

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Name	<b>D'AMICO MICHELE</b>
Address	<b>DEIB – PIAZZA L. DA VINCI 32 – 20133 MILANO</b>
Telephone	<b>+39.02.2399.3613</b>
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E-mail	<b>michele.damico@polimi.it</b>
Nationality	Italian
Date of birth	1965

## WORK EXPERIENCE

- Dates (from – to) 2002 - present
- Name and address of employer Politecnico di Milano, Dipartimento di Elettronica e Informazione e Bioingegneria, Milan, Italy
- Type of business or sector Higher education and research (University)
- Occupation or position held Associate Professor
- Main activities and responsibilities Research and teaching. Institutional duties.
  
- Dates (from – to) 1993 - 2002
- Name and address of employer Politecnico di Milano, Dipartimento di Elettronica e Informazione
- Type of business or sector Higher education and research (University)
- Occupation or position held Assistant Professor
- Main activities and responsibilities Research

## EDUCATION AND TRAINING

- Dates (from – to) 1993-1996
- Name and type of organisation providing education and training University of Essex, Colchester, UK
- Principal subjects/occupational skills covered An Anisotropic Model of the Electromagnetic Properties of the Melting Layer, and Comparison with Radar Observations (tutor Prof. A.R. Holt)
- Title of qualification awarded Doctor of Philosophy (Ph.D.) in Mathematics
- Level in national classification n.a.
- (if appropriate)

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
  - Title of qualification awarded
- Level in national classification (if appropriate)

1983-1989  
 Politecnico di Milano, Milan, Italy  
 Electronics, Telecommunications  
 Master of Science (Laurea) in Electronic Engineering (Telecommunications)  
 n.a.

**PERSONAL SKILLS AND COMPETENCES**

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH  
 EXCELLENT  
 EXCELLENT  
 GOOD

TECHNICAL SKILLS AND COMPETENCES

RESEARCH ACTIVITIES

Research activities include antennas, electromagnetic wave propagation in the troposphere, and radarmeteorology.

Research activities in antennas are focused on the design of innovative, compact antennas for the UHF band and for higher frequencies; these include: antennas with reconfigurable radiation pattern and/or polarization state; metamaterial-based antennas; ZOR antennas; and antennas for the THz band.

In the recent past, research work carried out jointly by Politecnico di Milano and the Wireless System Laboratory of Drexel University (US), has led to the creation of ADANT ([www.adant.com](http://www.adant.com)), a very dynamic start-up whose mission is to exploit our intellectual property to develop and market novel and revolutionary antennas for next generation wireless communication systems.

Research activities on electromagnetic waves propagation are focused on the interaction between EM waves at frequencies above 10 GHz and the troposphere (and its constituents like gases, hydrometeors, etc.). Again, three main themes: development of a physical model for the prediction of interference, due to rain scatter, among independent satellite communication systems operating on the same frequency; investigation of the performance of a cluster of small Earth-space communication terminals employing small-scale, multiple-site diversity technique; characterization of the propagation of laser beams in the lower troposphere, for applications to Free-Space Optics communication systems.

Research activities on radarmeteorology have followed three main themes: first, the development of a software radar simulator, that generates the time series of the signals received by a meteorological polarimetric Doppler radar operating on a virtual environment. Second, the development of an anisotropic electromagnetic model of the melting layer. Third, the development of the new Radar Signal Processor of the S-band Doppler radar located in Spino d'Adda; this activity included the acquisition of the processing hardware and the implementation of the numerical algorithms.

Since May 2013 he is responsible for the experimental activities of the Spino d'Adda laboratory of the Politecnico di Milano, dedicated to the experimental investigation of EM waves in the troposphere.

## TEACHING ACTIVITIES AT POLITECNICO DI MILANO

Teaching of the course "Wireless and Mobile Propagation" - 5 credits (50 hours) A.Y. 2012/13, 2013/14, 2014/15, 2015/16, 2016/17, 2017/18.

Teaching of the course "Campi Elettromagnetici" (Electromagnetic Fields) - 10 credits (100 hours) – A.Y. 2012/13, 2013/14, 2014/15, 2015/16, 2016/17, 2017/18.

Teaching of the course "Radiopropagazione" (Radiowave Propagation) - 5 credits (50 hours) – A.Y. 2010/11, 2011/12.

Teaching of the course "Circuiti a Radiofrequenza e Antenne" (RF circuits and Antennas) - 10 credits (100 hours) – A.Y. 2003/04, 2004/05, 2005/06, 2006/07, 2007/08, 2008/09, 2009/10, 2010/11, 2011/12.

Teaching of the course "Campi Elettromagnetici" (Electromagnetic Fields) - 5 credits (50 hours) - A.Y. 2004/05, 2005/06, 2006/07, 2007/08.

