

Curriculum Vitae

Giovanni Angiulli

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

3 Professional Membership

- (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 Research Areas (Present and past)

- Surrogate Modeling; Electromagnetic Metamaterials; MEMS; Substrate Integrated Waveguide (SIW) devices; Microwave imaging to detect female breast tumours; Microstrip Antennas and Reflectarrays; Ground Penetrating Radar applications in cultural heritage; Fuzzy techniques for SAR image classification.

5 Work Experience

5.1 Teaching

5.1.1 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 2011/2012) *Microwave Design*, graduate degree course in Electronics Engineering;
- (from Academic Year 2011/2012 to Academic Year 2019/2020) *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 Academic Year 2018/2019) *Microwave Devices and Circuits*, undergraduate degree course in Information Engineering;
- (from Academic Year 2019/2020 to date) *Numerical Models for Electromagnetic Fields and Circuits*, graduate degree course in Electronics Engineering;
- (from Academic Year 2020/2021 to date) *Electromagnetic Compatibility*, graduate degree course in Electronics Engineering;

5.1.2 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;

5.1.3 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;

5.1.4 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.

5.1.5 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.

5.2 Assignments

5.2.1 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);

5.2.2 International Conferences

- (2013) *Member* of the Technical Program Committee: 2nd International Conference on Biomedical Engineering and Biotechnology (iCBEB 2013).
- (2017) Session chair: Computational Electromagnetics Advanced Algorithms and Emerging Applications 2, 2017 International Applied Computational Electromagnetics Society (ACES) Symposium, 2017, Firenze, Italy. dal 26-03-2017 al 30-03-2017
- (2017) Session organizer and co-chair: Special Session on Computational Intelligence and Related Techniques in Industrial and ICT Engineering, 27th Italian Workshop on Neural Networks, Vietri sul Mare, Salerno, Italy.

5.2.3 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*;
- (2015) Reviewer of the quality of the reseach outputs, South Africa’s National Research Foundation (NRF).

6 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 Competitività 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 sviluppo di ambienti intelligenti e Sostenibili), *Member of the project team*.

6.1 Miscellaneous

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

7 Peer Review Activity

7.1 Editorial Board Membership

- (2017 - to date) Associate Editor, IEEE Access;
- (2020 - to date) Academic Editor, PEERJ Computer Science;
- (2021) Guest Editor, Special Issue “Surrogate Modeling and Related Methods in Science and Engineering”, Mathematics.

7.2 Reviews

1. IEEE Access;
2. IEEE Transaction on Microwave Theory and Techniques;
3. IEEE Transaction on Antennas and Propagation;
4. IEEE Transaction on Magnetics - Conferences;
5. IEEE Transaction on Biomedical Engineering;
6. IEEE Antennas and Propagation Magazine;
7. IEEE Antennas and Wireless Propagation Letters;
8. IET Electronics Letters;
9. Progress in Electromagnetic Research;
10. International Journal of Applied Electromagnetics and Mechanics;
11. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields;
12. International Journal of Antennas and Propagation,
13. Applied Computational Electromagnetics Society Journal;
14. ACES Express Journal;
15. Journal of Microwaves, Optoelectronics and Electromagnetic Applications;
16. Electronics;
17. Wireless Networks;
18. Micromachines;
19. Sensors;
20. Artificial Intelligence review;
21. Neural Computing and Application;
22. Advances in Fuzzy Systems;
23. Computational Intelligence and Neuroscience;

- 24. Mathematics;
- 25. Computation;
- 26. Axioms;
- 27. Entropy;

8 Awards and Honors

- (2018) He has been honoured as an Outstanding Associate Editor by the IEEE Access Editorial Board in recognition of his exceptional contributions.
- (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.
- (2004, 2006) the course "Methods for Microwave Engineering" was recognized as one of the "Best Courses" offered at University *Mediterraena* of Reggio Calabria;

9 Scientific Publications

9.1 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*”, PIER 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*”, PIER 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: Compensaion 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 Antrophomorphic 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.
- (42) Angiulli, G., De Carlo, D., Sgró, A., Versaci, M., and Morabito, F. C., “*Accurate modelling of lossy SIW resonators using a neural network residual kriging approach*”, IEICE Electronics Express, 14(6), 20170073-20170073, 2017.
- (43) Versaci, M., Morabito, F. C., and Angiulli, G., (2017) “*Adaptive image contrast enhancement by computing distances into a 4-dimensional fuzzy unit hypercube*”, IEEE Access, 5, 26922-26931, 2017.

