

Curriculum Vitae

Giovanni Angiulli

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1 Personal Information

- **Nationality:** Italian;
- **Working Address:** Department of Information, Infrastructure and Sustainable Energy (DIIES), University *Mediterranea*, via Graziella, loc. Feo di Vito, 89122 Reggio Calabria, Italy
- **Email:** giovanni.angiulli@unirc.it
- **Web page:** www.diies.unirc.it/scheda_persona.php/?id=643

2 Education

- (1993) *Laurea* (Master degree) in Computer Science Engineering, University of Calabria, Italy;
- (1998) *Dottorato di Ricerca* (Doctor of Philosophy degree) in Electronics and Computer Science Engineering, University of Napoli - *Federico II*, Italy.

3 Academic Appointments

- (1998) Adjunct Professor of *Remote Sensing and Electromagnetic Diagnostics*, graduate degree course in Engineering Electronics, University *Mediterranea* of Reggio Calabria, Academic Year 1997-1998;
- (1999 - to date) Assistant Professor of Electromagnetics, University *Mediterranea* of Reggio Calabria.

4 Professional Membership

- (2002 to date) *Member*, Electromagnetics Italian Society (SIEM);
- (2013-to date) *Member*, Institute of Electronics, Information and Communication Engineers of Japan (IEICE);
- (2011-2015) *Member*, Institute of Electrical and Electronics Engineers (IEEE).
- (2015) Appointed to IEEE Senior Member grade.
- (2015 to date) *Senior Member*, Institute of Electrical and Electronics Engineers (IEEE).

4.1 IEEE Societies Affiliations

- *IEEE Magnetics society.*
- *IEEE Microwave Theory and Technique society.*
- *IEEE Antennas and Propagation society.*
- *IEEE Compatibility Electromagnetic society*

5 Research Interests

- Numerical Methods, Functional Analysis, Machine Learning, Surrogate Modelling.

5.1 Research Areas (Current and Past)

- Substrate Integrated Waveguide (SIW) devices;
- Surrogate Modeling of Microwave and Millimeter Wave Devices
- Microwave imaging;
- Computational Electromagnetics;
- Microstrip Antennas and Reflectarrays;
- Ground Penetrating Radar and SAR image classification.

6 Work Experience

6.1 Teaching

6.1.1 Courses taught at University *Mediterranea* of Reggio Calabria

- (Academic Year 1999/2000) *Remote Sensing Systems*, undergraduate degree course in Telecommunication Engineering;
- (from Academic Year 1999/2000 to Academic Year 2002/2003) *Remote Sensing and Electromagnetic Diagnostics*, (12 CFU), graduate degree course in Engineering Electronics;
- (from Academic Year 2002/2003 to Academic Year 2008/2009) *Microwave*, undergraduate degree course in Telecommunication Engineering, Bachelor Degree in Electronics Engineering (DM 509/99);
- (from Academic Year 2002/2003 to Academic year 2008/2009) *Methods for Microwave Engineering*, graduate degree course in Electronics Engineering, Master Degree in Telecommunication Engineering;
- (from Academic Year 2003/2004 to Academic Year 2005/2006) *Electromagnetic Fields*, PhD degree course in Electronics Engineering;
- (from Academic Year 2005/2006 to Academic Year 2008/2009) *Computational Electromagnetics*, PhD degree course in Electronics Engineering;

- (from Academic Year 2009/2010 to Academic Year 2012/2013) *Microwave Devices*, undergraduate degree course in Electronics Engineering, undergraduate degree course in Telecommunication Engineering;
- (from Academic Year 2009/2010 to Academic Year 2013/2014) *Design of Microwaves Equipments*, graduate degree course in Electronics Engineering;
- (Academic Year 2010/2011) *Antennas*, graduate degree course in Telecommunication Engineering;
- (from Academic Year 2010/2011 to Academic Year 2011/2011) *Microwave Design*, graduate degree course in Electronics Engineering;
- (from Academic Year 2011/2012 to date) *Microwave Engineering*, graduate degree course in Electronics Engineering;
- (Academic Year 2012/2013) *Electromagnetic Radiation and Propagation*, undergraduate degree course in Information Engineering;
- (from Academic Year 2013/2014 to date) *Microwave Devices and Circuits*, undergraduate degree course in Information Engineering;

