



PERSONAL INFORMATION

Name and title **MATTEO OLDONI, PH.D., M.Sc IN TELECOMMUNICATIONS ENG.**
Address **Office: Electronics, Information and Bioengineering Dept., Politecnico di Milano, 34/5, via G. Ponzio, Milano, 20133, Italy**
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Nationality Italian
Date of birth 23 December 1984

WORK EXPERIENCE

June 2022 – present
Employer Electronics, Information and Bioengineering Dept., Politecnico di Milano, via Ponzio 34/5, 20133 Milano, Italy
Sector Research
Position held Assistant Professor, Researcher
Main activities Teaching: Fundamentals of Electromagnetic Fields (lecturer), RF Systems (assistant)
Microwave filters synthesis, design and tuning techniques
Numerical methods for electromagnetic problems
Antennas design and characterization
Characterization of antennas and devices at microwaves and mm-waves

January 2013 – May 2022
Employer SIAE Microelettronica S.p.A.
Sector Microwave and mm-Wave Telecommunication Equipment
Position held Senior Microwave Designer, Researcher
Main activities Techniques for mmWave electronic beam-steering/switching, electromechanical beam-steering
Technical planning for next-generation backhauling communications
Phased array system architectures for integrated transceivers
Technical activities in Horizon2020, ESA and EU-funded projects
Cooperation with academic/industrial partners for joint research in antenna and telecom systems
Design of microwave and mmwave antennas including Cassegrain, patch, slotted waveguides
Characterization of Microwave Devices (Ortho-Mode Transducers, Filters)
Research of Innovative Methods for Digital Pre/Post Processing and MIMO Systems
Design Methods for Microwave Filters, Multiplexers and Antennas
Characterization of Orbital Angular Momentum (OAM) Beams for Radio Links

September 2018 – December 2018
Employer Università di Pavia, Electronics Dep., via Ferrata, 5, 27100, Pavia (PV), Italy
Sector Automatic Testing
Position held External Contractor
Main activities Development of a software control interface for acquisition and characterization of microwave devices in the anechoic chamber of Laboratorio di Microonde

May 2009 – January 2013
Employer Aresys s.r.l., via Bistolfi, 49, 20134, Milano, Italy
Sector Electromagnetic Modeling
Position held Cooperation through Politecnico di Milano
Main activities Development of FEM simulators for efficient field computation

April 2012
Employer Electronics and Information Dept., Politecnico di Milano, p.zza L. da Vinci 32, 20133 Milano, Italy
Sector Electromagnetics
Position held Teaching Assistant
Main activities Exercitations for the Academic course "Electromagnetic Waves", M.Sc. level, 10 hours

May 2011 – December 2011
Employer SIAE Microelectronics, via Buonarroti, 21, 20093, Cologno Monzese (MI), Italy
Sector Antennas
Position held Cooperation through Politecnico di Milano
Main activities Development of enhanced dielectric antennas (see Patents)

September 2011 – October 2011
Employer TELSA s.r.l., via C. Colombo, 31, 24046, Osio Sotto (BG), Italy
Sector Microwave Filters
Position held Cooperation through Politecnico di Milano
Main activities Development of a semi-automatic tuning technique for microwave filters

April 2011
Employer Electronics and Information Dept., Politecnico di Milano, p.zza L. da Vinci 32, 20133 Milano, Italy
Sector Electromagnetics
Position held Teaching Assistant
Main activities Exercitations for the Academic course "Electromagnetic Waves", M.Sc. level, 10 hours

May 2009 – December 2009
Employer Electronics and Information Dept., Politecnico di Milano, p.zza L. da Vinci 32, 20133 Milano, Italy
Sector Microwave Filters
Position held Temporary Research Assistant
Main activities Advanced research of synthesis techniques suitable for lossy microwave filters