- (44) Versaci, M., La Foresta, F., Morabito, F. C., and Angiulli, G., “*A fuzzy divergence approach for solving electrostatic identification problems for NDT applications*”, International Journal of Applied Electromagnetics and Mechanics, 57(2), 133-146, 2018.
- (45) Angiulli, G., Jannelli, A., Morabito, F. C., and Versaci, M., “*Reconstructing the membrane detection of a 1 D electrostatic-driven MEMS device by the shooting method: convergence analysis and ghost solutions identification*”, Computational and Applied Mathematics, 37(4), 4484-4498, 2018.
- (46) Versaci, M., Angiulli, G., Fattorusso, L., and Jannelli, A., “*On the uniqueness of the solution for a semi-linear elliptic boundary value problem of the membrane MEMS device for reconstructing the membrane profile in absence of ghost solutions*”, International Journal of Non-Linear Mechanics, 109, 24-31, 2019.
- (47) Angiulli, G., Calcagno, S., De Carlo, D., Lagan, F., and Versaci, M., “*Second-Order Parabolic Equation to Model, Analyze, and Forecast Thermal-Stress Distribution in Aircraft Plate Attack Wing- Fuselage*”, Mathematics, 8(1), 6, 2020.
- (48) Versaci, M., Angiulli, G., di Barba, P., and Morabito, F. C., “*Joint use of eddy current imaging and fuzzy similarities to assess the integrity of steel plates*”, Open Physics, 18(1), 230-240, 2020.
- (49) Versaci, M., Angiulli, G., and Jannelli, A., “*Recovering of the membrane profile of an electrostatic circular MEMS by a three-stage Lobatto procedure: A convergence analysis in the absence of ghost solutions*”, Mathematics, 8(4), 487.
- (50) Angiulli, G., Versaci, M., and Calcagno, S., “*Computation of the Cutoff Wavenumbers of Metallic Waveguides with Symmetries by Using a Nonlinear Eigenproblem Formulation: A Group Theoretical Approach. Mathematics*”, 8(4), 489, 2020.
- (51) Angiulli, G., Versaci, M., Calcagno, S., and Di Barba, P., “*Quick retrieval of effective electromagnetic metamaterial parameters by using a Multi-fidelity Surrogate Modelling approach*”, The European Physical Journal Applied Physics, 90(2), 20901, 2020.
- (52) Versaci, M., Jannelli, A., and Angiulli, G., “*Electrostatic micro-electro-mechanical-systems (MEMS) devices: a comparison among numerical techniques for recovering the membrane profile*” IEEE Access, 8, 125874-125886, 2020.
- (53) Versaci, M., and Angiulli, G., “*Electrostatic Capacity of a Metallic Cylinder: Effect of the Moment Method Discretization Process on the Performances of the Krylov Subspace Techniques*”, Mathematics, 8(9), 1431, 2020.
- (54) Versaci, M., Angiulli, G., and La Foresta, F., “*A modified heart dipole model for the generation of pathological ECG signals*”, Computation, 8(4), 92, 2020.
- (55) Versaci, M., Jannelli, A., Morabito, F. C., and Angiulli, G., “*A Semi-Linear Elliptic Model for a Circular Membrane MEMS Device Considering the Effect of the Fringing Field*”, Sensors, 21(15), 5237, 2021.
- (56) Angiulli, G., and Versaci, M., “*Retrieving the Effective Parameters of an Electromagnetic Metamaterial Using the Nicolson-Ross-Weir Method: An Analytic Continuation Problem Along the Path Determined by Scattering Parameters*”, IEEE Access, 9, 77511-77525, 2021.

9.2 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.

9.3 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.
- (2) Sgró, A., De Carlo, D., Angiulli, G., Morabito, F. C., Versaci, M., “*Accurate computation of Drude-Lorentz model coefficients of single negative magnetic metamaterials using a micro-genetic algorithm approach*”, Multidisciplinary Approaches to Neural Computing (pp. 47-55). Springer, Cham, 2018.

