

Curriculum Vitae of Maurizio Bozzi

Nationality: Italian

Date of Birth: 1st June 1971

Languages: Italian (*native speaker*)
English (*fluent*)
Spanish (*fluent*)
German (*basic*)

Present Position: Associate Professor of Electromagnetic Fields

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Maurizio Bozzi was born in Voghera, Italy, on June 1, 1971.

He received the MSc degree in Electronic Engineering and the PhD in Electronics and Computer Science from the University of Pavia, Pavia, Italy, in 1996 and 2000, respectively.

In 2002 he joined the Department of Electronics (now Department of Electrical, Computer and Biomedical Engineering), University of Pavia, Italy, where he is now an Associate Professor of Electromagnetic Fields (with Full Professor habilitation). He currently teaches the courses of “Antennas and Propagation” and “Computational Electromagnetics” in the graduate course of Electrical Engineering at the School of Engineering of the University of Pavia.

He is also a Guest Professor of the Tianjin University (China) for the term 2015-2017.

Research activities and positions

He held research positions in various universities and research centers worldwide:

- From December 1996 to September 1997 he was a Guest Researcher at the Technische Universitaet Darmstadt, Darmstadt, Germany, performing a theoretical and experimental activity on quasi-optical frequency multipliers for submm-wave frequencies.
- From October 2001 to January 2002 he was a Post-doc Fellow at the Universitat de Valencia, Valencia, Spain, working on the analysis of dielectric-resonator filters.
- Moreover, he was an Invited Professor at the École Polytechnique de Montréal, Montréal, Québec, Canada, from November to December 2002, from June to July 2004, from June to July 2005, from June to August 2006, and from June to August 2007. His activity mainly concerned the modeling and design of novel integrated transmission lines (substrate integrated waveguides, substrate integrated slab waveguides, non-radiative dielectric waveguides), and of ultra-wideband six-port receivers.
- In May 2009 he was a visiting scientist at the Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), in Castelldefels, Barcelona, Spain. His activity was related to the development of novel substrate integrated waveguide components.
- In November 2009 he was an Invited Professor at the Department of Physics, Faculty of Sciences of Tunis, Tunisia. The major aim was the development of a new cooperation in the field of modeling and design of substrate integrated waveguide components.

Major research achievements

His main research activities concern the development of numerical methods for the electromagnetic modeling of microwave and millimeter-wave components.

In the last years, his research activity has mainly focused on topics related to substrate integrated waveguides (SIW) and frequency selective surfaces (FSS).

The most significant results in the field of SIW structures are:

- the development of a numerical technique, based on the BI-RME method, for the wideband modeling of SIW components, and for the automatic derivation of equivalent circuit models;
- the implementation of compact and broadband SIW transmission lines, including the ridge SIW, the substrate integrated slab waveguide (SISW), and the substrate integrated coaxial line (SICL);
- the development of several innovative components in SIW technology, including the first active antenna appeared in the literature and a steerable active array with no need of phase shifters.
- the implementation of SIW components and antennas based on non-conventional substrates, including paper, plastic, textile, and 3D printing, with the aim to develop low-cost and eco-friendly wireless systems and sensor networks for the future Internet of Things (IoT).

The major results in the field of FSS are:

- the development of a numerical code for the modeling and design of inductive and capacitive FSS, based on the MoM/BI-RME method, currently adopted by the European Space Agency (ESA) and by some companies for the design of dichroic mirrors;
- the design of the main dichroic mirrors of ESA, installed in ESA ground stations belonging to the DSA (Deep Space Antennas) network;
- the development of FSS operating in the mm-wave frequency range (up to 2 THz), both in all-metal configuration and based on a silicon dielectric substrate.

Moreover, he was also involved in research activities in the fields of reflectarrays, electromagnetic bandgap structures, waveguide components, and microwave printed and integrated circuits. Prof. Bozzi was involved in national and European research projects, and was a consultant for telecommunication companies and for the European Space Agency.

Teaching activities

Maurizio Bozzi has been teaching several courses at the Faculty of Engineering of the University of Pavia. More specifically, he taught the following Courses as official assignment:

- Course of “Numerical Techniques for Electromagnetics”, Master Degree of “Electronics Engineering” (official assignment) – 2005-now (12 years)
- Course of “Antennas and Propagation”, Master Degree of “Electronics Engineering” (official assignment) – 2011-now (6 years)
- Course of “Computational Electromagnetics and Photonics”, PhD of “Electrical, Electronics, and Computer Engineering” (official assignment) – 2008-2009 (1 year)

and he made support teaching (blackboard exercises and seminars) in the following Courses:

- Course of “Electromagnetic Fields”, Bachelor Degree of “Electronics and Telecommunication Engineering” (support teaching) – 2002-2010 (8 years)
- Course of “Microwaves”, Bachelor Degree of “Electronics and Telecommunication Engineering” (support teaching) – 2002-2011 (9 years)
- Course of “Circuit Theory”, Bachelor Degree of “Computer Engineering” (support teaching) – 2003-2005 (2 years).

Moreover, he was the scientific advisor of several PhD and Master Students:

- Advisor of 6 PhD Students
- Advisor of more than 20 Master Thesis
- Co-advisor of more than 30 Master Thesis.

Awards

Maurizio Bozzi was the recipient of the following awards:

- September 2000 - Microwave Engineering Center for Space Applications (MECSA) Award for the best paper presented by a young researcher at the 2000 Italian Conference on Electromagnetics (XIII RiNEm).
- August 2002 - Philips Award for the Best Young Scientist Paper at the XXVII General Assembly of URSI (International Union of Radio Science), held in Maastricht (The Netherlands).
- August 2002 - Young Scientist Award for attending the XXVII General Assembly of URSI (International Union of Radio Science), held in Maastricht (The Netherlands).
- June 2012 - Recipient of the First Prize in the Contest for Innovative Ideas - Confederation of Italian industries (Unione Industriali) for the project "Autonomous and eco-friendly sensor networks".
- Aug. 2014 - 2014 Premium Award for Best Paper in Electronics Letters: R. Moro, S. Agneessens, H. Rogier, and M. Bozzi, "Wearable textile antenna in substrate integrated waveguide technology," Electronics Letters, Volume 48, Issue 16, 2012, pp. 985-987.
- July 2015 – 2015 Premium Award for Best Paper in IET Microwaves, Antennas & Propagation: S. Kim, B. Cook, T. Le, J. Cooper, H. Lee, V. Lakafosis, R. Vyas, R. Moro, M. Bozzi, A. Georgiadis, A. Collado, M.M. Tentzeris, "Inkjet-printed antennas, sensors and circuits on paper substrate," IET Microwaves, Antennas & Propagation, Volume 7, Issue 10, July 2013, p. 858–868.
- December 2015 - Best Paper Award at the 15th Mediterranean Microwave Symposium (MMS2015): C. Tomassoni, L. Silvestri, M. Bozzi, and L. Perregrini, "Novel Substrate Integrated Waveguide Filter Based on Mushroom Resonators," 15th Mediterranean Microwave Symposium (MMS2015), Lecce, Italy, Nov. 30-Dec. 2, 2015.