EDUCATION AND TRAINING

January 2010 – December 2012
Organization Electronics and Information Dept., Politecnico di Milano, p.zza L. da Vinci 32, 20133 Milano, Italy
Principal subjects Major research area: synthesis of microwave filters with advanced techniques for tuning and de-embedding of multiplexers (advisor prof. G. Macchiarella); collaboration with Institut National de Recherche en Informatique et en Automatique (INRIA), Sophia-Antipolis, France.
Minor research area: numerical methods for electromagnetic simulation (advisor prof. G. G. Gentili); collaboration with private companies Aresys s.r.l. and Ente Nazionale Idrocarburi (ENI)
Title of qualification awarded Philosophy Doctor (Ph.D.) in Information Technology

September 2010 – December 2010
Organization Institut National de Recherche en Informatique et en Automatique (INRIA), Sophia-Antipolis, France, APICS group
Principal subjects Analytical methods for tuning of microwave diplexers, supervised by Dr. F. Seyfert.

September 2006 – April 2009
Organization Politecnico di Milano, p.zza L. da Vinci 32, 20133 Milano, Italy
Principal subjects Thesis supervised by prof. G. Macchiarella and prof. G. G. Gentili entitled "A New Approach to the Synthesis of Lossy Filters" in cooperation with the European Space Agency (ESA/ESTEC, Noordwijk, Netherlands). Graduation mark: 110/110 summa cum laude
Main subjects: microwave circuits, antennas, electromagnetic theory, modeling and simulation.
Examinations passed: 17, of which 35% with top score and Distinction and 47% with top score
Title of qualification awarded Master of Science (M.Sc.) in Telecommunications Engineering, special. in Radio Systems

	April 2009 – August 2009
Organization	Linköping University, Linköping, Sweden
Principal subjects	Filter theory, FPGA basics
	September 2003 – July 2006
Organization	Politecnico di Milano, p.zza L. da Vinci 32, 20133 Milano, Italy
Principal subjects	Thesis supervised by prof. G. G. Gentili entitled "A Matlab Simulator for Propagation in Transmission Lines". Graduation mark: 110 /110 summa cum laude Main subjects: digital signal processing, optical technology, network fundamentals. Examinations passed: 23, of which 74% with top score and Distinction and 13% with top score
Title of qualification awarded	Bachelor of Science (B.Sc.) in Telecommunications Engineering
	September 1998 – June 2003
Organization	Secondary school Istituto di Istruzione Superiore E. Alessandrini, 23/C, viale Zara, 20010, Vittuone (MI), Italy
Principal subjects	Graduation project: "Numeric Control Mill: design and realization of a computer-assisted mill for simple mechanical machining". Graduation mark: 100/100 with merit mention. Main subjects: electronic circuits (theory and design), electronic technology (realization and laboratory testing), telecommunication systems, computer programming
Title of qualification awarded	Electronics and Telecommunications Technician
	PERSONAL SKILLS AND COMPETENCES
MOTHER TONGUE	Italian
OTHER LANGUAGES	
	English
Reading skills	Very good
Writing skills	Very good
Verbal skills	Very good
SOCIAL SKILLS AND COMPETENCES	Integration in international environment acquired and boosted by two long stays, respectively in INRIA (2010), France, and in Linköping University (2009), Sweden. Public speaking to international audience, acquired thanks to several conference talks in the microwave area.
ORGANISATIONAL SKILLS AND COMPETENCES	Self-organization of scheduling and priorities in a multi-project environment Organization of team-working for small projects. Organization of a small association, acquired during more than 10 years as a counsellor in the local musical citizen band.

TECHNICAL SKILLS AND COMPETENCES

Circuit simulators: National Instruments AWR Microwave Office, National Instruments MultiSim v9, Workbench v2, Advanced Design System (ADS).

Electromagnetic simulators: Ansys Electronics Desktop (HFSS), TICRA Grasp, CST Studio 2010, Comsol Multiphysics 4.1, 4NEC2.

Mathematical software: Mathworks Matlab.

