Line", Proc. of the 1998 PIERS Symposium, p.86, Nantes, FRANCE, October 1998.
5. E.M.Tentzeris, D.Staiculescu, N.G.Cafaro and J.Laskar, "Design and Optimization of Novel RF Packaging Structures Using Multiresolution and Statistical Schemes", Invited Paper in the 2000 PIERS Symposium, p.384, Boston, MA, July 2000.
6. N.Bushyager, B.McGarvey and E.M.Tentzeris, "Modeling of Photonic Bandgap (PBG) Devices Using MRTD Adaptive Schemes", Invited Paper in the 2000 PIERS Symposium, p.58, Boston, MA, July 2000.
7. D.Staiculescu, J.Laskar and E.M.Tentzeris, "Flip-Chip vs. Wirebond", Printed Circuit Design Magazine, pp.12-16, June 2002.
8. M.M.Tentzeris, R.Vyas, V.Lakafosis, T.Le, A.Rida and S.Kim, "Conformal 2D/3D Wireless Modules Utilizing Inkjet Printing and Nanotechnology", ***Cover Story*** in the Microwave Magazine, February 2012.

IV.D: PRESENTATIONS (Selected)

1. Invited Presentation in theWorkshop: "Multiresolution Techniques in Electromagnetics" in the 1998 IEEE AP-S Conference, Atlanta, GA, June 1998.
2. Invited Presentation in the Workshop: "Novel Full-Wave Techniques for HF Circuit Analysis" in the 1999 IEEE IMS (MTT-S) Conference, Anaheim, CA, June 1999.
3. Invited Presentation in the Workshop: "Time-Domain Techniques for Radiation Problems" in the 1999 AP-S Conference, Orlando, FL, July 1999.
4. Invited Presentation in the Short Course: "RF Packaging State-of-the-Art" in the 2000 NEPCONWest Conference, Anaheim, CA, March 2000.
5. Invited Presentations in the Workshops: "Novel Techniques for RF Packaging Design" in the 2000 IEEE-CPMT Conference, Las Vegas, NV, May 2000, 2001 IEEE-CPMT Conference, Orlando, FL, May 2001, 2002 IEEE-CPMT Conference, San Diego, CA, May 2002, 2003 IEEE-CPMT Conference, New Orleans, LA, May 2003 and 2004 IEEE-CPMT Conference, Las Vegas, NV, June 2004.
6. Invited Presentation in theWorkshop: "Time-Domain Techniques for the Design of RF Circuits" in the 2000 IEEE IMS (MTT-S) Conference, Boston, MA, June 2000.
7. Invited Presentations at the National Technical University Athens, Greece in July 2000 ("Wavelets and Electromagnetics") and October 2001 ("RF Packaging:Challenges and Future").
8. Invited Presentation in the Workshop: "High-Density/Multilayer RF Interconnects" in the 2001 IEEE IMS (MTT-S) Conference, Phoenix, AZ, May 2001.