Moreover, with his students he received the following awards:

- April 2010 - Best Student Award at the 4th European Conference on Antennas and Propagation (EuCAP 2010), held at Barcelona, Spain.
- May 2010 - Second Award in the Best Student Paper Competition at the 27th International Review of Progress in Applied Computational Electromagnetics (ACES 2010), held at Tampere, Finland.
- April 2011 - Honorable mention in the Best Student Paper Competition at the 5th European Conference on Antennas and Propagation (EuCAP 2011), held in Rome, Italy.
- January 2016 - Best Student Paper Award at the 2016 IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet2016), held in Austin, TX, USA.
- November 2016 - Second Award in the Best Student Paper Competition at the 16th Mediterranean Microwave Symposium (MMS2016), Abu Dhabi, UAE.

Invited Talks

Maurizio Bozzi was invited to give seminar talks and short courses at several conferences, universities, and research centers, as listed below:

- May 2017 - Tutorial at the 21st IEEE Workshop on Signal and Power Integrity (SPI 2017), Baveno, Italy.
- Dec. 2016 - Invited talk at the Asia Pacific Microwave Conference (AMPC2016), New Delhi, India.
- Nov. 2016 - Short course at the Gdansk University of Technology, Gdansk, Poland.
- Nov. 2016 - Invited talk at the Assemblée Générale d'IEEE MTT-France, Grenoble, France.
- Sept. 2016 - Invited seminar talks at the Department of Physics, Faculty of Sciences of Tunis, Tunisia.
- Aug. 2016 - Invited talk at the International Workshop on IoT at the Tianjin University, Tianjin, China.
- July 2016 - Invited seminar at the University of Macau, Macau.
- May 2016 - Invited seminar at the Nanjing University of Science and Technology (NJUST), Nanjing, China.

- May 2016 - Invited seminar at the Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, China.
- May 2016 - Invited talk at the 21st International Conference on Microwaves, Radar and Wireless Communications (MIKON 2016), Krakow, Poland.
- April 2016 - Invited lecture at the International Spring School on Electromagnetics and emerging technologies for pervasive applications: Internet of Things, Health and Safety, Villa Griffone, Pontecchio Marconi, Bologna, Italy.
- March 2016 - Short course at the Tianjin University, Tianjin, China.
- February 2016 - Invited lecture at the Second International BioSense Workshop, Novi Sad, Serbia.
- December 2015 - Invited talk at the Asia Pacific Microwave Conference (AMPC2015), Nanjing, China.
- November 2015 - Invited seminar talk at the Universidad Miguel Hernández de Elche, Elche, Spain.
- November 2015 - Short course at the Gdansk University of Technology, Gdansk, Poland.
- August 2015 - Invited talk at the Nanjing University of Science and Technology (NUST), Nanjing, China.
- June 2015 - Invited talk at the International Workshop on IoT, Tianjin University, Tianjin, China.
- June 2015 - Invited talk at the Center of Ocean Information Engineering of the Tianjin University, Qingdao, China.
- February 2015 - Invited talk at the BioSense Center, University of Novi Sad, Novi Sad, Serbia.
- November 2014 - Short course at the Gdansk University of Technology, Gdansk, Poland.
- September 2014 - Invited talk at INTELECT 2014 Workshop, Ovronnaz, Switzerland.
- August 2014 - Invited seminar talk at the Chinese University of Hong Kong (CUHK), Hong Kong.
- August 2014 - Invited talk at the 35th Progress In Electromagnetics Research Symposium (PIERS 2014), Guangzhou, China.
- August 2014 - Invited talk at the XXXI General Assembly of the International Union of Radio Science (URSI GA 2014), Beijing, China.
- August 2014 - Plenary keynote presentation at the 15th International Conference on Electronic Packaging Technology (ICEPT 2014), Chengdu, China.
- April 2014 - Invited seminar talk at the University of Cantabria, Santander, Spain.
- March 2014 - Invited seminar talk at the Tianjin University, Tianjin, China.
- January 2014 - Invited talk at the 2014 IEEE Topical Meeting on Wireless Sensors and Sensor Networks (WISNET 2014), Newport Beach, California, USA.
- October 2013 – Guest Lecture at the University of Ghent, Belgium.
- August 2013 - Invited talk at the Progress in Electromagnetics Research Symposium (PIERS2013), Stockholm, Sweden.
- July 2013 - Invited seminar talks at the Department of Physics, Faculty of Sciences of Tunis, Tunis, Tunisia.
- April 2013 - Invited seminar talks at the Universidad Miguel Hernández de Elche, Elche, Spain.
- December 2012 - Invited seminar talk at the National Taiwan University of Science and Technology, Taipei, Taiwan.
- December 2012 - Invited talk at the 2012 Asia-Pacific Microwave Conference (APMC2012), (European Microwave Association Special Session), Kaohsiung, Taiwan.
- September 2012 - Invited talk at the IEEE MTT-S International Microwave Workshop Series on Millimeter Wave Wireless Technology and Applications (IMWS 2012), Nanjing, China.
- August 2012 - Invited plenary-session talk at the International Conference on Mathematical Methods in Electromagnetic Theory (MMET 2012), Kharkiv, Ukraine.
- June 2012 - Invited talk at the workshop on "Towards Development of Smarter Substrate Integrated Waveguide Components and Advanced Fabrication Methodologies", International Microwave Symposium (IMS 2012), Montreal, Quebec, Canada, June 17-22, 2012.
- June 2012 - Invited lecture at the Training School on Energy-aware RF Circuits and Systems Design, Villa Griffone, Pontecchio Marconi, Bologna, Italy.
- April 2012 - Invited seminar talk at the Universidad de Malaga, Malaga, Spain.
- April 2012 - Invited seminar talk at the Universidad Miguel Hernández de Elche, Elche, Spain.

- April 2012 - PhD course on “Substrate Integrated Waveguide (SIW) Technology” at the Universidad Politécnica de Cartagena, Cartagena, Spain.
- March 2012 - Invited plenary-session keynote speech at the International Conference on Information Processing and Wireless Systems (IP-WiS 2012), Sousse, Tunisia.
- March 2012 - Invited seminar talk at the Department of Physics, Faculty of Sciences of Tunis, Tunis, Tunisia.
- January 2012 - Invited lecture at the Winter School on Technology Challenges for the Internet of Things, Aveiro, Portugal.
- June 2011 - Invited lecture at the Summer 2011 Training School on RF/Microwave System Design for Sensor and Localization Applications, Castelldefels, Barcelona, Spain.
- March 2011 - Invited seminar talk at the Universidad Miguel Hernández de Elche, Elche, Spain.
- June 2010 - PhD course on “The BI-RME Method” at the Universidad Politécnica de Cartagena, Cartagena, Spain.
- April 2010 - Invited seminar talk at the Universidad Miguel Hernández de Elche, Elche, Spain.
- November 2009 - Invited seminar talks at the Department of Physics, Faculty of Sciences of Tunis, Tunis, Tunisia.
- May 2009 - Invited seminar talk at the Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), Castelldefels (Barcelona), Spain.
- January 2009 - Invited seminar talk at the Universidad Miguel Hernández de Elche, Elche, Spain.
- January 2009 - Invited seminar talk at the Universidad Politécnica de Cartagena, Cartagena, Spain.
- January 2009 - Invited seminar talks at the Universitat de València, València, Spain.
- September 2007 - Invited plenary-session keynote speech at the International Conference on Telecommunication in Modern Satellite, Cable and Broadcasting Services (TELSIKS 2007), Nis, Serbia.
- August 2007 - Invited talk at the Workshop on Six-port Technologies and Applications, International Symposium on Signals, Systems, and Electronics (ISSSE 2007), Montréal, Québec, Canada.
- July 2007 - Invited talk at the URSI International Symposium on Electromagnetic Theory (EMTS 2007), Ottawa, Canada.
- May 2006 - Invited seminar talk at the Universidad Miguel Hernández de Elche, Elche, Spain.
- August 2005 - Invited talk at the Progress in Electromagnetics Research Symposium (PIERS 2005), Hangzhou, China.
- June 2004 - Invited seminar talk at the École Polytechnique de Montréal, Montréal, Québec, Canada.
- April 2004 - Invited talk at the IX Workshop on Microwave Engineering: Metamaterials and Special Materials for Electromagnetic and TLC Applications, Rome, Italy.
- October 2003 - Invited talk at the Progress in Electromagnetics Research Symposium (PIERS 2003), Honolulu, Hawaii, USA.
- September 2003 - Invited talk at the International Conference on Antenna Theory and Techniques (ICATT03), Sevastopol, Crimea, Ukraine.
- August 2003 - Invited talk at the SPIE Annual Meeting 2003, Infrared Spaceborne Remote Sensing Conference, San Diego, California, USA.
- March 2002 - Invited seminar talk at the Technische Universitaet Darmstadt, Darmstadt, Germany.
- January 2002 - Invited seminar talk at the Department of Applied Physics of the University of Valencia, Valencia, Spain.
- August 2000 - Invited talk at the SPIE Annual Meeting 2000, Terahertz and Gigahertz Electronics and Photonics Conference, San Diego, California, USA.
- January 2000 - Invited seminar talk at the Department of Molecular and Optical Physics of the University of Freiburg, Freiburg, Germany.