6.1.2 Courses taught at University della Calabria

- (Academic Year 2003/2004) *Microwave Devices Design*, undergraduate degree course in Electronics Engineering;
- (Academic Years 2004/2005; 2006/2007) *Numerical Modelling for Electromagnetics*, graduate degree course in Telecommunication Engineering;

6.1.3 Courses taught at University Magna Grecia of Catanzaro

- (Academic Year 2011/2012) *Electromagnetic Field Engineering for Biomedical Technologies*, second level Master degree course in Biomedical Electronics;

6.1.4 Alumni

- Advisor of four PhD degree students in Electronics Engineering, University *Mediterranea* of Reggio Calabria:
 1. (2009) Salvatore Tringali, dissertation title: “Stable solution of the electric-field integral equation by a method of regularization and preconditioning based on Krylov subspaces”(in italian);
 2. (2010) Domenico De Carlo, dissertation title: “Non-linear eigenvalues problem for the electromagnetic scattering analysis and microwave devices characterization” (in italian);
 3. (2010) Paolo Quattrone, dissertation title: “Subspace Krylov methods and Integral Equations for the Electromagnetic Scattering: Preconditioning and stabilization techniques” (in italian);
 4. (2015) Annalisa Sgró, dissertation title: “Novel techniques for the equivalent parameters extractions and fast characterization of metamaterials” (in italian).

- (from 2000 to date) Advisor of about 150 thesis of undergraduate and graduate degree in Electronics Engineering and Telecommunication Engineering, University *Mediterranea* of Reggio Calabria;
- (Academic Year 2004/2005) Advisor of 1 thesis of undergraduate degree in Electronics Engineering, University of Calabria.
- (from 2011 to 2012) Advisor of one temporary research associate thesis, University *Mediterranea* of Reggio Calabria.

6.1.5 Miscellaneous

- (2009) - Instructor, *RFID Technologies and Applications*, SMARTRES Industry S.P.A.
- (2015) - Instructor, *Electromagnetic Waves Theory, Electromagnetic Scattering*, EOMAT - Materials and Systems for the production and storage of renewable energy, *PON03PE_00092.1/F1*, University of Calabria.

6.2 Services

6.2.1 University *Mediterranea* of Reggio Calabria

- (2001-2013) *Member*, Committee Board “Tirocini Didattici”;
- (2002-to date) *Member*, Ph.D. Board “Information Engineering” (formerly Electronic Engineering);
- (2003) *Member*, Selection Panel “Attività Part-Time”;
- (2004, 2008, 2011, 2013, 2014, 2015) *Member*, Evaluation Committee for suitability to pursue the profession of Engineer;
- (2006) *Member*, Selection Panel of the Ph.D school in Electronic Engineering (XXII cycle);
- (2008) *Member*, Evaluation Committee for Undergraduate Entrance Test;
- (2008) *Job Market Expert*, PON Hight Education Project;
- (2009, 2015) *Member*, Committee for Guidance School (TOS);

6.2.2 Member of the Technical Program Committee of

- (2013) 2nd International Conference on Biomedical Engineering and Biotechnology (iCBEB 2013), <http://2013.icbeb.org/committee.html>;

6.2.3 Reviewer

- of the quality of the reseach outputs, South Africa’s National Research Foundation (NRF), 2015

6.2.4 Miscellaneous

- (1998) *Member*, Organizing Committee XII RINEM (Italian National Meeting of Electromagnetics Research Groups), 1998.
- (2006) *Member*, Selection Panel for a national competition for a position of Assistant Professor, University Politecnica delle Marche, (2006);
- (2014) *Member*, Selection Panel 7th *StartCup Calabria*;