9. Invited Presentation at Tokyo University of Technology, Tokyo, Japan ("RF Packaging Solutions for Wireless Communication Systems"), August 2001.
10. Yamacraw Invited Speaker at Georgia Southern University ("Broadband Wireless Access Hardware"), October 2001.
11. Invited Presentation at Ferdinand-Braun Institut, Berlin, Germany, ("Multigridding Approaches for the Modeling and Optimization of Vertically Integrated RF Modules"), July 2002.
12. Invited Presentation at IMEC Research Center, Leuven, Belgium, ("Challenges in RF/Wireless Packaging"), July 2002.
13. Invited Presentation at Tsinghua University, Beijing, China, ("Novel Solutions for RF/Wireless Multilayer Transceivers"), August 2002.
14. Invited Presentation at the Technical University of Munich, Germany, April 2003.
15. Invited Presentation at University of Illinois, Urbana Champaign, IL, April 2003.
16. Invited Presentation in the Workshop: "Concurrent EM, Mechanical and Thermal Modeling of RF MEMS" in the 2003 IEEE IMS (MTT-S) Conference, Philadelphia, PA, June 2003.
17. Invited Presentation in the Workshop: "Active and Integrated Antennas" in the 2003 IEEE IMS (MTT-S) Conference, Philadelphia, PA, June 2003.
18. Invited Presentation at ASME INTERPACK 2003 Symposium, Maui, HI, July 2003.
19. Invited Presentation to the NEC Headquarters, Kansai, Japan, August 2003.
20. Invited Presentation to the National Semiconductor Headquarters, San Jose, CA, August 2003.
21. Invited Presentation to the Siemens Headquarters, Munich, Germany, ("RF/WiFi/mm-wave Modules: 3D Solutions and Materials"), August 2003.
22. Invited Presentation at the School of Physics, National University of Athens, Greece, ("RF/Wireless Integration: Challenges of the Future"), March 2004.
23. Invited Panelist at the 2004 TI System Hardware Design Symposium and Exhibition, Dallas, TX, May 2004.
24. Invited Presentation in the Workshop: "Active and Integrated Antennas" in the 2004 IEEE IMS (MTT-S) Conference, Fort Worth, TX, June 2004.
25. Invited Presentation at the Electrochemical Society Meeting in Honolulu, HI, October 2004.
26. Invited Presentations to National Semiconductor, Motorola, TI, Infineon, Siemens in 2005-2006.
27. Invited Presentation at UCLA WINMEC Conference, LA, CA, ("Fully Integrated and Packaged RFID's for Health-Related Applications"), October 2006.
28. Invited Presentation at the University of Illinois, Urbana-Champaign, IL, ("3D RF Integration and Packaging Using Conformal Organics"), October 2006.
29. Invited Presentation to the 3M Research Headquarters, Minneapolis, MN, ("Paper-Printed RFID and Wireless Sensors"), November 2006.
30. Invited Presentation to the AAPA Port Operation, Safety and Information Technology Seminar, Jacksonville, FL, ("RFID andWireless Modules: Challenges for Port-Authority Applications"), April 2007.
31. Invited Presentation at the Symposium in Honor of Prof. W.J.R.Hoefer, ("State-of-the-Art of RF/Wireless Packaging"), Technical University of Munich, GERMANY, May 2007.

32. Invited External PhD Committee "Challenging Member"/ Invited Presentation ("State-of-the-Art of RF/Wireless Paper-printed Electronics"), Mid-Sweden University, Sundsvall, SWEDEN, May 2007.
33. Invited Presentation in the Workshop: "RFID and Printed Electronics" in the 2007 IEEE IMS (MTT-S) Conference, Honolulu, HI, June 2007.
34. Invited Presentation at IEEE PIMRC2007, Athens, GREECE, ("RF Reconfigurable Fully-Packaged Modules for Telecom, Multimedia and Sensing Applications"), September 2007.
35. Invited Presentation at IEEE Eurasia RFID, Istanbul, TURKEY, ("Global Item Tracking Using RFID's"), September 2007.
36. Invited Presentation at National Technical University of Athens, GREECE, ("Paper-Based RF Electronics"), December 2007.
37. Invited Presentation at Ain Shams University, Cairo, EGYPT, ("Flexible Wireless Sensors"), May 2008.
38. Invited Presentation at IEEE COMCAS Meeting, Tel Aviv, ("Paper-based Wearable Sensors"), May 2008.
39. Invited Presentation at Port of Savannah E-Tag Roundtable, Savannah, GA, ("RFID's in a Globalized Port Environment"), June 2008.
40. Invited Presentation at MEMSWAVE Conference, Iraklion, GREECE, ("Paper: The Solution for Ubiquitous Wireless Sensors?"), July 2008.
41. Invited Presentation at LAAS 50th Anniversary Conference, Toulouse, FRANCE, ("Inkjet-Printed Electronics and Power Scavenging: The Path for Environmentally-Friendly Cognitive Intelligence"), October 2008.
42. Invited Presentation at IEEE ISAP Symposium, Taipei, Taiwan, ("Wearable Conformal Wireless Sensor Modules"), October 2008.
43. Invited Presentation at USNC/URSI 2009 Meeting, Boulder, CO, January 2009.
44. Invited Presentation at IEEE RAWCON 2009 Conference, San Diego, CA, January 2009.
45. Invited Presentation at the University of Perugia, Perugia, Italy, March 2009.
46. Invited Presentation at Pischiello Research Center, Pischiello, Italy, March 2009.
47. Invited Presentation at EU Comission, Brussels, Belgium, March 2009.
48. Invited Presentation at IEEE RFID 2009, Orlando, FL, April 2009.
49. Invited Presentation at National Semiconductors (NSC), Norcross, GA, May 2009.
50. Invited Presentation at Dublin Institute of Technology (DIT), Dublin, Ireland, June 2009.
51. Invited Presentation at Heriott-Watt University, Edinburgh, June 2009.
52. Invited Presentation at IEEE Geoscience and Remote Sensing Conference 2009 (IGARSS), Cape Town, July 2009.
53. Invited Presentation at University of Galway, Galway, Ireland, July 2009.
54. Invited Presentation at e-Democracy Conference 2009, Athens, Greece, September 2009.
55. Invited Presentation at COST IC803 Action Meeting, Athens, Greece, October 2009.
56. Invited Presentations at CSIRO/ICT Centre, Sydney, Australia; University of New South Wales, Sydney, Australia; Macquarie University/IEEE New South Wales Section, Sydney, Australia; Monash University, Melbourne, Australia, October 2009.

