

Dario Assante

Curriculum Vitae

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Education

Academic

2003–2005 **Ph.D. in Electrical Engineering**, *University of Naples Federico II*, Naples.

1998–2002 **Masters Degree in Electrical Engineering**, *University of Naples Federico II*, Naples, score 110/110 cum laude.

Vocational

2008 **International Winter School on Grid Computing Š08**, *ICEAGE program*.

2003 **Vocational Masters course on “Technical Experts for Accredited Metrology Laboratories”**, *University of Naples Federico II*, Naples.

Experience

2009–Present **Assistant Professor of Electical Engineering**, INTERNATIONAL TELEMATIC UNIVERSITY UNINETTUNO, Rome.

2008–2009 **Adjunct professor of Circuit theory**, UNIVERSITY OF NAPLES PARTHENOPE, Naples.

2008–2009 **Adjunct professor of Circuit theory**, UNIVERSITY OF SANNIO, Benevento.

2007–2008 **Research assistant**, UNIVERSITY OF NAPLES FEDERICO II, Rome.

Research activity on computational electromagnetics based on Grid computing.

Memberships in scientific and cultural associations

2006–Present Member of Institute of Electrical an Electronical Engineering

2004–Present Member of the Bureau of Engineers of the Province of Naples, Italy

Academic activities

2009–Present Coordinator of the Double Degree Program in ICT Engineering, organized by the International Telematic University Uninettuno in cooperation with Helwan University (Cairo, Egypt)

2011–Present Member of the Scientific Committee of the Master course in “Project management strategies and techniques”

Editorial activity

Editor of the JOURNAL OF COMPUTER ENGINEERING AND SCIENCE

Reviewer of the IEEE TRANSACTIONS ON MAGNETICS and of the International Conferences CEFC '10, EDUCATION '12, ACMOS '12, ICOSSE '12, SDSCIPHE '12, CSCC '12, CSCS '12, CSECS '12, CSST '13

Participation to national and international project

- 2012-2016 **Academic coordinator**, *Erasmus Mundus GreenIT*, Erasmus Mundus program.
- 2011-2015 **Academic coordinator**, *Erasmus Mundus MEDASTAR*, Erasmus Mundus program.
- 2010-2012 **Academic referee**, *NetCu - Networked curricula*, LLP program.
- 2010-2012 **Researcher**, *OELL - Open Educational Innovation & Incubation*, LLP program.
- 2010-2012 **Researcher**, *Realizzazione del sistema Regionale di Monitoraggio e Controllo di Campi Elettromagnetici in bassa ed alta frequenza in zone fortemente antropizzate*.
- 2006-2007 **Researcher**, *SAS - Security of Airport Structures*, EPCIP Program.
- 2006-2007 **Research assistant**, *Progetto S.Co.P.E.*, PON 200-2006.
- 2004-2005 **Researcher**, *PRIN N° 2004093025*.
- 2002-2003 **Researcher**, *PRIN N° 2002093437*.

Research activities

Lightning phenomena and overvoltages induced on transmission lines

- The problem of the characterisation of the lightning phenomenon and of the performances of transmission lines in case of direct or indirect lightning is investigated. The research covers three key aspects of the phenomenon:
 - The modelling of the lightning current and the study of current behaviour along the lightning discharge channel;
 - The propagation of the electromagnetic field in presence of conductive ground, both above and under the ground;
 - The study of overvoltages induced on transmission lines.

Electromagnetic modelling of particle accelerators cavities

- The research activity has the aim to examine cavities typically used in particle accelerators, in order to characterise the electromagnetic behaviour through the calculation of synthetic parameters such as the longitudinal and transverse coupling impedance. These parameters quantify the overall interaction between the structure and the travelling charge and are fundamental for the machine design.

High-speed interconnects

- The research activity aims to study full-wave models for the characterisation of high-speed interconnects, microstrips in particular. The activity is performed by developing semi-analytical and numerical models, in order to examine in a rigorous way the behaviour of complex geometries.