7 Research Projects

1. (2000-2001) ASI National Project (NI/34/00) “Dual band antennas for SAR applications”, funded by Italian Space Agency, *Local person in charge*;
2. (2001-2003) PRIN National Project “Printed Reflectarrays”, *Member of the project team*;
3. (2003-2005) PRIN National Project “Innovative Antennas for Ka band terminal”, *Member of the project team*;
4. (2003-2005) Project “Sistemi Integrati per il Monitoraggio e il Controllo dell’Inquinamento Elettromagnetico”, funded by Italian Environment Ministry, *Member of the project team*;
5. (2005-2006) Project “Esecuzione di analisi per la verifica della propagazione delle onde elettromagnetiche sui territori dei comuni di Scilla, S. Roberto, S. Stefano di Aspromonte e sul territorio della XI circoscrizione del comune di Reggio Calabria”, funded by District of Reggio Calabria, *Member of the project team*.
6. (2007-2009) PRIN National Project “Diagnostica morfologica e funzionale precoce del cancro al seno mediante tomografia a microonde: modellistica elettromagnetica di scenari realistici, progettazione e ottimizzazione del sistema di esposizione, valutazione delle prestazioni” (2007-2009), *Member of the project team*;
7. (2007-2010) Project PON Ricerca e Competitività 2007-2013 (PON01-01503) “Sistemi integrati per il monitoraggio, l’early warning e la mitigazione del rischio idrogeologico lungo le grandi vie di comunicazione”, *Member of the project team*;
8. (2008-2009) ESA contract number 21689/08/NL/ST “Innovative Architectures for reducing the number of controls on multiple beam telecommunication antennas”, funded by European Space Agency, *Member of the project team*;
9. (2010-2012) Project TECNE “Alle radici della identità territoriale: metodi innovativi interdisciplinari per l’individuazione, valorizzazione, diffusione dei beni artistico culturali - WP2 Indagini georadar per la localizzazione, l’identificazione e il recupero dei beni archeologici e culturali, funded by Region Calabria (Bando (D.D. n.791 01.02.2010)), *Work Package n.2 Task leader*.

10. (2014-to date) Project PON Ricerca e Competitivá 2007-2013, "DOMUS - Technological District for the Information and Communication Technologies for the development of intelligent and sustainable environments" (Distretto delle tecnologie infOrmatiche e di coMunicazione per lo svilUppto di ambienti intelligenti e Sostenibili), *Member of the project team.*

7.1 Miscellaneous

- (2010) Winner of an Academic Hardware Grant, NVIDIA

8 Peer Review Activity

1. IEEE Transaction on Microwave Theory and Techniques;
2. IEEE Transaction on Biomedical Engineering
3. Progress in Electromagnetic Research;
4. Journal of Electromagnetic Waves and Applications;
5. IEEE Antennas and Propagation Magazine;
6. IET Microwave, Antennas & Propagation;
7. IET Electronics Letters;
8. International Journal of Applied Electromagnetics and Mechanics;
9. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields;
10. International Journal of Antennas and Propagation
11. International Journal of Electronics;
12. ACES Journal;
13. Journal of Microwaves, Optoelectronics and Electromagnetic Applications;
14. Neural Computing and Application;
15. AI Communications;

9 Awards and Honors

- (from Academic Year 2004/2005 to Academi Year 2005/2006) the course "Methods for Microwave Engineering" was recognized as one of the "Best Courses" offered at University *Mediterraena* of Reggio Calabria;
- (2012) A short paragraph devoted to the paper Angiulli G., De Carlo D., Isernia T., "Matching fluid influence on the field scattered from a breast tumor: analysis using 3-D realistic numerical phantoms". ELECTRONICS LETTERS, vol. 48, p. 13-14, ISSN: 0013-5194, doi: 10.1049/el.2011.2990 (2012) - has been published in the "In Brief" section of same issue, which highlights some of the most interesting work within the journal.