Teaching of the course "Antenne" (Antennas) - 10 credits (100 hours) – A.Y. 1997/98, 1998/99, 1999/00, 2000/01, 2001/02, 2002/03, 2003/04.

## PUBLICATIONS

See "Annex A"

## AWARDS AND HONORS

IEEE Senior Member – November 2015

Bright future ideas award – UK consulate, UK Trade & Investment – Milan January 2010

Second prize Premio Nazionale Innovazione (PNI) – Perugia December 2009

First prize business plan competition Start-cup Milano Lombardia – Milan October 2009

Best business idea – Scouting ICT – Milan June 2009

## MAIN EXTERNAL ACADEMIC AND SCIENTIFIC ACTIVITIES

Visiting professor and lecturer of the course "*Radiopropagacion y medios de transmision*" (48 hours) at ESPOL - Escuela Superior Politecnica del Litoral, Guayaquil, Ecuador, in the period 16 November - 1 December 2015.

Visiting professor and lecturer of the course "*Radiopropagacion y medios de transmision*" (48 hours) at ESPOL - Escuela Superior Politecnica del Litoral, Guayaquil, Ecuador, in the period 17 November - 1 December 2014.

Member of the Scientific Committee of CNIT (National Inter-University Consortium for Telecommunications) for the period 2014 -2017.

Visiting professor and lecturer of the course "Radar Technology and Weather Observation" at UTM - University Teknologi Malaysia, Kuala Lumpur, Malaysia, in the period 27 November - 11 December 2011.

Visiting professor and lecturer of the course "*Radiopropagacion y medios de transmision*" (48 hours) at ESPOL - Escuela Superior Politecnica del Litoral, Guayaquil, Ecuador, in the period 18 October - 5 November 2011.

Reviewer for the "Dutch Technology Foundation (STW)" of proposals for financed research projects, March 2009.

Reviewer for the "Israel Science Foundation (ISF)" of proposals for financed research projects,

May 2008.

Reviewer for the "United States - Israel Binational Science Foundation (BSF)" of proposals for financed research projects, March 2007.

Member of the Technical Program Committee/ Designated Reviewer of the following international conferences: ICTEC2015, ICOCOE'2015, I4CT 2015, APACE 2014, ICOCOE'2014, ISWTA2013, RFM 2013, APACE 2012, ISWTA2012, ICEDSA 2012, ARP 2010, SARNOFF 2010, SARNOFF2009, ARP 2007, ARP 2006, EUMW 2002.

Also served as a reviewer for the following journals: IEEE Transactions on Signal Processing, Journal of Applied Meteorology and Climatology, Journal of Atmospheric and Oceanic Technology, Progress In Electromagnetics Research (PIER), Radio Science.

**SELECTED RESEARCH  
CONTRACTS  
(WITH PUBLIC ENTITIES ONLY)**

Responsible for DEIB (Politecnico di Milano) of the research project entitled "MOPRAM - Monitoraggio della Precipitazione con reti RAdio a Microonde", funded by Fondazione CARIPLO in April 2017 (duration 36 months).

Responsible for Politecnico di Milano of the European research contract entitled "X-WALD - Avionic X-band Weather signal modeling and processing vALidation through real Data acquisition and analysis", stipulated in the framework of the Clean Sky Joint Undertaking (FP7) in January 2014 (duration 18 months).

Responsible for Politecnico di Milano of the European research contract entitled "CLEOPATRA - CLeaner OPERations Attained Through Radars' Advance", stipulated in the framework of the Clean Sky Joint Undertaking (FP7) in April 2011 (duration 24 months).

Responsible of the research contract entitled "Ripristino, avvio operativo e manutenzione delle apparecchiature di proprietà ASI installate presso la Stazione di Spino d'Adda del Politecnico di Milano", stipulated between Politecnico di Milano (Dipartimento di Elettronica e Informazione) and Agenzia Spaziale Italiana (ASI) on February 4th 2009 (duration 18 months).

Responsible of the research contract entitled "Progettazione dell'adeguamento funzionale della rete radio del centro monitoraggio geologico e per la gestione del sistema radio a microonde di rilevamento pluviometrico", stipulated between Politecnico di Milano (Dipartimento di Elettronica e Informazione) and Agenzia Regionale per la Protezione dell'Ambiente della Lombardia on August 1st 2005 (duration 22 months).

Responsible of the research contract entitled " Trasmissione dati su linee elettriche", stipulated between Politecnico di Milano (Dipartimento di Elettronica e Informazione) and CESI (Centro Elettrotecnico Sperimentale Italiano) on July 19th 2005 (duration 6 months).