Technical Activities

Maurizio Bozzi had key positions in international scientific societies:

- Elected Member of the Administrative Committee of the IEEE Microwave Theory and Techniques Society (MTT-S) for term 2017–2019
- Secretary of MTT-S for year 2016
- Co-Chair of the Meeting and Symposia Committee of MTT-S for year 2017.
- Member of the Publication Committee of MTT-S (2014-2016)
- Member of the Education Committee of MTT-S (responsible for the Graduate Student Challenge) (2012-now).
- Member of the General Assembly (GA) of the European Microwave Association (EuMA), representative of Group 3 (Italy, San Marino, Vatican City) (2014-2016).
- Founding Member and Governing Board Member of the Topical Group MAGEO (Microwaves in Agriculture, Environment and Earth Observation) of EuMA.

He was the organizers of international conference and PhD Schools:

- General Chair of the IEEE MTT-S International Microwave Workshop Series-Advanced Materials and Processes (IMWS-AMP 2017), Pavia, Italy, 20-22 Sept. 2017.
- Organizer of the International Summer School on “Microwave Systems for the IoT”, promoted by the European Microwave Association (EuMA) in the framework of the European Courses on Microwaves (EuCoM), Pavia, Italy, 7-9 September 2016.
- General Conference Chair of the inaugural edition of the IEEE International Conference on Numerical Electromagnetic Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2014), Pavia, Italy, 14-16 May 2014.
- Organizer of the International Summer School on “Emerging Technologies for mm-Wave Passive Components”, promoted by the European Microwave Association (EuMA) in the framework of the European Courses on Microwaves (EuCoM), Pavia, Italy, 16-18 September 2013.
- General Chairman of the IEEE MTT-S International Microwave Workshop Series on “Millimeter Wave Integration Technologies”, Sitges, Spain, 15-16 Sept. 2011.

Maurizio Bozzi was the Guest Editor of some special issues of international journals:

- Special Issue "MTT-S Structure, Activities, Opportunities, and Goals," IEEE Microwave Magazine (Vol. 17, No. 9, Sept. 2016).
- Special Issue "Millimetre Wave System, Circuit and Antenna Integration Challenges for Broadband Everywhere," IET Microwaves, Antennas & Propagation (2016).
- Mini-Special Issue "2014 IEEE International Conference on Numerical Electromagnetic Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2014)," IEEE Transactions on Microwave Theory and Techniques (Vol. 1, No. 63, Jan. 2015).
- Special Issue "RF/Microwave Communication Subsystems for Emerging Wireless Technologies," IET Microwaves, Antennas & Propagation (Vol. 5, No. 8, June 2011).

Scientific Societies

He is a Member of the following scientific societies:

- Senior Member of the Institute of Electrical and Electronics Engineers (IEEE),
- Member of the European Microwave Association (EuMA),
- Member of the Società Italiana di Elettromagnetismo (SIEM).

Scientific paper reviewer

Maurizio Bozzi serves as

- Associate Editor of the IEEE Microwave and Wireless Components Letters (2013- now)
- Associate Editor of the IET Microwaves, Antennas and Propagation (2014-now)
- Associate Editor of the IET Electronics Letters (2015-now).

Moreover, Prof. Bozzi is a member of the Editorial Board of some scientific journals:

- Member of the Editorial Board of the International Journal of RF and Microwave Computer-Aided Engineering.
- Member of the Editorial Board of the Radioengineering Journal.
- Member of the Editorial Board of the International Journal of Microwave Science and Technology.

He has served as a reviewer for several journals, including:

- IEEE Transactions on Antennas and Propagation,
- IEEE Transactions on Microwave Theory and Techniques,
- IEEE Antennas and Wireless Propagation Letters,
- IEEE Microwave and Wireless Components Letters,
- IET Microwaves, Antennas and Propagation,
- EuMA International Journal of Microwave and Wireless Technologies,
- International Journal for Numerical Methods in Engineering,
- International Journal of RF and Microwave Computer-Aided Engineering,
- ACES Journal,
- Radioengineering Journal,
- International Journal of Microwave Science and Technology.

Chairman and Member of Scientific Committees

Prof. Bozzi has been involved in several technical and scientific committees:

- Member of the Technical Program Committee of the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2018), Reykjavik, Iceland, August 2018.
- Member of the Technical Program Committee of the IEEE MTT-S Radio and Wireless Week 2018 (RWW2018), Anaheim, CA, 14-17 January 2018.
- Member of the Technical Program Committee of the IEEE MTT-S International Microwave and RF Conference (IMaRC2017), Ahmedabad, India, 11-13 December 2017.
- Co-Chair of the Antennas and Microwave Technologies Subcommittee at the 35th Progress in Electromagnetics Research Symposium (PIERS), Singapore, 19-22 November 2017.
- Member of the International Technical Committee of the 2017 17th IEEE International Conference on Communication Technology (ICCT 2017), Chengdu, China, Oct 27-30, 2017.
- Member of the Technical Program Committee of the 5th Annual IEEE International Conference on Wireless for Space and Extreme Environments (WISEE 2017), Montréal, QC, Canada, 10-12 October 2017.
- Member of the Technical Program Committee of the European Microwave Week (EuMW2017), Nuremberg, Germany, 8-12 October 2017.