10 Scientific Publications

10.1 International peer reviewed Journals

- (1) Amendola G., Angiulli G., Di Massa G., “*Numerical and Analytical Characteristic Modes for Conducting Elliptic Cylinders*”, Microwave and Optical Technology Letters, vol.16, no.4, pp. 243-249, 1997.
- (2) Angiulli G., Amendola G., Di Massa G., “*Characteristic Modes in Multiple Scattering by Conducting Cylinders of Arbitrary Shape*”, Electromagnetics, vol.18, no.6, pp. 593-612, 1998.
- (3) Angiulli G., Amendola G., Di Massa G., “*Application of Characteristic Modes to the Analysis of Scattering from Microstrip Antennas*”, Journal of Electromagnetic Waves and Applications, vol.14, no.8, pp.1063-1081, 2000.
- (4) Amendola G., Di Massa G., Angiulli G., “*Elliptic-Hyperbolic Waveguides*”, Journal of Electromagnetic Waves and Applications, vol.14, no.11, pp.1473-1487, 2000.
- (5) Angiulli G., Amendola G., Di Massa G., “*Application of Higham-Cheng Algorithm to the Generalized Eigenproblem in Computational Electromagnetics*”, IEE Electronics Letters, vol. 37, no.5, pp. 282-283, 2001.
- (6) Venneri F., Angiulli G., Di Massa G., “*Experimental Evaluation of the Phase of the Field Scattered by Microstrip Patches for Reflectarray Design*”, Microwave and Optical Technology Letters, vol.34, no.3, pp.163-164, 2002.
- (7) Venneri F., Angiulli G., Di Massa G., “*Design of Microstrip Reflectarray Using Data from Isolated Patch Analysis*”, Microwave and Optical Technology Letters, vol.34, no.6, pp.411-414, 2002.
- (8) Angiulli G., Versaci M., “*A Neuro-Fuzzy Network Model for the Design of Circular and Triangular Equilateral Microstrip Patch Antennas*”, International Journal of Infrared and Millimeter Waves, vol.23, no.10, pp.1513-1520, 2002.
- (9) Angiulli G. and Venneri F. “*Use of the Simultaneous Diagonalization Technique in the $A\bar{x} = \lambda B\bar{x}$ Eigenproblem Applied to the Computation of the Characteristic Modes*”, Applied Computational Electromagnetics Society Journal, vol.17, no.3, pp.232-238, 2002.
- (10) Angiulli G., Versaci M., “*Resonant Frequency Evaluation of Microstrip Antennas Using a Neural Fuzzy Approach*”, IEEE Trans. on Magnetics, vol.39, no.3, pp. 1333-1336, 2003.
- (11) Venneri F., Costanzo S., Di Massa G., Angiulli G., “*Investigation of Printed Reflectarrays as Permanent Scatterers in SAR Interferometry*”, Microwave and Optical Technology Letters, vol.37, no.1, pp.18-20, 2003.
- (12) Venneri F., Costanzo S., Di Massa G., Angiulli G., “*Synthesis of Microstrip Reflectarrays as Planar Scatterers for SAR Interferometry*”, IEE Electronics Letters, vol.39, no.3, pp.266-267, 2003.

- (13) Venneri F., Boccia L., Angiulli G., Amendola G., Di Massa G., “*Analysis and Design of Passive and Active Microstrip Reflectarrays*”, Int J RF and Microwave CAE, vol.13, no.5, pp.370-377, 2003.
- (14) Angiulli G., Barrile V., Cacciola M., “*SAR Imagery Classification Using Multi-Class Support Vector Machines*”, Journal of Electromagnetic Waves and Applications, vol.19, no.14, pp.1865-1872, 2005.
- (15) Angiulli G., Barrile V., Cacciola M., “*M-SVM SAR images classification: experimental results and validations*”, European Journal of Remote Sensing, vol.32, pp.79-86, 2005.
- (16) Venneri F., Costanzo S., Di Massa G. and Angiulli G., “*An Improved Synthesis Algorithm for Reflectarray Design*”, IEEE Antennas and Wireless Propagation Letters, vol.4, pp.258-261, 2005.
- (17) Angiulli G., Barrile V., Cacciola M., “*The GPR Technology on the Seismic Damageability Assessment of Reinforced Concrete Building*”, PIERS Online, vol.1, no.3, 303-307, 2005.
- (18) Angiulli G., Amendola G., Di Massa G., “*Radiation from Dielectric Coated Elliptic Conducting Cylinder by Assigned Electric Current Distribution*”, Progress in Electromagnetics Research PIER, vol.57, pp.131-150, 2006.
- (19) Angiulli G., “*On the Computation of Nonlinear Eigenvalues in Electromagnetic Problems*”, Journal of Electromagnetic Waves and Applications, vol. 21, no.4, pp.1865-1872, 2007.
- (20) Angiulli G., Barrile V., Cacciola M., “*Solving Electromagnetic Inverse Scattering Problems by SVRMs: a Case of Study Towards Georadar Applications*”, PIERS Online, vol.3, no.5, pp.741-745, 2007.
- (21) Angiulli G., Cacciola M., Versaci M., “*Microwave Devices and Antennas Modelling by Support Vector Regression Machines*”, IEEE Transaction on Magnetics, vol.43, no.4, pp.1589-1592, 2007.
- (22) Amendola G., Angiulli G., Arnieri E., Boccia L., “*Resonant Frequencies of Circular Substrate Integrated Resonators*”, IEEE Microwave and Wireless Components Letters, vol.18, no.4, pp.239-241, 2008.
- (23) Angiulli G., Barrile V., Meduri G. M., Pucinotti R., Tringali S., “*Classing and Extracting Information from Radar Images*”, PIERS Online, vol.4, no.6, pp.741-745, 2008.
- (24) Angiulli G., De Carlo D., Amendola G., Arnieri E., Costanzo S., “*Support Vector Regression Machines to Evaluate Resonant Frequency of Elliptic Substrate Integrate Waveguide Resonators*”, Progress in Electromagnetics Research PIER, vol.83, pp.107-1118, 2008.
- (25) Angiulli G., “*Comments on A Hybrid Method Based on Combining Artificial Neural Network and Fuzzy Inference System for Simultaneous Computation of Resonant Frequencies of Rectangular, Circular and Triangular Microstrip Antennas*”, IEEE Transaction on Antennas and Propagation, vol. 57, p.296, 2009.