9.4 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 (32ND EuMC), 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.
- (27) Costanzo S., Venneri F., Di Massa G., Angiulli G. “*Improved form of a synthesis algorithm for microstrip reflectarrays design*”, IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, pp.235-238, Monterey, California, Usa, 2005.
- (28) Angiulli G., Barrile V., Cacciola M., “*The GPR Technology on the Seismic Damageability Assessment of Reinforce Concrete Building*”, The 21th Progress in Electromagnetic Research Symposium PIERS, pp. 303-307, Hangzhou, China, 2005.
- (29) Angiulli G., Barrile V., Cacciola M., “*SAR Imagery Classification Using Multi-Class Support Vector Machines*”, The 21th Progress in Electromagnetic Research Symposium PIERS, pp.218-222, Hangzhou, China, 2005.
- (30) Angiulli G., Versaci M., “*Comparison of Real Formulation to Solve Complex Linear System Arising in Computational Electromagnetics*”, The 21th Progress in Electromagnetic Research Symposium PIERS, pp.365, Hangzhou, China, 2005.
- (31) Angiulli G., Di Massa G., “*Stabilization of EFIE by Computing its Null Space*”, International Conference on Electromagnetics in Advanced Applications ICEAA, pp.435-438, Torino, Italy, 2005.

- (32) Angiulli G., “*Numerical Comparison of Interpolation Techniques for Phase Curve Reconstruction in Reflectarray Design*”, EUROCON The international conference on Computer as a Tool, pp. 856-857, Belgrade, Serbia & Montenegro, 2005.
- (33) Angiulli G., Cacciola M. and Versaci M., “*Microwave Devices and Antennas Modelling by Support Vector Regression Machines*”, The Twelfth Biennial IEEE Conference on Electromagnetic Field Computation CEFC, pp.299, Miami, Florida, Usa, 2006.
- (34) Angiulli G., R. Eportentosi, “*Numerical Validation of Smallest Singular Value Estimation Techniques Applied to Localization of EFIE Interior Resonances*”, The Twelfth Biennial IEEE Conference on Electromagnetic Field Computation CEFC, pp.273, Miami, Florida, Usa, 2006.
- (35) S. Tringali, Angiulli G., Di Massa G., “*Equivalent Real Formulations for Solving Complex Linear Systems in Computational Electromagnetics*”, 5e Conference Européenne sur les methodes numeriques en electromagnetisme NUM-ELEC, Lille, France, 2006.
- (36) Angiulli G., Barrile V., Cacciola M., “*Solving Electromagnetic Inverse Scattering Problems by SVRMs: a Case of Study Towards Real Georadar Applications*”, The 23th Progress in Electromagnetic Research Symposium PIERS, pp.1807-1811, Hangzhou, China, 2007.
- (37) Angiulli G., Arnieri E., De Carlo D., Amendola G., “*Feed Forward Neural Network Characterization of Circular SIW Resonators*”, IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, 2008.
- (38) Angiulli G., Tringali S., “*On the Preconditioning of the Algebraic Linear Systems Arising from Discretization of EFIE Integral Equation*”, IEEE International Symposium on Antennas and Propagation and the USNC/URSI National Radio Science Meeting, 2008.
- (39) Angiulli G., De Carlo D., Tringali S., Amendola G., Arnieri E., “*Modelling SIW Resonators Using Support Vector Regression Machines*”, The 24th Progress in Electromagnetic Research Symposium PIERS, Cambridge, Massachusetts, Usa, 2008.
- (40) Angiulli G., Tringali S., “*Convergence of Krylov Solvers and Choice of Basis and Weighting Set of Functions in the Moment Method Solution of Electrical Field Integral Equation*”, The 24th Progress in Electromagnetic Research Symposium PIERS, Cambridge, Massachusetts, Usa, 2008.
- (41) Angiulli G., Tringali S., “*A Pseudovariational Technique for the Phase Curve Reconstruction in Reflectarray Design*”, The 24th Progress in Electromagnetic Research Symposium PIERS, Cambridge, Massachusetts, Usa, 2008.
- (42) Angiulli G., Barrile V., Meduri G. M., Pucinotti R., Tringali S., “*Classing and Extracting Information from Radar Images*”, The 24th Progress in Electromagnetic Research Symposium PIERS, Cambridge, Massachusetts, Usa, 2008.