List of publications

Papers in refereed journals

- 1 R. Rizzo, A. Andreotti, **D. Assante**, A. Pierno, "Characteristic Impedance of Power Lines with Ground Wires", in press on *Przeglad Elektrotechniczny* (Electrical Review)
- 2 **D. Assante**, L. Verolino, "Efficient evaluation of the longitudinal coupling impedance of a plane strip", *Progress In Electromagnetics Research M*, Vol. 26, p. 251-265, October 2012.
- 3 A. Andreotti, **D. Assante**, V.A. Rakov, L. Verolino, "Electromagnetic Coupling of Lightning to Power Lines: Transmission Line Approximation versus Full-Wave Solution", *IEEE Transaction on EMC*, Vol. 53, Issue 2, pp. 421 - 428, May 2011.
- 4 D. Asprone, **D. Assante**, A. Chiariello, G. Manfredi, G. Miano, A. Prota, G. Rubinacci, "Case study: assessment of the electromagnetic disturbance of a glass fiber reinforced composite fencing structure", *Journal of Composites for Construction*, Vol. 14, Issue 5, pp. 629-635, September 2010.
- 5 **D. Assante**, S. D'Agostino, L. Verolino, "Shielding effect of a thin strip", *Electrical Engineering (Archiv fur Elektrotechnik)*, Vol. 91, No. 4-5, pp. 177-185, October 2009.
- 6 A. Andreotti, **D. Assante**, F. Mottola, L. Verolino, "An Exact Closed-Form Solution for Lightning-Induced Overvoltages Calculations", *IEEE Transactions on Power Delivery*, Vol. 24, No. 3, pp. 1328-1343, July 2009.
- 7 **D. Assante**, S. Falco, M. Lucido, G. Panariello, F. Schettino, L. Verolino, "Shielding Effect of a Strip of Finite Thickness", *Electrical Engineering (Archiv fur Elektrotechnik)*, Vol. 89, No. 2, December 2006.
- 8 A. Andreotti, **D. Assante**, S. Falco, L. Verolino, "An Improved Procedure for the Return Stroke Current Identification", *IEEE Transactions on Magnetics*, Vol. 41, No. 5, May 2005.
- 9 **D. Assante**, D. Davino, S. Falco, F. Schettino, L. Verolino, "Coupling Impedance of a Charge Traveling in a Drift Tube", *IEEE Transactions on Magnetics*, Vol. 41, No. 5, May 2005.

Books

- 10 P. Henderikx, G. Ubachs, P. Mata, B. Malik, M.L. Cacheiro, S. Virkus, F. Truyen, **D. Assante**, S. Caeiro, A.P. Teixeira Martinho, L. Morgado, A. Pereira, *SNetCu Handbook - Guidelines for organising networked curricula*, 2012. ISBN 978-90-79730-11-7.

Papers in Refereed International Conference Proceedings

- 11 **D. Assante**, A. Andreotti, L. Verolino, "Considerations on the Characteristic Impedance of Periodically Grounded Multiconductor Transmission Lines", *International Symposium on Electromagnetic Compatibility (EMC Europe 2012)*, Rome, 17-21 September 2012.