- (26) Angiulli G., Arnieri E., De Carlo D., Amendola G., “Fast Nonlinear Eigenvalues Analysis of Arbitrarily Shaped Substrate Integrated Waveguide (SIW) Resonators”, IEEE Transaction on Magnetics, vol.45, no.4, pp.1412-1425, 2009.
- (27) Angiulli G., Tringali S., “Stabilizing the E-Field Integral Equation at the Internal Resonances through the Computation of its Numerical Null Space”, International Journal of Applied Electromagnetics and Mechanics, vol.32, pp.63-72, 2010.
- (28) Angiulli G., Isernia T., Tringali S., “Modeling Realistic Contrast Maps from MRI Images for Microwave breast Cancer Detection”, IEEE Antennas and Propagation Magazine, vol.53, pp.113-122, 2011.
- (29) Angiulli G., De Carlo D., Isernia T., “A Sensitivity Study for Microwave Breast Cancer Detection Using the Contrast Source Integral Equation and Realistic Anthropomorphic numerical -D Phantoms”, IET Electronics Letters, vol.48, pp.13-14, 2012.
- (30) Angiulli G., “Design of Square Substrate Integrated Waveguide Cavity Resonators: Compensation of Modelling Errors by Support Vector Regression Machines”, American Journal of Applied Sciences, vol.9, pp.1872-1875, 2012.
- (31) Angiulli G., De Carlo D., Isernia T., “A Sensitivity Study for Microwave Breast Cancer Detection Using the Contrast Source Integral Equation and 3-D Realistic Anthropomorphic Phantoms”, International Journal of Applied Electromagnetics and Mechanics, vol.43, no. 3, pp.207-214, 2013.
- (32) Boccia L., Amendola G., Angiulli G., “Single layer dual band reflectarray cell”, IEICE Electronics Express, vol.10, no. 12, pp.20130310, 2013.
- (33) Angiulli G., Amendola G., Arnieri E., “A simple preconditioner based on skew-Hermitian part of the discretized E-field Integral Equation”, IEICE Electronics Express, vol.10, no. 14, pp.20130477, 2013.
- (34) Amendola G., Angiulli G., Arnieri E., Abaei E., De Carlo D., “A hybrid neural model for the characterization of a single layer SIW waveguide”, IEICE Electronics Express, vol.10, no. 18, pp.20130613, 2013.
- (35) Amendola G., Angiulli G., Arnieri E., Boccia L., “Computation of the resonant frequency and quality factor of lossy substrate integrated waveguide resonators by method of moments”, Progress in Electromagnetics Research Letters PIER-L, vol.40, pp.107-113, 2013.
- (36) Amendola G., Angiulli G., Arnieri E., Boccia L., De Carlo D., “Characterization of lossy SIW resonators based on multilayer perceptron neural networks on graphics processing unit”, Progress in Electromagnetics Research C PIER-C, vol.42, pp.1-11, 2013.
- (37) Amendola G., Angiulli G., Arnieri E., Boccia L., De Carlo D., “Empirical Relations for the Evaluation of Resonant Frequency and Quality Factor of the TM_{101} Mode of Circular Substrate Integrated Waveguide (SIW) Resonators”, Progress in Electromagnetics Research C PIER-C, vol.43, pp.165-173, 2013.