- (43) Angiulli G., Tringali S., “*EFIE Stabilization at Internal Resonances Computing its Numerical Null Space*”, The Thirteenth Biennial IEEE Conference on Electromagnetic Field Computation CEFC, Athens, Greece, 2008.
- (44) Angiulli G., Arnieri E., De Carlo D., Amendola G., “*Fast Nonlinear Eigenvalues Analysis of Arbitrarily Shaped Substrate Integrated Waveguide (SIW) Resonators*”, The Thirteenth Biennial IEEE Conference on Electromagnetic Field Computation CEFC, Athens, Greece, 2008.
- (45) Angiulli G., De Carlo D., Quattrone P., Tringali S., “*A Support Vector Regression Machine Model for a Coax-fed Circular Microstrip Antenna*”, The 25th Progress in Electromagnetic Research Symposium PIERS, pp. 484, 2009.
- (46) Angiulli G., Quattrone P., Tringali S., “*On the Relationship between Nonuniqueness of Electromagnetic Scattering Integral Equations and Krylov Subspace Methods*”, The 25th Progress in Electromagnetic Research Symposium PIERS, pp.18-21, 2009.
- (47) Angiulli G., Quattrone P., Tringali S., “*On the preconditioning of the Algebraic Linear System Arising from the Discretization of the EFIE*”, The 25th Progress in Electromagnetic Research Symposium PIERS, pp.577-579, 2009.
- (48) Angiulli G., Quattrone P., Tringali S., “*An Algebraic Preconditioner Based on Properties of the Skew-Hermitian part of the Linear Systems Arising from Discretization of the E-Field Integral Equation*”, International Conference on Electromagnetics in Advanced Applications ICEAA, pp.632-635, Torino, Italy, 2009.
- (49) Angiulli G., D’Urso M., Isernia T., Tringali S., “*Accurate Tools for Convergence Prediction of Serier Solutions of Contrast Source Integral Equations*”, 13th International Conference on Ground Penetrating Radar (GPR), pp.1-4, 2010.
- (50) Catapano I., Crocco L., Di Donato L., Angiulli G., Isernia T., Morabito A., Tringali S., Bucci O. M., “*Guidelines for effective microwave breast imaging: a numerical assessment against 3D anthropomorphic phantoms*”, Proceedings of the Fourth European Conference on Antennas and Propagation (EuCAP), pp.1-4, 2010.
- (51) Angiulli G., De Carlo D., Isernia T., “*A comparative study of different strategies to focus GPR images collected from archaeological investigations along the “Basilian monks’ Path of Faith”(Aspromonte National Park Southern Calabria, Italy)*”, 14th International Conference on Ground Penetrating Radar (GPR), pp.602-606, 2012.
- (52) Angiulli G., Calcagno S., De Carlo D., Sgró A., “*Urban Environment Path Loss Modelling by Support Vector Regression Machines on GPU*”, The 25th Progress in Electromagnetic Research Symposium PIERS, pp.577-579, 2012.
- (53) Angiulli G., Calcagno S., De Carlo D., Sgró A., “*Nested BiCGStab to Solve Complex Linear Systems Arising from Discretization of EFIE*”, The 25th Progress in Electromagnetic Research Symposium PIERS, pp.1318-1321, 2012
- (54) Angiulli G., De Carlo D., Isernia T., “*Focusing GPR Images Collected from Archeological Investigations along the “Basilian monks’ Path of Faith” (Aspromonte National Park Southern Calabria, Italy): Analysis of the Performances*

of Different Strategies”, The 25th Progress in Electromagnetic Research Symposium PIERS, pp.1313-1317, 2012

- (55) Angiulli G., Cacciola M., Calcagno S., De Carlo D., Morabito F. C., Sgró A., Versaci M., “*Flexible BiCGStab to solve the Discretized EFIE in Scattering Computation*”, IEEE Conference on Electromagnetic Field Computation CEFC, Budapest, 2012.
- (56) Sgró A., De Carlo D., Angiulli G., Morabito F.C., and Versaci M., “*Accurate computation of the Drude-Lorentz model coefficients of single negative magnetic metamaterials using a micro.genetic algorithm approach*”, 26th Italian Workshop on Neural Networks, Vietri sul Mare, Italy, 2016.
- (57) Angiulli, G., Versaci, M., Morabito, F. C., “*Computation of nonlinear eigenvalues related to parameters of microwave structures by using group theory*”. In 2017 International Applied Computational Electromagnetics Society Symposium-Italy (ACES) (pp. 1-2), 2017.
- (58) Angiulli, G., Versaci, M., Calcagno, S., Di Barba, P., “*Metamaterial unit cell characterization by using a multi-fidelity surrogate modelling approach*”. In 2019 19th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF) (pp. 1-2), 2019.
- (59) Versaci, M., Angiulli, G., Di Barba, P., Morabito, F. C., “*2D Eddy Currents Imaging & Fuzzy Similarities for Assessing the Integrity of Steel Plates*”. In 2019 19th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF) (pp. 1-2), 2019.