- Member of the Technical Program Committee of the Symposium on Recent Advances in Communication Theory, Information Theory, Antennas and Propagation (CIAP 2017), Manipal, Karnataka, India, 13-16 September 2017.
- Member of the Technical Program Committee of the 17th IEEE International Conference on Ubiquitous Wireless Broadband (ICUWB 2017), Salamanca, Spain, 12-15 September, 2017.
- Member of the Technical Program Committee of the 13th International Conference on Wireless and Mobile Communications (ICWMC 2017), Nice, France, July 23-27, 2017.
- Member of the Technical Program Committee of the 21st International Conference (ELECTRONICS 2017), Palanga, Lithuania, 19-21 June 2017.
- Member of the Technical Program Committee of the 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON), Kyiv, Ukraine, May 29–June 2, 2017.
- Conference Liaison Chair and Member of the Executive Committee of the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2017), Sevilla, Spain, May 17-19, 2017.
- Member of the Technical Program Committee of the 18th Conference on Microwave Techniques (COMITE 2017), Brno, Czech Republic, April 19-21, 2017
- Member of the Technical Program Committee of the 37th IEEE International Conference on Electronics and Nanotechnology (ELNANO-2017), Kyiv, Ukraine, April 18-20, 2017.
- Member of the Technical Program Committee of the 3rd International Conference on Microwave and Terahertz Technology (ICMTT 2017), Bangkok, Thailand, March 18-20, 2017.
- Member of the Technical Program Committee of the IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet2017), Phoenix, AZ, January 15-18, 2017.
- Member of the Technical Program Reviewers Committee of the 2016 IEEE MTT-S Latin America Microwave Conference (LAMC), Puerto Vallarta, Mexico, December 8-10, 2016.
- Member of the Paper Review Committee of the 2016 Asia Pacific Microwave Conference (APMC2016), New Delhi, India December 5-9, 2016.
- Member of the Best Paper Award Committee of the 2016 Asia Pacific Microwave Conference (APMC2016), New Delhi, India December 5-9, 2016.
- Member of the Technical Program Committee of the The Twelfth International Conference on Wireless and Mobile Communications (ICWMC 2016), Barcelona, Spain, November 13-17, 2016.
- Co-Chair of the International Advisory Committee of the 2016 IEEE International Conference on Ubiquitous Wireless Broadband (ICUWB2016), Nanjing, China, October 16-19, 2016.
- Member of the Technical Program Committee of the European Microwave Week (EuMW2016), London, UK, 3-7 October 2016.
- Member of the Technical Program Committee of the 2016 IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE 2016), Aachen, Germany, September 26-29, 2016.
- Member of the Advisory Committee of the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2016), Beijing, China, July 27-29, 2016.
- Member of the Technical Program Review Committee (TPRC) of the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2016), Beijing, China, July 27-29, 2016.
- Member of the Best Student Paper Award Committee of the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2016), Beijing, China, July 27-29, 2016.
- Co-Chair of Technical Program Committee (TPC) of the IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP 2016), Chengdu, China, July 20-22, 2016.
- Member of the Best Student Paper Award Committee of the IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP 2016), Chengdu, China, July 20-22, 2016.
- Chair of the Graduate Student Challenge at the International Microwave Symposium (IMS 2016), San Francisco, CA, USA, May 22-27, 2016.

- Member of the International Advisory Committee of the 2016 IEEE International Workshop on Electromagnetics (iWEM2016), Nanjing, Jiangsu, China, May 16-18, 2016.
- Member of the Best Student Paper Award Committee of the 2016 IEEE International Workshop on Electromagnetics (iWEM2016), Nanjing, Jiangsu, China, May 16-18, 2016.
- Member of the Technical Program Committee of the IEEE 36th International Conference on Electronics and Nanotechnology (ELNANO-2016), Kiev, Ukraine, April 19-21, 2016.
- Member of the Technical Program Committee of the 2nd International Conference on Microwave and Terahertz Technology (ICMTT2016), Beijing, China, March 2-4, 2016.
- Member of the Technical Program Committee of the IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet2016), Austin, TX, USA, Jan. 24–27, 2016. Member of the Technical Program Committee of the IEEE MTT-S International Microwave and RF Conference (IMaRC 2015), Hyderabad, India, December 10-12, 2015.
- Member of the Technical Program Committee of the 2015 Asia-Pacific Microwave Conference (APMC2015), Nanjing, China, Dec. 6–9, 2015.
- Member of the Technical Program Committee of the Mediterranean Microwave Symposium (MMS2015), Lecce, Italy, November 30-December 2, 2015.
- Member of the Technical Program Committee of the Eleventh International Conference on Wireless and Mobile Communications (ICWMC 2015), St. Julians, Malta, October 11-16, 2015.
- Member of the Technical Program Committee of the European Microwave Week (EuMW2015), Paris, France, 5-9 September 2015.
- Jury Member of Student Challenge at the European Microwave Week (EuMW2015), Paris, France, 5-9 September 2015.
- Member of the Technical Program Committee of the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2015), Aug. 11-14, 2015, Ottawa, Canada.
- Member of the Advisory Committee of the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2015), Aug. 11-14, 2015, Ottawa, Canada.
- Jury Member of the Student Paper Competition at the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2015), Aug. 11-14, 2015, Ottawa, Canada.
- Chair of the Graduate Student Challenge at the International Microwave Symposium (IMS 2015), Phoenix, Arizona, USA, May 17-22, 2015.
- Member of the Technical Program Committee of the IEEE 35th International Conference on Electronics and Nanotechnology (ELNANO-2015), Kiev, Ukraine, April 21-24, 2015.
- Member of the Technical Program Committee of the 14th Conference on Microwave Techniques (COMITE 2015), Pardubice, Czech Republic, April 21-23, 2015.
- Member of the Technical Program Committee of the 2015 International Conference on Microwave and Terahertz Technology (ICMTT2015), Suzhou, China, March 18-20, 2015.
- Member of the Technical Program Committee of IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet2015), San Diego, CA, USA, January 25–28, 2015.
- Member of the Technical Program Committee of the 44th European Microwave Conference (EuMC 2014), Rome, Italy, October 5-10, 2014.
- Co-Chair of the Antennas and Microwave Technologies Subcommittee at the 35th Progress in Electromagnetics Research Symposium (PIERS), Guangzhou, China, 25-28 August, 2014.
- Member of the Technical Program Committee of the Tenth International Conference on Wireless and Mobile Communications (ICWMC 2014), Seville, Spain, June 22-26, 2014.
- Member of the Technical Program Committee of the IEEE 34th International Conference on Electronics and Nanotechnology (ELNANO-2014), Kyiv, Ukraine, April 15-18, 2014.
- Member of the Technical Program Committee of IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet2014), Newport Beach, CA, USA, January 19-22, 2014.
- Member of the Technical Program Committee of the 43rd European Microwave Conference (EuMC 2013), Nuremberg, Germany, October 6-10, 2013.