57. Invited Presentation at the IEEE Sensors 2009 Conference, Christchurch, New Zealand, October 2009.
58. Invited Presentations at National University of Singapore (N.U.S.) and at IEEE RFIT 2009, Singapore, Singapore, December 2009.
59. Invited Presentation at IEEE RAWCON 2010 Conference, New Orleans, LA, January 2010.
60. Invited Presentation at NEDO workshop, Hakone, Japan, February 2010.
61. Invited Presentations at the University of Brazilia, University of Sao Paolo, University of Campinas in Brazil, March 2010.
62. Invited Presentation at the University of Wisconsin, Madison, WI, April 2010.
63. Invited Presentation at GTRI-SEAL, Smyrna, GA, April 2010.
64. Invited Presentation at the IFC-SRC Workshop at M.I.T., Cambridge, MA, May 2010.
65. Plenary IEEE DML Presentation at the European Microwave Week 2011, Paris, FRANCE, October 2010.
66. Invited Presentation at the Asian Pacific Microwave Symposium 2011, Yokohama, JAPAN, December 2010.
67. Invited Presentation at the IEEE RWS Symposium 2011, January 2012.
68. Invited Presentation at the PIERS 2011, Marrakech, MOROCCO, March 2011.
69. Invited IEEE DML Presentation at the University of Valetta, MALTA, March 2011.
70. Invited Presentation at the European Antennas and Propagation Symposium (EuCAP 2011), April 2011.
71. Invited/Featured Presentation at the URSI General Assembly 2011, Istanbul, TURKEY, August 2011.
72. Invited Presentation at the 8th IDGA Military Antennas Coference, Washington, DC, September 2011.
73. ***Plenary Talk*** at the 2011 IEEE Conference on RFID and Technical Applications (RFID-TA), Barcelona, SPAIN, September 2011.
74. ***Invited Presentation*** at IEEE MTT Dallas Section, 2011.
75. Invited Presentation at the 2011 European Microwave Conference, Manchester, UK, October 2011.
76. Invited Presentation at the 2011 CLASTECH Conference, El Segundo, CA, October 2011.
77. Invited Presentation at the IEEE Sensors 2011, Athlone, IRELAND, October 2011.
78. Invited DML Presentation at Tyndall Institute, Cork, IRELAND, November 2011.
79. Invited Presentation at 2011 IDTEX Conference on Energy Harvesting and Wireless Sensor Networks, Boston, MA, November 2011.
80. Invited Presentation at the 2011 ST Energy Harvesting Council, Aix-en-Provence, FRANCE, December 2011.
81. Invited DML Talk at the 2011 IEEE International RF and Microwave Conference (RFM 2011), Seremban, MALAYSIA, December 2011.
82. Invited Presentation at the IEEE WiSNet Symposium 2012, Santa Clara, CA, January 2012.
83. ***Keynote talk*** at the International School on Internet of Things (IoT), Aveiro, PORTUGAL, January 2012.
84. Invited Presentation at the 2012 Winter Enrichment Program (WEP) 2012, Jeddah, Saudi Arabia, January 2012.
85. Invited Presentation at the NSF/SRC/SFI Joint meeting, IRELAND, March 2012.