9.5 National Conferences

- (1) Amendola G., G.Angiulli, Di Massa G., “*I Modi Caratteristici per il Calcolo del Campo Diffuso da Strutture Cilindriche*”, XI Riunione Nazionale di Elettromagnetismo RiNEm, pp. 377-380, Firenze, 1996.
- (2) Angiulli G., Costanzo S., “*Tecniche Innovative per il Calcolo del Campo Diffuso da Cilindri di Forma Arbitraria*”, XII Riunione Nazionale di Elettromagnetismo RiNEm, pp. 363-366, Cetraro, 1998.
- (3) Angiulli G., Amendola G., Di Massa G., “*Nuove Tecniche per la Soluzione dei Problemi agli Autovalori in Elettromagnetismo Applicato: l’Algoritmo di Higham-Cheng*”, XIII Riunione Nazionale di Elettromagnetismo RiNEm, pp.181-184, Como, 2000.
- (4) Angiulli G., Barrile V., Boccia L., “*Riduzione dell’Influenza del fenomeno di Multipath nelle Misure GPS*”, VI IX Conferenza Nazionale della Federazione Italiana delle Associazioni Scientifiche per le Informazioni Territoriali e Ambientali ASITA, pp. 55-60, Genova, 2000.
- (5) Amendola G., Angiulli G., Di Massa G., “*Analisi della Radiazione da Distribuzioni di Corrente Poste su di un Cilindro Dielettrico Stratificato a Geometria Ellittica*”, XII Riunione Nazionale di Elettromagnetismo RiNEm, pp.476-479, Ancona, 2002.

- (6) Boccia L., Venneri F., Angiulli G., Amendola G., Di Massa G., “*Reflectarrays Attivi e Passivi: Analisi e Tecniche di Progetto*”, XII Riunione Nazionale di Elettromagnetismo RiNEm, pp.206-209, Ancona, 2002.
- (7) Angiulli G., Barrile V., Versaci M., “*Un Sistema a Basso Costo per L’Analisi di Dati SAR*”, IX IX Conferenza Nazionale della Federazione Italiana delle Associazioni Scientifiche per le Informazioni Territoriali e Ambientali ASITA, 2003.
- (8) Angiulli G., Barrile V., Versaci M., “*Estrazione di Caratteristiche Geometriche da Immagini SAR*”, IX Conferenza Nazionale della Federazione Italiana delle Associazioni Scientifiche per le Informazioni Territoriali e Ambientali ASITA, 2003.
- (9) Angiulli G., F. Angiulli, Di Massa G., “*Problema Non Lineare agli Autovalori e Risonanze Interne dell’EFIE: Un Algoritmo di Calcolo*”, XIII Riunione Nazionale di Elettromagnetismo RiNEm, pp.241-244, Cagliari, 2004.
- (10) Angiulli G., Amendola G., Costanzo S., Di Massa G. “*Numerical Techniques for Electromagnetic Field Analysis*”, I Workshop on Research Activities at the Department of Electronics, Computer and System Sciences, Cetraro (Cs), 2004.
- (11) Angiulli G., Amendola G., Boccia L., Costanzo S., Di Massa G. and Venneri F. “*Reflectarray as Versatile Antenna System*”, I Workshop on Research Activities at the Department of Electronics, Computer and System Sciences, Cetraro (Cs), 2004.
- (12) Angiulli G., Di Massa G., “*EFIE Stabilization by a Deflation Technique*”, XIII Riunione Nazionale di Elettromagnetismo RiNEm, Genova, 2006.
- (13) Angiulli G., Tringali S., Di Massa G., “*Formulazioni Reali Equivalenti per la Soluzione di Sistemi Lineari Complessi in Elettromagnetismo Computazionale*”, XIII Riunione Nazionale di Elettromagnetismo RiNEm, Genova, 2006.
- (14) Angiulli G., Tringali S., “*Un Precondizionatore per L’EFIE Basato sull’Impiego della sua Componente Antihermitiana*”, XIV Riunione Nazionale di Elettromagnetismo RiNEm, Lecce, 2008.
- (15) Amendola G., Angiulli G., Arnieri E., De Carlo D., “*Localizzazione delle Risonanze di Risonatori SIW di Forma Arbitraria Basata sul Computo di Autovalori Non Lineari*”, XIV Riunione Nazionale di Elettromagnetismo RiNEm, Lecce, 2008.
- (16) Angiulli G., D’Urso M., Isernia T., “*Forward Scattering Problems via Series Solutions: Accurate Tools for Convergence Prediction*”, XIV Riunione Nazionale di Elettromagnetismo RiNEm, Lecce, 2008.
- (17) Catapano I., Crocco L., Di Donato L., Soldovieri F., Bucci O. M., Angiulli G., Tringali S., Isernia T., “*Sviluppo ed Analisi di Strategie Efficienti per la Diagnostica a Microonde del Tumore al Seno*”, XIV Riunione Nazionale di Elettromagnetismo RiNEm, Benevento, 2010.
- (18) Angiulli G., Barrile V., De Carlo D., Isernia T., Meduri G., “*Caratterizzazioni ed indagini in ambito archeologico con GPR e TLS*”, Conferenza Nazionale della Federazione Italiana delle Associazioni Scientifiche per le Informazioni Territoriali e Ambientali ASITA, 2012.