Low-level programming languages: Assembler x8086/88, Microchip PIC Assembler, basics of ARM Assembler, Atmel Microcontroller C for Arduino and Python for Raspberry PI.

High-level programming languages: Matlab, C, Visual Basic.Net, Visual Basic for Microsoft Office's macro and applications (VBA), basics of Java and C++.

Office products: LaTeX and Texnic Center, Microsoft Office (Word, Power Point, Excel, Access), Open Office Suite (Writer, Impress, Calc, Base), Microsoft Visio, Microsoft Project, Subversion (SVN) Source Control System.

Web design: HTML with Javascript, PHP, Joomla 3, ASP basics

Computer Aided Design: Dassault SolidWorks, Google Trimble SketchUp.

Graphics/Audio/Video: Adobe Photoshop, Sony Sound Forge, Magix Video Deluxe.

Operating Systems: Microsoft Windows (98, 2000, XP, 7, 10), Linux Ubuntu basics.

Laboratory equipment: Tektronix Oscilloscope, Hewlett Packard, Rhode and Schwartz ZVA and Agilent PNX network analyzers, printed circuit board (PCB) design and realization, 3D fused-filament printing.

ARTISTIC SKILLS AND COMPETENCES

Playing trumpet in a local citizen band since I was 12 years old. Jazz music is my favourite.

DRIVING LICENCE(S)

B-Class (Automobiles) European Driving License

PRIZES, AWARDS AND FELLOWSHIPS

- Member of Technical Staff, SIAE Microelettronica, since July 2014
- Best PhD student of XXV cycle in Electronics, Information and Bioengineering Dept., Politecnico di Milano, 2013
- Young Engineer Prize at the European Microwave Conference 2009, Rome, Italy
- Best Graduates of Politecnico di Milano Award in year 2006
- Merit mention after high school graduation in year 2003

PUBLICATIONS

PATENTS

1. Rossi, L.; Oldoni, M.; "Method and apparatus for revising estimates of symbols carried by modulated signals transmitted on a MIMO radio relay", Patent n. EP3244548A1, 2017
2. Oldoni, M.; "Connecting Structure And Emission/Reception System Of The Dual-Band Type With Dual Polarization Per Frequency Band", Patent n. EP3358669, 2016
3. Tamburini, F.; Romanato, F.; Mari, E.; Someda, C.F.; Parisi, G.; Oldoni, M.; Spinello, F.; Coassini, P.; Ravanelli, R.A.; "Secure Short-Range Radio Communication Device, System and Method", Patent n. 20160292472, 2015
4. Tamburini, F.; Thidè, B.; Romanato, F.; Someda, C.; Mari, E.; Parisi, G.; Spinello, F.; Coassini, P.; Marazzi, E.; Ravanelli R.; Oldoni, M. "Method for generating microwave or rf electromagnetic wave beams with non-zero orbital angular momentum and with intensity distribution concentrated in a limited angular region", Patent n. WO 2014170869 A1, 2013
5. Magistroni, C.; Cattaneo, O.; D'Amico, M.; Gentili, G. G.; Oldoni, M.; "Antenna dielettrica ottimizzata per trasmissioni a frequenze millimetriche", "Dielectric Antenna Optimized for Millimeter-Frequency Transmission", Patent n. MI2011A002141, 2011

BOOKS

1. Oldoni, M.; Macchiarella, G.; Seyfert, F.; "Advanced Synthesis and Modelling Techniques For Microwave Filters and Multiplexers", Saarbrücken, Germany; Scholars' Press, 2014, ISBN 978-3-639-71005-2
2. Oldoni, M.; Fonte, A.; Chapter "Receiver" within "Electronics for Microwave Backhaul", Artech House, 2016, ISBN 978-1-63081-015-3
3. Oldoni, M.; Camarchia, V.; Quaglia, R.; Chapter "Antennas" within "Electronics for Microwave Backhaul", Artech House, 2016, ISBN 978-1-63081-015-3
4. Abdulkhaleq, A.; Sajedin, M.; Al-Yasir, Y.; Mejillones, S. C.; Parchin, N. O.; Rayit, A.; Elfergani, I.; Rodriguez, J.; Abd-Alhameed, R.; Oldoni, M.; D'Amico, M.; "Energy-Efficient RF for UDNs", Springer, 2021, ISBN 978-3-030-74647-6