- Jury Member of the Student Challenge at the 43rd European Microwave Conference (EuMC 2013), Nuremberg, Germany, October 6-10, 2013.
- Co-Chair of the Antennas and Microwave Technologies Subcommittee at the 34th Progress in Electromagnetics Research Symposium (PIERS), Stockholm, Sweden, Aug 12-15, 2013.
- Member of the Technical Program Committee of the Ninth International Conference on Wireless and Mobile Communications (ICWMC 2013), Nice, France, July 21-26, 2013.
- Chair of the Graduate Student Challenge at the International Microwave Symposium (IMS 2013), Seattle, WA, USA, June 2-7, 2013.
- Member of the Technical Program Committee of the IEEE XXXIII International Conference on Electronics and Nanotechnology (ELNANO-2013), Kyiv, Ukraine, April 16-19, 2013.
- Member of the Technical Program Committee of the 13th Conference on Microwave Techniques (COMITE 2013), Pardubice, Czech Republic, April 16-18, 2013
- Member of the Technical Program Committee of the International Conference on Information Processing and Wireless Systems (IP-WiS 2013), Djerba, Tunisia, March 21-24, 2013.
- Member of the Technical Program Committee of IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet2013), Austin, Texas, USA, January 20-23, 2013.
- Member of the Technical Program Committee of the European Microwave Conference (EuMC 2012), Amsterdam, The Netherlands, October 30-November 1, 2012.
- Co-Chair of Technical Program Committee (TPC) of the IEEE MTT-S International Microwave Workshop Series on Millimeter Wave Wireless Technology and Applications (IMWS2012), Nanjing, China, September 18-20, 2012.
- Member of the Scientific Committee of the Workshop on Applications of Smart Sensors and Wireless Sensor Networks, Valencia, Spain, July 8-12, 2012.
- Member of the Technical Program Committee of the Eighth International Conference on Wireless and Mobile Communications (ICWMC 2012) Venice, Italy, June 24-29, 2012
- Chair of the Graduate Student Challenge at the International Microwave Symposium (IMS 2012), Montreal, Quebec, Canada, June 17-22, 2012.
- Member of the Technical Program Committee of the International Conference on Information Processing and Wireless Systems (IP-WiS 2012), Sousse, Tunisia, March 16-18, 2012.
- Member of the Conference Prize Committee (CPC) at the European Microwave Conference (EuMC 2011), Manchester, UK, 9-14 October 2011.
- Chairman of the Technical Program Committee of the IEEE International Conference on RFID-Technologies and Applications, Sitges, Barcelona, Spain, on September 15-16, 2011.
- Member of the Technical Program Committee of the 11th Mediterranean Microwave Symposium (MMS 2011), Hammamet, Tunisia, September 08-10, 2011.
- Member of the Technical Program Committee of the 15th Conference on Microwave Techniques (COMITE 2010), Brno, Czech Republic.
- Member of the Technical Program Committee of the International Symposium on Signals, Systems, and Electronics (ISSSE 2007), Montréal, Québec, Canada.
- Member of the reviewer board of the European Microwave Conference since 2003.

Session organizer and chairman

Prof. Bozzi has organized various workshops and short courses at international conferences:

- the Workshop "Towards 5G: New Trends in Microwave Filters" at the International Microwave Symposium (IMS 2017), Honolulu, Hawaii, USA, June 4-9, 2017.
- the Workshop "Emerging Transmission Line Technologies for Interconnect, Components, Circuits and Systems" at the International Microwave Symposium (IMS 2017), Honolulu, Hawaii, USA, June 4-9, 2017.
- the Workshop "Recent Progresses in mmW Multilayer Circuit and System Design and Packaging (MCM/SoP)" at the International Microwave Symposium (IMS 2017), Honolulu, Hawaii, USA, June 4-9, 2017.

- the Workshop "Advanced Mm-Wave Three-Dimensional/Multilayer MCM/SoP and Printing Technologies" at the International Microwave Symposium (IMS 2016), San Francisco, CA, USA, May 22-27, 2016.
- the Workshop "Recent Advancements on Millimeter-wave Heterogeneous and Multilayer MCM Integrations" at the International Microwave Symposium (IMS 2015), Phoenix, Arizona, USA, May 17-22, 2015.
- the Workshop "New Trends in Substrate Integrated Circuits (SICs)" at the 44th European Microwave Conference (EuMC 2014), Rome, Italy, October 5-10, 2014.
- the Workshop "Nanoelectromagnetics of advanced materials for microwave-to-THz applications" at the 44th European Microwave Conference (EuMC 2014), Rome, Italy, October 5-10, 2014.
- the Workshop "Current Trends In Mm-Wave Integrated Circuits And Integration Techniques" at the International Microwave Symposium (IMS 2014), Tampa Bay, Florida, USA, June 1-6, 2014.
- the Workshop "Substrate Integrated Waveguide Component and System" at the International Wireless Symposium (IWS 2014), Xi'an, China, March 24-26, 2014.
- the Short Course "Substrate Integrated Waveguides" at the 43rd European Microwave Conference (EuMC 2013), Nuremberg, Germany, October 6-11, 2013.
- the Workshop on "Integration and Technologies for mm-wave Sub-systems" at the IEEE MTT-S International Microwave Symposium 2012, which will be held in Montréal, Canada, June 17-22, 2012;
- the Workshop on "Substrate Integrated Waveguide (SIW) Technology and Applications" at the European Microwave Conference (EuMC 2011), held in Manchester, UK, October 9-14, 2011;
- the Workshop on "Substrate Integrated Circuits (SICs)" at the IEEE MTT-S International Microwave Symposium, held in Anaheim, CA, USA, on May 22, 2010.

Moreover, he was the organizer and/or chair of several session at international conferences:

- Organizer and Chair of the Special Session "SIW Filters and Interconnections" at the 2017 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2017), Sevilla, Spain, May 17-19, 2017.
- Organizer and Chair of the Special Session "Modeling and Design of Microwave Filters " at the 2017 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2017), Sevilla, Spain, May 17-19, 2017.
- Chair of the Sesson "Additive Manufacturing and Technological Approaches for Passive Components" at the 46th European Microwave Conference (EuMC2016), London, UK, Oct. 3–7, 2016.
- Organizer and Chair of the Special Session "Design of SIW Components, Circuits and Systems" at the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2016), July 27-29, 2016, Beijing, China.
- Organizer and Chair of the Special Session "Modeling and Design of Filters" at the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2016), July 27-29, 2016, Beijing, China.
- Organizer and Chair of the Special Session "Advanced 3-D printing fabrication" at the IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP 2016), Chengdu, China, July 20-22, 2016.
- Chair of the Sesson "Forum on Printing and Future Microwave" at the IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP 2016), Chengdu, China, July 20-22, 2016.
- Organizer and Chair of the Special Session "Substrate Integrated Waveguide (SIW) Technology" at the 2016 IEEE International Workshop on Electromagnetics (iWEM2016), Nanjing, Jiangsu, China, May 16-18, 2016.
- Chair of Session "Microwave Circuits and Systems" at the 2016 IEEE International Workshop on Electromagnetics (iWEM2016), Nanjing, Jiangsu, China, May 16-18, 2016.