- (19) Angiulli G., De Carlo D., Sgró A., “*Nested BiCGStab for non Hermitian linear system arising from discretization of the EFIE*”, Riunione Nazionale di Elettromagnetismo RiNEm, Roma, 2012.
- (20) Sgró A. De Carlo D., Angiulli G., “*A hybrid algorithm for overcoming the branch ambiguity problem in the retrieval of the equivalent parameters of a double negative metamaterial*”, Riunione Nazionale di Elettromagnetismo RiNEm, Roma, 2014.
- (21) Sgró A., De Carlo D., Angiulli G., Morabito F.C., Calcagno S., La Foresta F., Versaci M., “*Modello di Lorentz per metamateriali magnetici: valutazione accurata mediante algoritmi genetici*”, 31^a Riunione Annuale dei Ricercatori di Elettrotecnica, Genova, 2015.
- (22) Calcagno S., La Foresta F., Morabito F. C., Versaci M., Angiulli G., “*Tecniche di similarità in NDT-NDE*”, 31^a Riunione Annuale dei Ricercatori di Elettrotecnica, Genova, 2015.
- (23) Morabito F.C., Calcagno S., Campolo M., La Foresta F., Mammone N., Morabito G., Palamara I., Versaci M., Angiulli G., Dunn-Henkisen J., Kjar T. W., Bonanno L., Bramanti A., Bramanti P., Marino S., “*Studio di complessità delle dinamiche cerebrali mediante elaborazione di tracciati EEG*”, 31^a Riunione Annuale dei Ricercatori di Elettrotecnica, Genova, 2015.
- (24) Morabito F. C., La Foresta F., Versaci M., Angiulli G., “*Ruolo della simmetria per la computazione di autovalori non lineari relativi a parametri elettromagnetici di strutture a microonde*”, 32^a Riunione Annuale dei Ricercatori di Elettrotecnica, Palermo, 2016.
- (25) Morabito F.C., La Foresta F., Versaci M., Angiulli G., “*Eddy Currents & Fuzzy Similarities per la valutazione della profondità di difetti*”, 32^a Riunione Annuale dei Ricercatori di Elettrotecnica, Palermo, 2016.
- (26) Versaci M., Angiulli G., “*The role of symmetry for the computation of nonlinear eigenvalues related to the electromagnetic parameters of microwave structures*”, XIII Bi-annual congress of the Italian Society of Industrial Mathematics, Milano, 2016.
- (27) Versaci M., Angiulli G., “*An Algebraic Soft Computing Approach to Solve Prediction Problems in Artificial Neural Networks Domain (ANNs)*”, XIII Bi-annual congress of the Italian Society of Industrial Mathematics, Milano, 2016.