DIVULGATION ACTIVITIES

1. Oldoni, M.; Moscato, S.; Biscevic, G.; Solazzi, G.L.; Skiadas, G.; "A mmWave Power Booster for Long-Reach 5G Wireless Transport", *Microwave Journal*, white paper, 2022 <https://www.microwavejournal.com/articles/38820-a-mmwave-power-booster-for-long-reach-5g-wireless-transport>
2. Oldoni, M.; "Longer Reach & Higher Capacity Wireless Transport: How to Win-Win an Impossible Match", International Topical Meeting on Microwave Photonics, November 2021
3. Oldoni, M.; Moscato, S.; Biscevic, G.; Solazzi, G.L.; "A Steering Antenna for Long-Reach mmWave X-Haul Links", *Microwave Journal*, white paper, 2021 <https://www.microwavejournal.com/articles/36904-a-steering-antenna-for-long-reach-mmwave-x-haul-links>
4. Co-chair of technical sessions at International Microwave Filters Workshop, Perugia, 2021: Filters and Mux for Space Systems; Multirole microwave devices with integrated filtering functions; Combiners and Filtennas. <http://imfw-ieee.org/>
5. Co-advisor for Industrial PhD Thesis "Numerical Synthesis of Filters, Antennas and Filtering Antennas for Micro and Millimeter Waves Applications", S. K. Caicedo Mejillones, Politecnico di Milano, 2022
6. Guest lecturer on the topic "RF Components for 5G Backhauling", within M.Sc. course "Antennas", Electronics, Information and Bioengineering Dept., Politecnico di Milano, 2018
7. Co-organizer of workshop "Power Amplifier Design Challenges and Solutions for Millimetre-Wave Radios" at European Microwave Conference EuMC/EuMIC, May 2016
8. Oldoni, M.; Biscevic, G.; Coassini, P.; "Capacity Increase: Millimeter Wave Systems for Backhauling", *Microwave Symposium Digest (MTT), 2016 IEEE MTT-S International*, " Millimeter-wave electronics: from applications to manufacturing", Workshop, May 2016
9. Oldoni, M.; Biscevic, G.; "Capacity Increase: a System-Wide Challenge", *Microwave Symposium Digest (MTT), 2015 IEEE MTT-S International*, "Microwave backhaul: trends and enabling technologies", Workshop, May 2015