- Chair of Session "Multiport Structures and Phase Shifters" at the 21st International Conference on Microwave, Radar and Wireless Communications (MIKON2016), Krakow, Poland, May 9-11, 2016.
- Chair of Session "Substrate Integrated Circuits" at the Asia Pacific Microwave Conference (AMPC2015), Nanjing, China, Dec. 6-9, 2015.
- Organizer and Chair of the Focus Session "Microwaves in Agriculture, Environment and Earth Observation (MAGEO)" at the 45th European Microwave Conference (EuMC 2015), Paris, France, 5-9 September 2015.
- Chair of Session "Novel Modal Techniques" at the 45th European Microwave Conference (EuMC 2015), Paris, France, 5-9 September 2015.
- Organizer and Chair of the Special Session "EM Modeling and Design of SIC/SIW and IC Packages" at the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO2015), Ottawa, Canada, Aug. 11-14, 2015.
- Chair of the Special Session "Numerical Analysis and Optimization of Substrate Integrated Waveguide Circuits" at the IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO2015), Ottawa, Canada, Aug. 11-14, 2015.
- Organizer and Chair of the Special Session "SIW/SIC components and systems at millimeter waves" at the 8th Global Symposium on Millimeter-Waves (GSMM 2015), Montreal, Quebec, Canada, May 25~27, 2015.
- Organizer and Chair of Focus Session "Recent Progresses in Monolithic and Multilayer/Planar Integrated Circuits and Components" at the 35th Progress In Electromagnetics Research Symposium (PIERS 2014), Guangzhou, China, August 25-28, 2014.
- Organizer and Chair of Focus Session "Novel Materials and Technologies for Microwave Components" at the 35th Progress In Electromagnetics Research Symposium (PIERS 2014), Guangzhou, China, August 25-28, 2014.
- Chair of Session "Microwave and Power electronics Packaging" at the 15th International Conference on Electronic Packaging Technology (ICEPT 2014), Chengdu, China, August 12-15, 2014.
- Chair of Session "Antennas and Passive Devices" at the International Wireless Symposium (IWS 2014), Xi'an, China, March 24-26, 2014.
- Chair of Session "Advanced Localization and Sensing Technologies" at the 2014 IEEE Radio Wireless Week (RWW), Newport Beach, CA, USA, January 19–22, 2014.
- Organizer and Chairman of Focused Session "Microwaves in Agriculture, Environment and Earth Observation (MAGEO)" at the 43rd European Microwave Conference (EuMC 2013), Nuremberg, Germany, October 6-11, 2013.
- Chairman of Session "Numerical Modeling and Optimization" at the 43rd European Microwave Conference (EuMC 2013), Nuremberg, Germany, October 6-11, 2013.
- Organizer and Chairman of Special Session "Paper-based Microwave Circuits and Antennas" at the 34th Progress in Electromagnetics Research Symposium (PIERS 2013), Stockholm, Sweden, August 12-15, 2013.
- Chairman of Focus Session "Advances in Millimeter-Wave and THz Circuit, Techniques and Applications" at the 34th Progress in Electromagnetics Research Symposium (PIERS 2013), Stockholm, Sweden, August 12-15, 2013.
- Organizer and Chairman of Session "Gap waveguides and SIW antennas" at the 7th European Conference on Antennas and Propagation, Gothenburg, Sweden, April 8-12, 2013.
- Chairman of Session "Active Components and Systems for Phased Arrays" at the European Microwave Conference (EuMC 2012), Amsterdam, The Netherlands, October 30-November 1, 2012.
- Chairman of Session "Progress in Passive Components and Circuits" at the European Microwave Conference (EuMC 2012), Amsterdam, The Netherlands, October 30-November 1, 2012.
- Chairman of Session "WED1" at the IEEE MTT-S International Microwave Workshop Series on Millimeter Wave Wireless Technology and Applications (IMWS2012), Nanjing, China, September 18-20, 2012.
- Chairman of Session "Waveguide Circuits" at the International Conference on Mathematical Methods in Electromagnetic Theory (MMET 2012), Kharkiv, Ukraine, August 28–30, 2012.
- Chairman of Session "Transitions and Substrate Integrated Waveguides" at the European Microwave Conference (EuMC 2011), Manchester, UK.

- Chairman of Session "EM Numerical Techniques and Applications" at the European Microwave Conference (EuMC 2010), Paris, France.
- Chairman of Session "Integrated components" at the European Microwave Conference (EuMC 2010), Paris, France.
- Organizer and Chairman of the Special Session "Efficient Microwave Subsystem Design and Optimization" at the 26th International Review of Progress in Applied Computational Electromagnetics (ACES 2010), Tampere, Finland.
- Organizer and Chairman of the Focused Session "Focused Session on Substrate Integrated Waveguides" at the European Microwave Conference (EuMC 2009), Rome, Italy.
- Chairman of Session "Transitions and Interconnects" at the European Microwave Conference (EuMC 2008), Amsterdam, The Netherlands.
- Chairman of Session "Antennas" at the International Symposium on Signals, Systems, and Electronics (ISSSE 2007) Montréal, Québec, Canada.
- Chairman of Session "Beam Forming" at the International Symposium on Signals, Systems, and Electronics (ISSSE 2007) Montréal, Québec, Canada.
- Chairman of Session "Reflector Antennas" at the IEEE Antennas and Propagation International Symposium (APS 2007), Honolulu, HI, USA.
- Organizer and Chairman of the Special Session "Six Port Technology in Software Radio Wireless Communication Systems" at the 23rd Annual Review of Progress in Applied Computational Electromagnetics (ACES 2007), Verona, Italy.
- Chairman of Session "Frequency Selective Surfaces" at the IEEE Antennas and Propagation International Symposium (APS 2005), Washington, DC, USA.
- Organizer and Chairman of Special Session "Dielectric Resonator Filters" at the Progress in Electromagnetics Research Symposium (PIERS 2004), Pisa, Italy.
- Organizer and Chairman of Special Session "Periodic Structures for Space Applications" at the Progress in Electromagnetics Research Symposium (PIERS 2003), Honolulu, Hawaii, USA.
- Chairman of Session "Printed Reflectarray Antennas" at the IEEE Antennas and Propagation International Symposium (APS 2003), Columbus, Ohio, USA.
- Chairman of Session "Passive Microwave and Millimeterwave Devices" at the European Microwave Conference (EuMC 2003), Munich, Germany.
- Organizer of the "Workshop on Frequency Selective Surfaces" (Pavia, Italy) on March 17, 2000.

Member of PhD Committees

Maurizio Bozzi was appointed as a Committee Member for several PhD Committees:

- Ángela María Coves Soler, Universitat de Valencia (Spain), 2005
- Ángel Antonio San Blas Oltra, Universidad Politécnica de Valencia (Spain), 2008
- Declercq Frederick, Universiteit Gent (Belgium), 2011
- Miguel Ángel Sánchez Soriano, Universidad Miguel Hernández de Elche (Spain), 2012
- Ahmad Alhazzoury, Institut National Polytechnique de Toulouse (France), 2013
- "Electrical Engineering and Telecommunications", Politechnic University of Torino (Italy), 2014
- Peter Vanveerdeghem, Universiteit Gent (Belgium), 2015
- Sam Agneessens, Universiteit Gent (Belgium), 2015
- Muna Hajj Yahya, Politechnic University of Torino (Italy), 2015.

Moreover, he was an External Evaluator for the following PhD Committees:

- Jordi Gil Raga, Universidad Politécnica de Valencia (Spain), 2009
- Juan Sebastián Gómez Díaz, Universidad Politécnica de Cartagena (Spain), 2011
- Manuel F. Jiménez Nogales, Universidad Politécnica de Cartagena (Spain), 2012
- María García Viguera, Universidad Politécnica de Cartagena (Spain), 2012
- Abdul Ali Babar, Tampere University of Technology (Finland), 2013
- Alejandro Javier Martínez Ros, Universidad Politécnica de Cartagena (Spain), 2015
- Elena Abdo Sánchez, Universidad de Malaga (Spain), 2015.

Member of Project Evaluation Committees

He was invited to evaluate national projects by the following organizations:

- Georgia National Science Foundation (GNSF), 2010-2013
- Icelandic Research Fund (IRF), 2010-2012
- Romanian National Council for Scientific Research, 2011

Moreover, he was appointed as a reviewer for the ESA External Fellowship Programme, 2004.

Scientific Publications

Prof. Bozzi authored the Encyclopedia Chapter on "Periodic Structures" in the Wiley Encyclopedia of RF and Microwave Engineering (2005) and co-edited the book "Periodic Structures" (2006).

Moreover, he is the co-author of the book

Ramesh Garg, Inder Bahl and Maurizio Bozzi,
Microstrip Line and Slotlines (3rd Edition),
Artech House, May 2013.

He authored more than 100 journal papers and more than 270 conference papers.