- 12 **D. Assante**, A. Caforio, R. Sepe, "University-external world organizational interfaces and knowledge transfer models: the case of the International Telematic University UNINETTUNO and Telecom Italia", Proceedings of the EADTU Annual Conference 2012, Paphos, Cyprus, 27-28 September 2012.
- 13 G. Ubachs, F. Truyen, **D. Assante**, "Networked Curricula Project", Proceedings of the EADTU Annual Conference 2012, Paphos, Cyprus, 27-28 September 2012.
- 14 **D. Assante**, R. Sepe, "A successful networked curriculum: the double degree in ICT Engineering between the International Telematic University Uninettuno and the Helwan University", Proceedings of the EADTU Annual Conference 2011, Eskisehir, Turkey, 03-04 November 2011.
- 15 **D. Assante**, F. Truyen, "Analysis of distance and blended teaching Networked Curricula", Proceedings of the EADTU Annual Conference 2011, Eskisehir, Turkey, 03-04 November 2011.
- 16 A. Wodecki, M. Jasinska, **D. Assante**, R. Sepe, "The best practices in designing university-external world organizational interfaces", Proceedings of the EADTU Annual Conference 2011, Eskisehir, Turkey, 03-04 November 2011.
- 17 **D. Assante**, R. Sepe, "An international cooperation experience between the International Telematic University Uninettuno and the Helwan University: the double degree in ICT Engineering", IEEE EDUCON 2011, Amman, Jordan, 04-06 April 2011.
- 18 A. Andreotti, **D. Assante**, F. Mottola, L. Verolino, "Fast and Accurate Evaluation of the Underground Lightning Electromagnetic Field", International Symposium on Electromagnetic Compatibility (EMC Europe 2008), Hamburg, September 2008.
- 19 **D. Assante**, A. G. Chiariello, W. Zamboni, "A Superficial Formulation for the broadband analysis of Planar Interconnects", International Symposium on Electromagnetic Compatibility (EMC Europe 2008), Hamburg, September 2008.
- 20 **D. Assante**, L. Verolino, "Transverse Line Parameters of Coupled Microstrips on a Lossy Substrate", 18th International Zurich Symposium on Electromagnetic Compatibility (EMC Zurich 2007), Munich, September 2007.
- 21 **D. Assante**, S. D'Agostino, L. Verolino, "Induced Currents on a Microstrip of Finite Thickness", International Symposium on Electromagnetic Compatibility (EMC Europe 2006), Barcelona, September 2006.
- 22 **D. Assante**, S. D'Agostino, L. Verolino, "Circumferential Slot in a Coaxial Cable", International Symposium on Electromagnetic Compatibility (EMC Europe 2006), Barcelona, September 2006.
- 23 **D. Assante**, S. Falco, L. Verolino, "Analysis of the Induced Currents on Lossy Coupled Microstrips", URSI General Assembly, New Delhi, October 2005, (invited).
- 24 **D. Assante**, S. Falco, L. Verolino, "Shielding Effect of a PMC Strip of Finite Thickness", IEEE Conference on Electromagnetic Field Computation (CEFC), Seoul, June 2004.

- 25 **D. Assante**, S. Falco, L. Verolino, "Narrow Circumferential Slot in a Coaxial Cable", IEEE Conference on Electromagnetic Field Computation (CEFC), Seoul, June 2004.
- 26 **D. Assante**, D. Davino, S. Falco, F. Schettino, L. Verolino, "Longitudinal Coupling Impedance of a Thick Iris in Waveguide", XII International Symposium on Theoretical Electrical Engineering (ISTET), Warsaw, June 2003.

Publications in journals and national conferences

- 27 **D. Assante**, L. Verolino, "Storia della Fulminologia", III Convegno Nazionale di Storia dell'Ingegneria, Naples, April 2010.
- 28 **D. Assante**, L. Verolino, "La scoperta dell'acqua calda (Storia dei dispositivi per lo sfruttamento dell'Energia Solare)", II Convegno Nazionale di Storia dell'Ingegneria, Naples, April 2008.
- 29 **D. Assante**, A. G. Chiariello, A. Maffucci, G. Miano, G. Rubinacci, A. Tamburino, S. Ventre, F. Villone, W. Zamboni, "Formulazione Integrale Superficiale per la Simulazione Full-Wave di Interconnessioni Planari", Terza Giornata di Studio: Il Metodo degli Elementi Finiti nelle Applicazioni dell'Ingegneria Elettrica e dell'Informazione, Rome, December 2007.
- 30 **D. Assante**, L. Verolino, "Le imprese polari del generale Umberto Nobile", I Convegno Nazionale di Storia dell'Ingegneria, Naples, May 2006.
- 31 **D. Assante**, L. De Menna, L. Verolino, "Lo sviluppo dei Metodi Integrali: un possibile paradigma per una Storia dell'Ingegneria", I Convegno Nazionale di Storia dell'Ingegneria, Naples, May 2006.