86. ***Keynote Prsesentation*** at the IEEE APEMC2012 Conference ("Millimeter-Wave and Nanotechnology: The path to "green" electronics?"), SINGAPORE, May 2012.
87. ***Plenary Talk*** at the 2012 Radio Conference, MAURITIUS, September 2012.
88. Invited DML Presentation at University of Alberta, Edmonton, CANADA, February 2013.
89. ***Panelist*** in the "Wireless Power" panel in IEEE Wireless Symposium, Beijing, CHINA, April 2013.
90. Invited Presentation at the 60th Anniversary NJUST Workshop on RF and Microwave/mmW Technologies and Applications, Nanjing, CHINA, September 2013.
91. ***Plenary Talk*** at the 2013 IEEE RFID-TA Conference, Malaysia, September 2013.
92. ***Plenary Talk*** at the 2013 PACO Conference, Gardanne/Aix-en-Provence, FRANCE, October 2013.
93. Invited presentation at IWS2014 Symposium, Xi'an, CHINA, March 2014.
94. Invited presentation at MIKON 2014 Conference, Gdansk, POLAND, June 2014.
95. Invited DML talks in Poland (Krakow, Gdansk, Warsaw), June 2014.
96. Invited DML Talks in Indonesia (Jakarta, Yogyakarta and Bali), September 2014.
97. Invited DML Talks in Peru (Lima, Arequippa, Chiclayo and Puno), March 2015.
98. Invited DML/CRFID-DL talk on Internet of Things, Alexandria, VA, March 2016.
99. Invited Presentation at University of Minnesota ECE Colloquium, March 2016.
    Invited Presentation at the 2016 AFRL Workshop on RF Reconfigurable Electronics, Arlington, VA, May 2016.
100. Invited Talk at Physics Colloquium, Georgia Southern University, Statesboro, GA, August 2016.
101. Keynote University Speaker at Altair/Georgia Tech Symposium, November 2016.
102. Invited IEEE MTT-S Webinar Speaker on "3D Printed RF Circuits", March 2017.
103. Invited Talks at NTU-MediaTek Workshops 2017 and 2018, SINGAPORE, January 2017 and January 2018.
104. Invited Talk at ICNC 2018 Conference, Maui, HI, March 2018.
105. Invited Talk at CMOC 2018 Symposium, Orange, CT, April 2018.
106. Invited Talk at MITRE Symposium on Additive Manufacturing of Antennas and EM Structures, McLean, VA, April 2018.
107. Invited talk at IEEE ETCMOS 2018 Conference, Whistler, CANADA, May 2018.
108. Invited Talk at 2018 TechConnect World Innovation Conference, Anaheim, CA, May 2018.
109. Invited Tutorial on Inkjet-Printed RFID-Enabled Wireless Sensors, Ottawa, CANADA, August 2018.
110. Invited SRC/GRC e-Workshop on Printed RF Elecgtronics, October 2018.
111. Distinguished Guest Lecture at ARIA European School of Antennas 2018, Beirut, LEBANON, October 2018.
112. ***Keynote Presentation*** at the IEEE WiSEE Conference 2018, Huntsville, AL, December 2018.
113. Invited Talk at ICNC 2019 Conference, Honolulu, HI, March 2019.
114. Invited Talk at University of Hawaii, Honolulu, HI, March 2019.
115. Invited Talk at the University of Alabama, Tuscaloosa, AL, April 2019.
116. Invited Talk at the University of Southern California, LA, April 2019.
117. ***Keynote Presentation*** at the 7th International Symposium on Deformation Characteristics of Geomaterials (IS-Glasgow 2019), Glasgow, UK, June 2019.

118. Invited Talk at American University of Beirut, Beirut, LEBANON, September 2019.
119. Invited Talk at 2019 EMN Meeting on Flexible Electronics, Dubrovnik, CROATIA, October 2019.
120. Invited Talk at the Workshop "Get Started with Flexible Hybrid Electronics", Fraunhofer EMFT, Munich, GERMANY, October 2019.
121. Invited Talk at European School of Antennas-ARIA, Nice, FRANCE, November 2019.
122. Invited Talk at Fraunhofer IHP, Frankfurt (Oder), GERMANY, December 2019.
123. Invited Talk at TEDxEmory 2020, February 2020.
124. Invited Talk at MIT Horizons Series 2020, June 2020.
125. Invited IEEE CRFID Distinguished Lecture, IEEE PES Kerala Chapter, INDIA, June 2020.
126. ***Keynote Talk*** at Mediterranean Microwave Symposium (MMS) 2020, MOROCCO, December 2020.
127. Invited Talk at Virtual Vertical and Topical IoT Summit at IEEE Radio and Wireless Week – RWW 2021, USA, January 2021.
128. ***Keynote Talk*** at 6th ICREGA 2021, UAE, February 2021.
129. Invited Talk at IEEE International Conference on Flexible Printable Sensors and Systems (FLEPS) 2021 Conference, June 2021.
130. Invited Presentation at 32nd Annual Electronics Packaging Symposium, Binghamton University, NY, USA, September 2021.
131. Invited Presentation at IRTG Energy Conversion System Series, FIU, GERMANY, September 2021.
132. Invited Presentation at Space Solar Power Workshop, IEEE WiSee 2021, USA, October 2021.
133. Invited Lecture at US Government Seminar on Smart Materials and Intelligent Systems (SMIS), The MITRE Corporation, October 2021.
134. ***Keynote Speech***, International Emerging Technologies Competition (IETC) 2021, Universiti Teknology PETRONAS, MALAYSIA, October 2021.
135. ***Keynote Speaker***, SBMO/IEEE International Microwave and Optoelectronics Conference (IMOC 2021), BRAZIL, October 2021.
136. Invited Lecture at Korean Institute of Electromagnetic Engineering and Science (KIEES 2022) Tutorial on Backscattering Communication, KOREA, February 2022.
137. Invited Lecture at International Workshop on Antenna Technology 2022 (iWAT 2022), Dublin, IRELAND, May 2022.
138. ***Plenary Speaker,*** IEEE SpliTech International Conference on Smart and Sustainable Technologies 2022, Split and Bol, CROATIA, July 2022.
139. ***Keynote Speaker***, International Workhop on Antenna Technologies in Shenzhen University (IWAT-SZU 2022), Shenzhen, PR China, July 2022.
140. ***Plenary Speaker,*** EMN Eurosensors 2022 Conference, Leuven, BELGIUM, September 2022.
141. Invited Talk at ICNC 2023 Conference, Honolulu, HI, February 2023.
142. ***Keynote Speaker,*** IEEE MTT-S Latin America Microwave Conference (LAMC-2023), San Jose, COSTA RICA, December 2023.