Publications of Maurizio Bozzi

JOURNAL PAPERS

1. M. Shaalan, M. Bozzi, J. Weinzierl, K. Beilenhoff, G. Conciauro, H. Brand, and H. L. Hartnagel, "A 300 GHz Quasi-Optical Schottky Frequency Doubler," *Intern. Journal of Infrared and Millimeter Waves*, Vol. 18, No. 12, pp. 2277–2293, Dec. 1997.
2. P. Arcioni, G. Conciauro, L. Perregrini, M. Bozzi, M. Shaalan, and H. L. Hartnagel, "Numerical Modeling of Quasi-Optical Frequency Multipliers," in *Millimeter and Submillimeter Waves IV*, Proceedings of SPIE, Vol. 3465, pp. 10–19, Nov. 1998.
3. P. Arcioni, M. Bozzi, G. Conciauro, and L. Perregrini, "Design and Optimization of Quasi-Optical Frequency Multipliers," *Intern. Journal of Infrared and Millimeter Waves*, Vol. 20, No. 5, pp. 913–928, May 1999.
4. M. Bozzi and L. Perregrini, "Efficient analysis of thin conductive screens perforated periodically with arbitrarily shaped apertures," *Electronics Letters*, Vol. 35, No. 13, pp. 1085–1087, 24 June 1999.
5. P. Arcioni, M. Bozzi, G. Conciauro, L. Perregrini, H. L. Hartnagel, and M. Shaalan, "An Efficient Algorithm for the Analysis and Optimization of Quasi-Optical Frequency Multipliers," *Atti della Fondazione Giorgio Ronchi*, No. 3–4, pp. 367–373, May–Aug. 1999 (*invited paper*).
6. M. Bozzi, L. Perregrini, J. Weinzierl, and C. Winnewisser, "Analysis of Frequency Selective Surfaces for Quasi-Optical Applications," in *Terahertz and Gigahertz Photonics*, Proceedings of SPIE, Vol. 3795, pp. 322–328, Nov. 1999.
7. P. Arcioni, M. Bozzi, L. Perregrini, and A. R. Ruiz Laso, "Array Modeling for mm-wave Active Integrated Antennas," *International Journal of Infrared and Millimeter Waves*, Vol. 21, No. 4, pp. 563–575, April 2000.
8. P. Arcioni, M. Bozzi, M. Bressan, and L. Perregrini, "A Novel CAD Tool for the Wideband Modeling of 3D Waveguide Components," *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 10, No. 3, pp. 183–189, May 2000.
9. M. Bozzi, L. Perregrini, J. Weinzierl, and C. Winnewisser, "Design, Fabrication and Measurement of Frequency Selective Surfaces," *Optical Engineering*, Vol. 39, No. 8, pp. 2263–2269, Aug. 2000.
10. M. Bozzi and L. Perregrini, "Frequency Selective Surfaces in the GHz and THz Region: Analysis and Experimental Results," in *Terahertz and Gigahertz Electronics and Photonics II*, Proceedings of SPIE, Vol. 4111, pp. 141–151, Dec. 2000 (*invited paper*).
11. M. Bozzi and L. Perregrini, "Analysis and Optimization of mm-Wave Frequency Multipliers by a Hybrid Genetic Algorithm/Harmonic Balance Technique," *Microwave and Optical Technology Letters*, Vol. 28, No. 4, pp. 268–271, February 20, 2001.
12. M. Saglam, M. Bozzi, A. Megej, M. Rodriguez-Girones, L. Perregrini, and H. L. Hartnagel, "Characterization of Heterostructure-Barrier-Varactors for Frequency Multiplication," *International Journal of Infrared and Millimeter Waves*, Vol. 22, No. 3, pp. 429–438, March 2001.
13. M. Bozzi, L. Perregrini, J. Weinzierl, and C. Winnewisser, "Efficient Analysis of Quasi-Optical Filters by a Hybrid MoM/BI-RME Method," *IEEE Transactions on Antennas and Propagation*, Vol. AP-49, No. 7, pp. 1054–1064, July 2001.
14. M. Bozzi and L. Perregrini, "Frequency Selective Surfaces in the mm-Wave Range: Theoretical and Experimental Results," *Atti della Fondazione Giorgio Ronchi*, Vol. LVI, No. 4–5, pp. 613–621, July–Oct. 2001 (*invited paper*).
15. M. Bozzi and L. Perregrini, "Analysis of Nonlinear Circuits by a Hybrid Genetic Algorithm/Harmonic Balance Technique," *Atti della Fondazione Giorgio Ronchi*, Vol. LVI, No. 4–5, pp. 853–858, July–Oct. 2001 (*invited paper*).
16. M. Bozzi, L. Perregrini, A. Alvarez Melcon, M. Guglielmi, G. Conciauro, "MoM/BI-RME Analysis of Boxed MMICs with Arbitrarily Shaped Metallizations," *IEEE Trans. on Microwave Theory & Techniques*, Vol. MTT-49, No. 12, pp. 2227–2234, Dec. 2001.

17. P. Arcioni, M. Bozzi, M. Bressan, G. Conciauro, and L. Perregrini, "Frequency/Time-Domain Modeling of 3D Waveguide Structures by a BI-RME Approach," *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields (Special Issue on Network Methods in Field Modelling)*, Vol. 15, No. 1, pp. 3–21, Jan. 2002 (*invited paper*).
18. M. Bozzi and L. Perregrini, "Analysis and Design of Frequency Selective Surfaces by the MoM/BI-RME Method—A Review," in *Recent Research Developments in Electronics*, Transworld Research Network, Ed., pp. 19-36, June 2002 (*invited paper*).
19. M. Bozzi, G. Conciauro, and L. Perregrini, "On the Evaluation of Modal Coupling Coefficients by Contour Integrals," *IEEE Trans. on Microwave Theory & Techniques*, Vol. MTT-50, No. 7, pp. 1853–1855, July 2002.
20. M. Bozzi, G. Manara, A. Monorchio, and L. Perregrini, "Automatic Design of Inductive FSSs by Using the Genetic Algorithm and the MoM/BI-RME Analysis," *IEEE Antennas and Wireless Propagation Letters*, Vol. 1, No. 4, pp. 91–93, 2002.
21. P. Besso, M. Bozzi, L. Perregrini, L. Salghetti Drioli, and W. Nickerson, "Deep Space Antenna for Rosetta Mission: Design and Testing of the S/X-Band Dichroic Mirror," *IEEE Trans. on Antennas and Propagation*, Vol. AP-51, No. 3, pp. 388–394, March 2003.
22. V. E. Boria, M. Bozzi, F. Bruni, S. Cogollos, G. Conciauro, B. Gimeno, and L. Perregrini, "Efficient Analysis of In-Line Waveguide Filters and Frequency Selective Surfaces with Stepped Holes," *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 13, No. 4, pp. 306–315, July 2003.
23. M. Bozzi, S. Germani, and L. Perregrini, "Performance Comparison of Different Element Shapes Used in Printed Reflectarrays," *IEEE Antennas and Wireless Propagation Letters*, Vol. 2, pp. 219–222, 2003.
24. M. Bozzi and L. Perregrini, "Analysis of Multilayered Printed Frequency Selective Surfaces by the MoM/BI-RME Method," *IEEE Trans. on Antennas and Propagation*, Vol. AP-51, No. 10, pp. 2830–2836, Oct. 2003.
25. M. Bozzi and L. Perregrini, "Analysis and Design of Periodic Structures by the MoM/BI-RME Method," in *Infrared Spaceborne Remote Sensing XI*, Proceedings of SPIE, Vol. 5152, pp. 115–129, Dec. 2003 (*invited paper*).
26. P. Arcioni, M. Bozzi, M. Bressan, G. Conciauro, and L. Perregrini, "Fast Optimization, Tolerance Analysis, and Yield Estimation of H-/E-Plane Waveguide Components with Irregular Shapes," *IEEE Trans. on Microwave Theory & Techniques (Special Issue on Electromagnetics-Based Optimization of Microwave Components and Circuits)*, Vol. MTT-52, No. 1, pp. 319–328, Jan. 2004.
27. M. Bozzi, S. Germani, and L. Perregrini, "A Figure of Merit for Losses in Printed Reflectarray Elements," *IEEE Antennas and Wireless Propagation Letters*, Vol. 3, pp. 257–260, 2004.
28. M. Bozzi, S. Germani, L. Minelli, L. Perregrini, and P. de Maagt, "Efficient Calculation of the Dispersion Diagram of Planar Electromagnetic Band-Gap Structures by the MoM/BI-RME Method," *IEEE Transactions on Antennas and Propagation (Special Issue on Artificial Magnetic Conductors, Soft/Hard Surfaces, and other Complex Surfaces)*, Vol. AP-53, No. 1, pp. 29–35, Jan. 2005.
29. M. Bozzi, S. Germani, and L. Perregrini, "Efficient Modeling of Planar Electromagnetic Band-Gap (EBG) Structures by the MoM/BI-RME Method," *Atti della Fondazione Giorgio Ronchi*, Vol. LX, No. 1-2, pp. 209–214, Jan.-Apr. 2005 (*invited paper*).
30. M. Bozzi, "Periodic Structures" in *Wiley Encyclopedia of RF and Microwave Engineering*, John Wiley & Sons, New York, Vol. 4, pp. 3675–3693, 2005 (*invited paper*).
31. M. Bozzi, D. Deslandes, P. Arcioni, L. Perregrini, K. Wu, and G. Conciauro, "Efficient Analysis and Experimental Verification of Substrate Integrated Slab Waveguides for Wideband Microwave Applications" *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 15, No. 3, pp. 296–306, May 2005.
32. P. Besso, M. Bozzi, M. Formaggi, S. Germani, L. Perregrini, "Design and Testing of a S/X/Ka-Band Dichroic Mirror for Deep-Space Antennas," in M. Bozzi and L. Perregrini, *Periodic Structures*, Research Signpost, Ed., pp. 145–158, 2006 (*invited paper*).
33. S. Biber, M. Bozzi, O. Günther, L. Perregrini, and L.-P. Schmidt, "Design and Measurement of Frequency Selective Surfaces for Harmonic Elimination at Submillimeter Wave Frequencies," in M. Bozzi and L. Perregrini, *Periodic Structures*, Research Signpost, Ed., pp. 159–179, 2006 (*invited paper*).