REFEREED JOURNALS

1. Oldoni, M.; Macchiarella, G.; Gentili, G. G.; D'Asta, C.; "Analytical Derivation of Scattering and Admittance Rational Functions from Coupling Matrix", *IEEE Transactions on Circuits and Systems II*, June 2021 <https://doi.org/10.1109/TCSII.2023.3241429>
2. Codecasa, L.; Gentili, G. G.; Oldoni, M.; "Exploiting Port Response for Multimode Wideband Analysis of Lossy Devices," in *IEEE Transactions on Microwave Theory and Techniques*, <https://doi.org/10.1109/TMTT.2022.3222166>
3. Zahran, S. R.; Moscato, S.; Fonte, A.; Oldoni, M.; Traversa, A.; Tresoldi, D.; Ferrari, P.; Amendola, G.; Boccia, L.; "Flippable and Hermetic E -Band RWG to GCPW Transition With Substrate Embedded Backshort," in *IEEE Transactions on Microwave Theory and Techniques*, doi: 10.1109/TMTT.2022.3228619.
4. Oldoni, M.; Seyfert, F.; Caicedo, S.; Moscato, S.; Macchiarella, G.; "Passivity and Maximum Quality Factor Assessment in Lossy 2-port Transfer Functions", *IEEE Transactions on Circuits and Systems II*, June 2021 <https://doi.org/10.1109/TCSII.2021.3089428>
5. Moscato, S.; Cannone, G.; Oldoni, M.; Tiradossi, D.; Pelliccia, L.; Jankovic, P.; De Paolis, F.; "Ku/Ka band diplexer based on thin-film technology for small ground-segment user terminals", *International Journal of Wireless Technologies*, Cambridge University Press, June 2021 <https://doi.org/10.1017/S1759078721000908>
6. Caicedo, S.; Oldoni, M.; Moscato, S.; Macchiarella, G.; D'Amico, M.; Gentili, G.; Biscevic, G.; "Unified Analytical Synthesis of Cascaded n-Tuplets Filters Including Nonresonant Nodes", *IEEE Transactions on Microwave Theory and Techniques*, April 2021, <https://doi.org/10.1109/TMTT.2021.3073481>
7. Caicedo, S.; Oldoni, M.; Moscato, S.; Macchiarella, G.; D'Amico, M.; Gentili, G.; "Accurate synthesis of extracted-pole filters by Topology Transformations", *IEEE Microwave and Components Letters*, January 2021 <https://doi.org/10.1109/LMWC.2020.3035870>
8. Caicedo, S.; Oldoni, M.; Moscato, S.; Macchiarella, G.; "Analytical synthesis of fully-canonical cascaded-doublet prototype filters", *IEEE Microwave and Wireless Components Letters*, October 2020 <https://doi.org/10.1109/LMWC.2020.3026187>
9. Lefteriu, S.; Olivi, M.; Seyfert, F.; Oldoni, M.; "System identification of microwave filters from multiplexers by rational interpolation", *Automatica*, Elsevier, February 2017 <https://doi.org/10.1016/j.automatica.2016.09.034>
10. Spinello, F.; Someda, C.G.; Ravanelli, R.A.; Mari, E.; Parisi, G.; Tamburini, F.; Romanato, F.; Coassini, P.; Oldoni, M.; "Radio channel multiplexing with superpositions of opposite-sign OAM modes", *Int. Journal of Electronics and Radio Communications*, Vol.70, pp.990-997, Aug.2016 <http://www.sciencedirect.com/science/article/pii/S1434841116301005>
11. Spinello, F.; Parisi, G.; Tamburini, F.; Massaro, G.; Someda, C.G.; Oldoni, M.; Ravanelli, R.; Romanato, F.; Mari, E.; "High-order vortex beams generation in the radio-frequency domain", *Antennas and Wireless Communication Letters, IEEE (IEEE-AWPL)*, Vol.15, June 2015, <http://ieeexplore.ieee.org/document/7268857/>
12. Oldoni, M.; Spinello, F.; Mari, E.; Parisi, G.; Someda, C. G.; Tamburini, F.; Romanato, F.; Ravanelli, R.; Coassini, P.; Thidé, B. "Space-Division Demultiplexing in Orbital-Angular-Momentum Based MIMO Radio Systems", *Antennas and Propagation, IEEE Transactions (IEEE-TAP)*, Oct.2015 <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7160713>