- (38) Amendola G., Angiulli G., Arnieri E., “*Rigorous Closed Form Expressions for the Input Admittance of a Coaxial Probe Radiating Into a Lossy Parallel Plate Waveguide. a Dyadic Green’s Function Approach.*”, Progress in Electromagnetics Research M PIER-M, vol.33, pp.153-167, 2013.
- (39) Angiulli G., Cacciola M., Calcagno S., De Carlo D., Morabito F. C., Sgró A., Versaci M., “*A numerical study on the performances of the flexible BiCGStab to solve the discretized E-field integral equation*”, International Journal of Applied Electromagnetics and Mechanics, vol.46, no. 3, pp.547-553, 2014.
- (40) Versaci M., Iannelli A., Angiulli G., Morabito F. C., “*Krylov’s Subspace Iterative Methods to Evaluate Electrostatic Parameters*”, American Journal of Applied Sciences, vol.11, no.3, pp.396-405, 2014.
- (41) Amendola G., Angiulli G., Arnieri E., and Boccia L. “*Efficient analysis of lossy SIW structures based on the parallel plates waveguide Green’s function and fast frequency sweep*”, Microwave and Optical Technology Letters, vol.57, n.10, pp.2435-2437, 2015.

10.2 National peer reviewed Journal

- (1) Amendola G., Angiulli G., Di Massa G., “*The Slotted Elliptic Cylinder Revisited*”, Atti della Fondazione Ronchi, SEP-OCT(5), anno LIII, pp. 585-595, 1998
- (2) Angiulli G., Amendola G., Di Massa G., “*Nearest Definite Pair for the Generalized Eigenproblem Applied to the Computation of the Characteristic Modes*”, Atti della Fondazione Ronchi, JUL-OCT(4-5), anno LIV, pp.839-844, 2001.
- (3) Angiulli G., Barrile V., Cacciola M., “*Metodi di Elaborazione di immagini SAR: un’applicazione di Support Vector Machines*”, GEOMedia, vol.2, pp.42-44, 2004.

10.3 Book chapters

- (1) Angiulli G., Barrile V., Versaci M., “*SAR Images Classification Using Fuzzy Subsethood Operator*” Frontiers in Artificial Intelligence and Applications, vol.82, pp.1466-1470, IOS Press, 2002.

10.4 International peer reviewed Conferences

- (1) Angiulli G., Di Massa G. “*Mutual Coupling Evaluation by Characteristic Modes in Multiple Scattering of Electromagnetic Field*”, 8th Mediterranean ELectrotechnical CONFERENCE, pp.580-583, Bari, Italy, 1996.
- (2) Amendola G., Angiulli G., Di Massa G., “*Scattering from Elliptical Cylinder by Use of Characteristic Modes*”, 12th Progress in Electromagnetics Research Symposium PIERS, pp. 96, Innsbruck, Austria, 1996.
- (3) Amendola G., Angiulli G., Di Massa G., “*Scattering from Arbitrarily Shaped Cylinders by Use of Characteristic Modes*”, Applied Computational Electromagnetic Society Symposium, pp. 1290-1295, Monterey, California, Usa, 1997.

- (4) Angiulli G., Di Massa G., “*Scattering from Arbitrarily Shaped Microstrip Patch Antennas Using the Theory of Characteristic Modes*”, IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, pp. 1830-1833, Atlanta, Georgia, Usa, 1998.
- (5) Angiulli G., Di Massa G., “*Radiation from Arbitrarily Shaped Microstrip Patch Antennas Using the Theory of Characteristic Modes*”, 14th Progress in Electromagnetics Research Symposium PIERS, pp. 204, Nantes, France, 1998.
- (6) Angiulli G., Di Massa G., “*Mutual Coupling Evaluation in Microstrip Arrays by Characteristic Modes*”, AP 2000 (ICAP+JINA) Millennium Conference on Antennas and propagation, pp.465, Davos, Switzerland, 2000.
- (7) Angiulli G., Di Massa G., “*Application of Characteristic Modes to the Analysis of Microstrip Arrays*”, 16th Progress in Electromagnetics Research Symposium PIERS, Boston, Massachusetts, Usa, 2000.
- (8) Angiulli G., Amendola G., Di Massa G., “*Higham-Cheng Algorithm for Solving the Generalized Eigenproblem Applied to the Computation of the Characteristic Modes*”, IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, pp.646-648, Boston, Massachusetts, Usa, 2001.
- (9) Costanzo S., Angiulli G., Di Massa G., B. Bertucci, S. Gabriele, “*A C Band Scatterometer Radar for the Monitoring of Coastal Dynamic Process*”, Specialist Conference on Remote Sensing 01, Denver, Colorado, Usa, 2001
- (10) Venneri F., Angiulli G., Di Massa G., “*Electromagnetic Scattering from Reflectarray*”, International Conference on Electromagnetics in Advanced Applications ICEAA, pp. 783-784, Torino, Italy, 2001.
- (11) Angiulli G., Amendola G., Di Massa G., “*Spectral Domain Green’s Function for the Dielectric Coated perfectly Conducting Elliptic Cylinder*”, 18th Progress in Electromagnetics Research Symposium PIERS, Boston, Massachusetts, Usa, 2002.
- (12) Amendola G., Angiulli G., Di Massa G., “*Radiation from Current Distribution Placed on a Dielectric Coated Elliptic Cylinder*”, invited paper on International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, pp.32, San Antonio, Texas, Usa, 2002.
- (13) Angiulli G., Versaci M., “*Resonant Frequency Evaluation of Microstrip Antennas Using a Neural Fuzzy Approach*”, The Tenth Biennial IEEE Conference on Electromagnetic Field Computation CEFC, pp.368, Perugia, Italy, 2002.
- (14) Venneri F., Boccia L., Angiulli G., Amendola G., Di Massa G., “*An Experimental Approach to Active and Passive Reflectarray Design*”, 32ND European Microwave Conference (32NDEuMC), pp.1-4, Milano, Italy, 2002.
- (15) Venneri F., Boccia L., Angiulli G., Amendola G., Di Massa G., “*Experimental Design of Passive and Active Microstrip Reflectarrays*”, 12^e Journées Internationales De Nice Sur Les Antennes (JINA), Nice, France, 2002.