IV.E: OTHER SCHOLARLY ACCOMPLISHMENTS – PATENTS (more pending)

1. R.Li, E.M.Tentzeris and J.Laskar, "Multiband Broadband Planar Wire Antennas for Wireless Communication Handheld Terminals", US Patent 6,917,339.
2. M.G.Allen, Y.-K.Yoon, J.-W.Park, Y.-H.Joung, F.Cros, I.Papapolymeroy, E.M.Tentzeris and B.Pan, "Surface Micromachined Millimeter-Scale RF System and Method", US Patent 7,196,666.
3. E.Gebara, J.Laskar and E.M.Tentzeris, "Method and system for antenna interference cancellation", US Patent 7,366,244, US Patent 7,729,341 and EP Patent 1,687,929.
4. D.Thompson, G.Wang, N.D.Kingsley, I.Papapolymerou, E.M.Tentzeris, R.Bairavasubramanian, G.DeJean and R.L.Li, "Multilayer Electronic Component Systems and Methods of Manufacture", US Patent 7,834,808.
5. E.Gebara, A.J.Kim, J.Laskar, A.Stelliga and E.M.Tentzeris, "Method and System for Reducing Signal Interference", US Patent 7,522,883.
6. J.S.Lee, P.D.Schmalenberg, A.Rida, R.L.Li and E.M.Tentzeris, "Microwave Antenna", US Patent 8,325,092.
7. E.Gebara, A.J.Kim, J.Laskar, A.Stelliga and E.M.Tentzeris, "Reducing signal interference", US Patent 8,503,940.
8. J.S.Lee, P.D.Schmalenberg, A.Rida, R.L.Li and E.M.Tentzeris, "Antenna with tapered array", US Patent 8,743,016.
9. A.Rida, L.Yang, A.Margomenos and M.Tentzeris, "Three-dimensional array antenna on a substrate with enhanced backlobe suppression for mm-wave automotive applications", US Patent 8,786,496.
10. S.Georgakopoulos, E.Tentzeris and B.Cook, "Origami folded antennas", US Patent 9,214,722.
11. M.Tentzeris and B.Cook, « Additively deposited electronic components and methods for producing the same », US Patent 9,343,233.
12. S.Georgakopoulos and M.Tentzeris, « Misalignment Insensitive Wireless Power Transfer », US Patent 9,406,435
13. S.Georgakopoulos, M.Tentzeris and O.Jonah, « Multi-band and broadband wireless power transfer through embedded geometric configurations », US Patent 9,466,418
14. X.Yi, C.Cho, B.Cook, Y.Wang, M.Tentzeris and R.T.Leon, « Frequency doubling antenna sensor for wireless strain and crack sensing », US Patent 9,506,848.
15. H.Griguer, M.M.Tentzeris, M.Drissi, « Device for Protecting the Human Body and Equipment Against Electromagnetic Radiation », International Patent WO2018236202.
16. S.Georgakopoulos and M.Tentzeris, « Wireless power transfer through embedded geometric configurations », US Patent 9,799,443.
17. J.Hester and E.M.Tentzeris, « Inkjet Printed Flexible Van Atta Array Sensor », US Patent 10,511,100.
18. J. Bito and E.M.Tentzeris, « Hybrid Energy Harvesting Systems and Devices Incorporating the Same », US Patent 10,566,844.
19. N.Arora, G.D.Abowd, M.Gupta, D.Osorio, S.F.Shahmiri, T.E.Starner, Y.-C.Wang, Z.Wang, Z.L.Wang, S.L.Zhang, P.McAughan, Q.Xue, D.Bansal, R.Bahr and E.Tentzeris, « Thin and flexible self-powered vibration transducer employing triboelectric nanogeneration », US Patent 10,932,063.
20. A.Eid, J.G.D.Hester and M.Tentzeris, « High gain and large beamwidth rotman-lens-based and mm-wave energy harvester systems and associated methods », WIPO (PCT) W02020223486A1
21. J.G.D.Hester and E.M.Tentzeris, « System for Sensing Backscatter Tag Communications from Retrodirective Antenna Arrays », US Patent 11,474,233.