34. M. Bozzi, Duochuan Li, S. Germani, L. Perregrini, and K. Wu, "Analysis of NRD Components via the Order-Reduced Volume-Integral Equation (ORVIE) Method Combined with the Tracking of the Matrix Eigenvalues," *IEEE Transactions on Microwave Theory and Techniques*, Vol. MTT-54, No. 1, pp. 339-347, Jan. 2006.
35. N. Don, S. Germani, M. Bozzi, A. Kirilenko, and L. Perregrini, "Determination of the Mode Spectrum of Arbitrarily Shaped Waveguides by the Eigenvalue-Tracking Method," *Microwave and Optical Technology Letters*, Vol. 48, No. 3, pp. 553-556, March 2006.
36. P. Besso, M. Bozzi, M. Formaggi, S. Germani, and L. Perregrini, "On the Performance of Dichroic Mirrors with Hexagonal Holes," *Microwave and Optical Technology Letters*, Vol. 48, No. 9, pp. 1858-1862, Sept. 2006.
37. S. Biber, M. Bozzi, O. Günther, L. Perregrini, and L.-P. Schmidt, "Design and Testing of Frequency-Selective Surfaces on Silicon Substrates for Submillimeter-Wave Applications," *IEEE Transactions on Antennas and Propagation*, Vol. AP-54, No. 9, pp. 2638-2645, Sept. 2006.
38. P. Besso, M. Bozzi, M. Formaggi, S. Germani, M. Pasian, L. Perregrini, "A Novel Technique for the Accurate Design of Dichroic Mirrors for Focused Beam Waveguide Deep-Space Antennas," *Proceedings of the European Microwave Association*, Vol. 2, No. 4, pp. 333-342, Dec. 2006.
39. N. Don, M. Bozzi, A. Kirilenko, and L. Perregrini, "Analysis of Inductive Frequency Selective Surfaces by the Method of Moments with Entire-Domain Basis Functions," *Microwave and Optical Technology Letters*, Vol. 49, No. 12, pp. 2929-2932, Dec. 2007.
40. P. Besso, M. Bozzi, M. Formaggi, and L. Perregrini, "A Novel Technique for High-Performance Correction of Beam Aberration in Deep Space Antennas," *IEEE Antennas and Wireless Propagation Letters*, Vol. 6, pp. 376-378, 2007.
41. R. G. Bosisio, Y. Y. Zhao, X. Y. Xu, S. Abielmona, E. Moldovan, Y. S. Xu, M. Bozzi, S. O. Tatu, C. Nerguizian, J. F. Frigon, C. Caloz, and K. Wu "New-Wave Radio," *IEEE Microwave Magazine*, Vol. 9, No. 1, pp. 89-100, Feb. 2008.
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43. D. Li, F. Boone, M. Bozzi, L. Perregrini, and K. Wu, "Concept of Virtual Electric/Magnetic Walls and Its Realization with Artificial Magnetic Conductor Technique," *IEEE Microwave and Wireless Components Letters*, Vol. 18, No. 11, pp. 743-745, Nov. 2008.
44. M. Bozzi, L. Perregrini, and K. Wu, "Modeling of Conductor, Dielectric and Radiation Losses in Substrate Integrated Waveguide by the Boundary Integral-Resonant Mode Expansion Method," *IEEE Transactions on Microwave Theory and Techniques*, Vol. MTT-56, No. 12, pp. 3153-3161, Dec. 2008.
45. M. Bozzi, L. Perregrini, K. Wu, and P. Arcioni, "Current and Future Research Trends in Substrate Integrated Waveguide Technology," *Radioengineering*, Vol. 18, No. 2, pp. 201-209, June 2009.
46. M. Bozzi, L. Perregrini, and K. Wu, "A Novel Technique for the Direct Determination of Multi-mode Equivalent Circuit Models for Substrate Integrated Waveguide Discontinuities," *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 19, No. 4, pp. 423-433, July 2009.
47. M. Bozzi, M. Pasian, L. Perregrini, and K. Wu, "On the Losses in Substrate Integrated Waveguides and Cavities," *International Journal of Microwave and Wireless Technologies*, Vol. 1, No. 5, pp. 395-401, Oct. 2009.
48. M. Montagna, M. Bozzi, and L. Perregrini, "Convergence Properties of the Method of Moments in the Modeling of Frequency Selective Surfaces," *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 20, No. 2, pp. 220-229, March 2010.
49. S.A. Winkler, W. Hong, M. Bozzi, and K. Wu, "Polarization Rotating Frequency Selective Surface Based on Substrate Integrated Waveguide Technology," *IEEE Transactions on Antennas and Propagation*, Vol. AP-58, Vol. 4, pp. 1202-1213, April 2010.
50. P. Besso, M. Bozzi, M. Formaggi, and L. Perregrini, "Pointing Enhancement Techniques for Deep-Space Antennas," *International Journal of Microwave and Wireless Technologies*, Vol. 2, No. 2, pp. 211-218, April 2010.
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