- (16) Angiulli G., Barrile V., Versaci M., “*Fuzzy Entropy Calculation for SAR Images Classification*”, Proceedings on IEEE International Geoscience and Remote Sensing Symposium IGARSS, pp.1802 - 1804, Toulouse, France, 2003.
- (17) Costanzo S., Venneri F., Di Massa G., Angiulli G., “*Microstrip Permanent Scatterer for SAR Interferometry Applications*”, Proceedings on IEEE International Geoscience and Remote Sensing Symposium IGARSS, pp.2109 - 2111, Toulouse, France, 2003.
- (18) Costanzo S., Venneri F., Di Massa G., Angiulli G., “*A Synthesis Algorithm for Microstrip Reflectarray Design*”, IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, pp.235 - 238, Washington DC, Usa, 2003.
- (19) Boccia L., Venneri F., Amendola G., Angiulli G., Di Massa G. “*Development of Passive and Active Reflectarrays*”, Invited Paper, Progress in Electromagnetic Research Symposium PIERS, pp.528, Honolulu, Hawaii, USA, 2003.
- (20) Amendola G., Angiulli G., Boccia L., Costanzo S., Di Massa G., Venneri F., “*Microstrip Reflectarray as Versatile Solution for Beam Scanning and Multi Beam Applications*”, Invited Paper 3rd COST 284, Budapest, Hungary, 2003.
- (21) Amendola G., Angiulli G., Di Massa G. “*Antennas on Elliptical Surface*”, Invited Paper 3rd COST 284, Budapest, Hungary, 2003.
- (22) Venneri F., Angiulli G., Di Massa G., Costanzo S. “*Effects of the Different Incidence Angle between Feed and Elements in the Printed Reflectarray Design*”, International Conference on Electromagnetics in Advanced Applications ICEAA, pp.565-568, Torino, Italy, 2003.
- (23) Venneri F., Costanzo S., Di Massa G., Angiulli G., “*Slot-Coupled Microstrip Reflectarray Antennas*”, International Conference on Electromagnetics in Advanced Applications ICEAA, pp.577-579, Torino, Italy, 2003.
- (24) Angiulli G., A. Greco, Versaci M., “*A Fuzzy approach for SAR Images Classification*”, Mediterranean Conference on Modelling and Simulation MCMS, Reggio Calabria, Italy, 2003.
- (25) Angiulli G., Amendola G., Di Massa G. “*Radiation from Electric and Magnetic Current Distributions Placed on a Dielectric-Coated Conducting Elliptic Cylinder*”, The 20th Progress in Electromagnetic Research Symposium PIERS, Pisa, Italy, 2004.
- (26) Angiulli G., F. Angiulli, Di Massa G. “*An Algorithm for the Nonlinear Eigenvalue Problem with Application to the Computation of the Interior Resonances of EFIE*”, IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, pp.4068-4071, Monterey, California, Usa, 2004.
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