V: SERVICE
V.A. PROFESSIONAL CONTRIBUTIONS
V.A.1. Conference Leadership (Selected)

- Co-Chair in 2023 IEEE WPTCE Conference, San Diego, CA, June 2023.
- Multi-Society Panel Session Organizer and Chair in 2023 IEEE IMS Conference, San Diego, CA, June 2023.
- Co-Chair in 2019 IEEE Antenas and Propagation Conference (AP-S), Atlanta, GA, July 2019.
- ADCOM Member of IEEE CRFID, 2017-present.
- Panel Session Organizer and Chair in 2011 IEEE RFID-TA Conference, Barcelona, SPAIN, September 2011.
- Technical Program Chair in 2008 IEEE IMS hold in Atlanta, GA, June 2008.
- Technical Program Co-Chair in 2009 ACES Conference hold in Monterey, CA, March 2009.
- Interactive Forum Chair in 2009 IEEE APS Conference, Charleston, SC, May 2009.
- Panel Session Organizer in 2010 IEEE ECTC Conference, Las Vegas, NV, June 2010.
- Member of the Technical Program Committee (TPC) of the annual IEEE International Microwave Symposium (IEEE-IMS), June 2001-present.
- Member of the Technical Program Committee (TPC) of the annual IEEE Antennas and Propagation Symposium (IEEE-APS), January 2001-present.
- Member of the Technical Program Committee (TPC) of the annual IEEE Electronic Components and Technology Conference (IEEE-ECTC), June 2003-present.
- Member of the Technical Program Committee (TPC) of the annual IEEE Vehicular Technology Conference (IEEE-TC), September 2006-September 2009.
- Member of the Technical Program Committee (TPC) of the annual European Microwave Conference (EuMC), January 2008-present.
- Member of the International Advisory Committee of 2007 PIERS Conference held in Pisa, ITALY, March 2007.
- Member of the International Program Committee of annual IASTED International WOC Conference held in Banff, CANADA, June 2004-present.
- Member of the Technical Program Committee of 2007 IEEE Conference on Wireless Rural and Emergency Communications (WRECOM), Rome, ITALY, October 2007.
- Conference Chairman of 2005 IEEE CEM-TD held in Atlanta, GA, in September 2005.
- Member of the International Advisory Committee of 2007 IEEE CEM-TD Conference held in Perugia, ITALY, in October 2007.
- Technical Program Co-Chair in ARFTG Conference, Atlanta, GA, December 1999.
- Vice-Chair of the IEEE Components Packaging, and Manufacturing Technology Society (IEEE-CPMT) Technical Committee TC16 (RF Subcommittee), January 2000-2005.
- Chair: Numerous Special/Regular Sessions in IEEE IMS, RAWCON, APS, APMC and EuMW Conferences

- Organizer of 20+ Workshops/Short Courses in IEEE IMS, APS, EuMW, APMC, RWS.
- Founder and organizer of numerous panels and special sessions on mmID (millimeter-wave RFID's) and millimeter-wave automotive radars.

V.A.2. Other Conference Activities

- Member of the Student Paper Contest Committee, 2000 IEEE-IMS Conference, Boston, MA, June 2000.
- Member of the Student Paper Contest Committee, 2010 IEEE RFID-TA Conference, Guangzhou, CHINA, June 2010.
- Member of the Student Paper Contest Committee, 2011 IEEE RFID-TA Conference, Barcelona, SPAIN, September 2011.
- Member of the Student Paper Contest Committee, 2012 IEEE RWS Symposium, Santa Clara, CA, January 2012.
- Member of the Steering Committee and the Student Paper Contest Committee, 1998 IEEE-AP Conference, Atlanta, GA, June 1998.