13. Tamburini, F.; Mari, E.; Parisi, G.; Spinello, F.; Oldoni, M.; Ravanelli, R.; Coassini, P.; Someda, C. G.; Thidé, B.; Romanato, F.; "Tripling the capacity of a point-to-point radio link by using electromagnetic vortices", June 2015, Radio Sciences, AGU Publications <http://onlinelibrary.wiley.com/doi/10.1002/2015RS005662/full>
14. Mari, E.; Spinello, F.; Oldoni, M.; Ravanelli, R.; Romanato, F.; Parisi, G.; "Near-Field Experimental Verification of Separation of OAM Channels", *IEEE Antennas and Propagation Letters*, Nov. 2014, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6953011>
15. Cannone, G.; Oldoni, M.; "High-Yield E-Band Diplexer for Fixed Radio Point-to-point Equipment", *International Journal on Radio Frequency and Microwave C.A.E.*, Wiley, vol. 24, July 2014 <http://onlinelibrary.wiley.com/doi/10.1002/mmce.20792/abstract>
16. Oldoni, M.; Macchiarella, G.; Bellini, S.; "Accurate computation of poles of a lossless multiport network via cepstrum analysis," *Microwave Components Letters, IEEE*, vol. 23, no.2, January 2013 <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6419853>
17. Macchiarella, G.; Oldoni, M.; Tamiazzo, S.; "Design of narrow band filters with mixed topology," *Microwave Theory and Techniques, IEEE Transactions on (IEEE-TMTT)*, vol. 60, no.12, October 2012, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6328297>
18. Oldoni, M.; Seyfert, F.; Macchiarella, G.; Pacaud, D.; "Deembedding response of filters from diplexer measurements," *International Journal on Radio Frequency and Microwave Computer Aided Engineering*, Wiley-Blackwell, vol. 23, no.2, pp. 188-199, August 2010, <http://onlinelibrary.wiley.com/doi/10.1002/mmce.20664/abstract>
19. Oldoni, M.; Macchiarella, G.; Gentili, G.G.; Ernst, C.; "A New Approach to the Synthesis of Microwave Lossy Filters," *Microwave Theory and Techniques, IEEE Transactions on (IEEE-TMTT)*, vol.58, no.5, pp.1222-1229, May 2010, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5444966&isnumber=5463243>

CONFERENCES

1. Oldoni, M.; Moscato, S.; Caicedo, S.; Franceschet C.; "Direct Analytical Synthesis of Broadside Inline Antenna Arrays", 52nd European Microwave Conf. (EuMC), Sept. 2022
2. Oldoni, M.; Moscato, S.; Tresoldi, D.; "Three-Step Monoblock Waveguide Twist" , 52nd European Microwave Conf. (EuMC), Sept. 2022
3. Oldoni, M.; Moscato, S.; Caicedo, S.; Giannini, A.; "Phased Array Design for Bounded-Power Consumption Onboard Spacecraft", 21st Microw. Med. Symp. (MMS), 9-13 May 2022
4. Moscato, S.; Oldoni, M.; Caicedo, S.; "Substrate Integrated Waveguide Components on Alumina for E-band Applications", 21st Microwave Med. Symp. (MMS), 9-13 May 2022
5. Oldoni, M.; Moscato, S.; Caicedo, S.; Giannini, A.; "Filtennas in Space: a Novel Approach for Radio-Frequency Interference Mitigation", *ESA Worksh. on Aerospace EMC*, May 2022
6. Oldoni, M.; Moscato, S.; Caicedo, S.; Giannini, A.; "Ka-band Coaxial Horn Filtenna for Enhanced Electromagnetic Compatibility on Spacecrafts", *IEEE International Microwave Filters Symposium*, November 2021
7. Cannone, G.; Moscato, S.; Oldoni, M.; "Passive Networks for C-Band Multi-Carrier Wireless Backhaul Systems", *IEEE International Microwave Filters Symposium*, November 2021
8. Moscato, S.; Oldoni, M.; Cannone, G.; Tresoldi, D.; Pini, A.; Colzani, A.; "8-way Paralleled Power Amplifier for mm-Wave 5G Backhauling Networks", 15th European Conference on Antennas and Propagation, April 2021
9. Zahran, S.; Boccia, L.; Amendola, G.; Moscato, S.; Oldoni, M.; Tresoldi, D.; "Broadband D-Band Antenna Array Based on 64 Stepped Horns for 5G Backhauling Applications", 15th European Conference on Antennas and Propagation, April 2021
10. Zahran, S.; Boccia, L.; Amendola, G.; Moscato, S.; Oldoni, M.; Tresoldi, D.; "An 8 × 8 Cavity Backed Waveguide Antenna Array for D-Band Backhauling Communications", 14th European Conference on Antennas and Propagation, April 2020
11. Caicedo, S.; Oldoni, M.; Moscato, S.; Fonte, A.; D'Amico, M.; "Power consumption and radiation tradeoffs in 5G Wireless Transport", *IEEE International Conference on Telecommunications and Signal Processing*, 2020.
12. Caicedo, S.; Oldoni, M.; Moscato, S.; "Challenges of Using Phased Array Antennas in Commercial Backhaul Equipment at 26 GHz", *International Conference on Interactive Mobile Communication, Technologies and Learning (IMCL)*, Nov 2019
13. Moscato, S.; Oldoni, M.; Parisi, G.; "E-band Radio Fiber as Low-Cost mm-Wave Waveguide Junction", *European Microwave Conference (EuMC)*, Sep 2018
14. Oldoni, M.; Tresoldi, D.; "Cheap Method for Accurate Characterization of Orthomode Transducers", *Microwave Symposium Digest (MTT)*, 2016 IEEE MTT-S, May 2016
15. Seyfert, F.; Oldoni, M.; Olivi, M.; Lefteriu, S.; Pacaud, D.; "Deembedding of filters in multiplexers via rational approximation and interpolation", *Microwave Symposium Digest (MTT)*, 2014 IEEE MTT-S International, June 2014
16. Lefteriu, S.; Oldoni, M.; Olivi, M.; Seyfert, F.; "De-embedding multiplexers by Schur reduction," 52nd IEEE Conference on Decision and Control, 2013, 10-13 Dec. 2013
17. Macchiarella, G.; Oldoni, M.; "Junction Duplexers with Resonant Node: Synthesis of Improved Solutions", *International Workshop on Microwave Filters (IWMF)*, 2012