V.A.3. Editorial/Reviewer Activity

- Member of the Editorial Board, Proceedings of IEEE, 2019-2022
- Guest Editor for the Special Issue of Proceedings of IEEE ("Energy Harvesting Systems") to be published in November 2014.
- Associate Editor for the IEEE Transactions on Microwave Theory and Techniques from June 2007-June 2009.
- Guest Editor for the Special Issue of IEEE Transactions on Microwave Theory and Techniques ("RFID Architectures") published in May 2009.
- Associate Editor for the ETRI Journal from May 2009-May 2010.
- Associate Editor at the ACES Society Newsletter from April 2001-April 2005.
- Associate Editor at the International Journal of Antennas and Propagation (IJAP) from 11/1/2006-11/1/2007.
- Guest Editor for the Special Issue on RFID's of the Proceedings of European Microwave Association published in December 2007.
- Guest Editor for the Special Issue of International Journal of Antennas and Propagation ("Conformal Antennas") to be published in December 2012.
- Guest Editor for International Journal of Numerical Modeling for 2006.
- Member of the NSF Proposal Reviewers' Panels of 5/30-5/31/00, 5/17-5/18/01, 4/15-4/16/02, 6/15-6/16/02, 12/15-12/16/03, 10/21-10/22/04, 5/15-5/16/06, 11/24-11/25/08, 6/7-6/8/10, 1/5-1/6/12, 3/13, 10/27-10/28/14, 10/25/16, 3/29-3/30/17, 2/20-2/21/18, 5/1-5/2/18, 10/23-10/24/18, 4/15-4/16/20
- Member of the Proposal Reviewers' Committee for NSERC (Canada), ISF (Israel), CRDF (U.S.A.), DFG (Germany), Singapore Research Foundation (Singapore), Hong Kong Research Committee (China), KAUST (Saudi Arabia), State of Indiana Research Committee (U.S.A.), State of S.Carolina Research Committee (U.S.A.), EPSRC (U.K.), ANR (France), Austrian Science Fund-FWF (Austria).
- *Reviewer:* IEEE Transactions on Microwave Theory and Techniques (54 papers, 1996-present), IEEE Transactions on Antennas and Propagation (36 papers, 1997-present), The International Journal of Microcircuits and Electronic Packaging (3 papers, 1998 present), IEEE Microwave and Guided Wave Letters/ Microwave and Wireless Components Letters (39 papers, 1998-present), IEEE

Transactions on Electromagnetic Compatibility (8 papers, 2000-present), International Journal of Numerical Modeling (12 papers, 2000-present), International Journal of Electronics (2 papers, 2001-present), IEEE Transactions on Advanced Packaging (58 papers, 2002-present), Journal of the Optical Society of America (5 papers, 2000-present), IEEE Transactions on Components and Packaging (6 papers, 2002-present), IEEE Transactions on Signal Processing (3 papers, 2002-present), IEEE Electron Devices Letters (4 papers, 2003-present), IEEE Transactions on Electron Devices (2 papers, 2005-present), International Journal of RF and Microwave Computer-Aided Engineering (10 papers, 2003-present), IEEE/ASME Journal on MEMS (3 papers, 2004-present), SPIE OE Journal (2 paper, 2004-present), IEEE Transactions on Circuits and Systems I, (3 paper, 2004-present) ETRI Journal (10 papers, 2006-present), Radio Science Journal (5 papers, 2004-present), Measurement Science and Technology Journal (3 papers, 2007-present), IEEE Sensors Journal (2 papers, 2007-present), International Journal of Microwave Science and Technology (1 paper, 2007-present), IEEE Microwave Magazine (1 paper, 2007-present), IEEE/OSA Journal of Lightwave Technology (2 papers, 2007-present), IEEE Design and Test of Computers (2 papers, 2007-present), IEEE Antennas and Propagation Magazine (1 paper, 2007-present), Journal of Electronic Imaging (1 paper, 2007-present).

V.A.4. Professional Society Activity

- IEEE, Fellow, (MTT, AP, CPMT Societies), 2010-present.
- IEEE CRFID Committee/Council (IEEE Inter-Society Committee on RFID Technologies) Founding Member (2008) and Secretary-Treasurer since 2011.
- IEEE MTT TC-24 (RFID) Founder-Chair, 2009-present.
- IEEE MTT TC-25 (Nanotechnology) Founder-Member, 2010-present.
- IEEE MTT TC-26 (Wireless Power Transfer) Founding Member, 2011-present
- IEEE MTT Representative at the IEEE CRFID Committee, 2009-2015.
- URSI, Member (Commission D), 1999-present.
- PIERS, Fellow, 2007-present.
- IEEE MTT-15 Committee, Member, 2006-2008.
- IEEE CPMT TC-16 Committee, Member, 2002-present [Vice-Chair:2003].
- European Microwave Association (EuMA), Associate Member, 2005-present.
- Technical Chamber of Greece, Member, 1993-present.
- Chairman of the IEEE MTT/AP Atlanta Chapter from 1/1/02-12/31/02.
- Member of the Board Committee of the IEEE MTT/AP Atlanta Chapter from 1999-2002.

V.A.5. Professional Collaborations/Technical Advising

• Northrop, Rockwell-Collins, Raytheon, Motorola, Intel, IBM, Google, Lockheed, National Semiconductors, Kyocera, Asahi, NEDO, FHWA, Rogers, Siemens, Lucent, Hitachi, Intracom, Samsung-Techwin, ETRI, Manheim, Port of Savannah, Avery-Denison, 3M, Excelletron, Infineon, Dimatix, DELL, Microsoft Research Center, Toyota TEMA, NASA Glenn/Lewis Center, Qualcomm, Eaton Corporation, Samsung, Honeywell

• University of Michigan, Ann Arbor, MI 9/92-5/98

Graduate Research Assistant (GSRA) with the Radiation Laboratory.

• Jet Propulsion Laboratory (J.P.L.), Pasadena, CA 9/92-6/94

Collaborator on Optimization of Novel Waveguide Probes.
• National Technical University of Athens, GREECE 9/90-8/92
Research Assistant with the Microwaves Laboratory.

V.B. CAMPUS CONTRIBUTIONS

- Associate Director for RFID and Sensors Research at Georgia Electronic Design Center (GEDC), 8/1/05-12/09.
- Associate Director for RF Research at Georgia Tech Packaging Research Center (PRC), 8/1/03-8/1/05.
- Chair of ECE Electromagnetics Technical Interest Group, 2011-2012.
- Member of the ECE RPT Committee, Fall 2011.
- Active member of the Georgia Tech ORS Program, 9/2008-Present.
- Member of the ECE Graduate Recruitment Committee, 9/1/00-8/31/02.
- Leader of the Novel Integration Techniques Subthrust of the Broadband Hardware Access Thrust of the Yamacraw Initiative of the State of Georgia, 1/1/00-8/1/05.
- Member of the ECE Research Committee, 9/98-8/00, 9/02-5/2004.
- Member of the ECE Education / Research Technology Transfer Committee, 9/2004-5/2005.
- Member of the ECE Graduate Student Recruitment Committee, 9/2005-5/2006.
- Member of the ECE Undergraduate Committee, 9/2006-5/2009.
- Member of the ECE Undergraduate Curriculum Committee, 9/2009-5/2011.
- Head of the RF Alliance of Georgia Tech Packaging Research Center (PRC), 1/1/01-12/31/06.
- Member of Georgia Tech Broadband Institute (GTBI), 9/1/99-5/2004.
- Member of M.Sc. Thesis (21), Ph.D. Qualifying Exam (19), Ph.D. Thesis Proposal (62) and Ph.D. Thesis Defense (65) Committees

VI. EXPERT WITNESS/LITIGATION EXPERIENCE

- LG vs. NFCT IPR: 2014 [Fish & Richardson P.C.] / 2 patents ***(all claims accepted by IPTO)***
- HTC vs. NFCT IPR: 2014-2015 [Perkins Coie LLP]; deposed on 4/30/15, 5/1/15, 9/30/15 and 11/19/15 / 2 patents ***(all claims accepted by IPTO)***
- HID vs. Morphotrust: 2017-2018 [Finnegan]; deposed on 5/25/18 / 4 IPRs ***(all claims accepted by IPTO)***
- DeCurtis vs Carnival Cruises: 2021 [Quinn Emmanuel]; deposed on 10/25/21
- 5 Additional IPR Cases
- References: Ai Bing (Perkins Coie), Miguel Bombach (Perkins Coie), Won Yoon (Fish & Richardson), David Seastrunk (Finnegan), Patrick Schmidt (Quinn Emmanuel)