18. Macchiarella, G.; Oldoni, M.; Seyfert, F.; Amari, S.; "Synthesis of Microwave Filters with Reactive Nodes," *European Microwave Conference (EuMC), 2012*, 28 Oct-2 Nov. 2012
19. Macchiarella, G.; Oldoni, M.; "Advantages and Limitations of a Polynomial Approach to the Design of Compact Multiplexers," in workshop, *European Microwave Conference, 2012*
20. Oldoni, M.; Seyfert, F.; Macchiarella, G.; "Tuning Diplexers with Rational Filters," *XIX Riunione Nazionale Elettromagnetismo*, 10-14 Sept. 2012
21. Macchiarella, G.; Oldoni, M.; Tamiazzo, S.; "Design of narrow band filters with mixed topology," *Microwave Symposium Digest, 2012 IEEE MTT-S International*, June 2012
22. Oldoni, M.; Seyfert, F.; Macchiarella, G.; Pacaud, D.; "Deembedding of filters' responses from diplexer measurements," *Microwave Symposium Digest (MTT), 2011 IEEE MTT-S International*, pp.1-4, 5-10 June 2011
23. Oldoni, M.; Macchiarella, G.; Seyfert, F.; "Passivity enforcement in the synthesis of lossy filters," *Microwave Conference (EuMC), 2010 European*, pp.1277-1280, 28-30 Sept. 2010
24. Oldoni, M.; Macchiarella, G.; Gentili, G.G.; "Sintesi di filtri a microonde senza utilizzo della matrice di accoppiamento," *XVIII Riunione Nazionale Elettromagnetismo*, 6-10 Sept. 2010
25. Oldoni, M.; Macchiarella, G.; Gentili, G.G.; Ernst, C.; Castelein J. (ESA/ESTEC) "A Microstrip Implementation of an Absorptive Bandpass Filter," *International Workshop on Microwave Filters (IWMF)*, Toulouse, 2009
26. Oldoni, M.; Macchiarella, G.; Gentili, G.; "A novel approach to lossy filter synthesis," *Microwave Conference, 2009 European (EUMC)*, pp.444-447, Sept. 29 2009-Oct. 1 2009