Responsible of the research contract entitled "Valutazione scientifica del rapporto TIM, riguardante l'installazione di un ripetitore per la telefonica mobile sul territorio del Comune di Cusano Milanino", stipulated between Politecnico di Milano (Dipartimento di Elettronica e Informazione) and Comune di Cusano Milanino on November 24th 2004.

Responsible of the research contract entitled "Sviluppo di un sistema di gestione dei rischi idrogeologici nell'area del Lago Maggiore: interconnessione dei sistemi ossevativi", stipulated between Politecnico di Milano (Dipartimento di Elettronica e Informazione) and Regione Piemonte on December 16th 2002.

Responsible of the research contract entitled "Evoluzione delle strutture piovose nella Pianura Padana", stipulated between Politecnico di Milano (Dipartimento di Elettronica e Informazione) and Ente Regionale di Sviluppo Agricolo della Lombardia (Regione Lombardia) on March 13th 2002 (duration 9 months).

Responsible of the European research contract entitled CEE EVK1-CT-2000-00060 "MANTISSA" (Microwave Attenuation as a New Tool for Improving Stormwater Supervision Administration), stipulated on February 1st 2001 with the European Commission in V Framework Programme (duration 36 months).

Responsible of the research contract entitled "Evoluzione delle strutture piovose nella Pianura Padana", stipulated between Politecnico di Milano (Dipartimento di Elettronica e Informazione) and Ente Regionale di Sviluppo Agricolo della Lombardia (Regione Lombardia) on July 24th 2000 (duration 9 months).

## ANNEX A : List of Publications

### PATENTS

- [1] D. Piazza, J. Kountouriotis, **M. D'Amico**, and K.R. Dandekar, "System and Methods For Selecting Reconfigurable Antennas In Mimo Systems", United States Patent No. 9,871,284 (January 2018).
- [2] D. Piazza, J. Kountouriotis, **M. D'Amico**, K.R. Dandekar, and P. Mookiah, "Reconfigurable Antennas and Configuration Selection Methods for Ad-Hoc Networks", United States Patent No. 9,565,717 (February 2017).
- [3] D. Piazza, **M. D'Amico**, and K.R. Dandekar, "Metamaterial Reconfigurable Antennas", Chinese Patent No. ZL201080062263.5 (December 2015).
- [4] D. Piazza, **M. D'Amico**, and K.R. Dandekar, "Metamaterial Reconfigurable Antennas", United States Patent No. 9,196,970 (November 2015).
- [5] D. Piazza, J. Kountouriotis, **M. D'Amico**, and K.R. Dandekar, "System and Methods For Selecting Reconfigurable Antennas In Mimo Systems", Chinese Patent No. ZL201080012828.9 (June 2015).
- [6] D. Piazza, and **M. D'Amico**, "Reconfigurable antenna system for radio frequency identification", United States Patent No. 8,967,485 (March 2015).
- [7] **M. D'Amico**, G. Gentili, M. Oldoni, C. Magistrone, O. Cattaneo, "Antenna dielettrica ottimizzata per trasmissioni a frequenze millimetriche", Application No. MI2011A002141 (2011).

### BOOKS

- [1] A. Paraboni, **M. D'Amico**, "*Radiopropagazione*", ISBN 88 386 6047-6, Ed. The McGraw-Hill Companies, Milano 2002, 280 pp.
- [2] **M. D'Amico**, G. G. Gentili, "*Esercizi di Campi Elettromagnetici*", ISBN 88 8132 031-2, Ed. CUSL, Milano 1996, 102 pp.

### INTERNATIONAL JOURNALS

- [1] S.L. Jong, H.Y. Lam, **M. D'Amico**, F. Cuervo, M. M. Yunus, J. Din, "Impact of Link Elevation Angles on Rain Attenuation Statistics in Heavy Rain Region Predicted Using the Synthetic Storm Technique", *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, Vol. 9, Num.3-8, pp.17-20, November 2017.
- [2] V. Rampa, G.G. Gentili, S. Savazzi, and **M. D'Amico**, "EM Models for Passive Body Occupancy Inference", *IEEE Antennas and Wireless Propagation Letters*, Vol. 16, pp.2517-2520, July 2017.
- [3] A. Radwan, V. Verri, **M. D'Amico**, G. G. Gentili, "Beam Reconfigurable Antenna for the THz Band Based on a Graphene High Impedance Surface", *Physica E: Low-dimensional Systems and Nanostructures*, Vol. 85, pp. 316-323, January 2017.
- [4] **M. D'Amico**, A. Manzoni, G.L. Solazzi, "Use of Operational Microwave Link Measurements for the Tomographic Reconstruction of 2D Maps of Accumulated Rainfall", *IEEE Geoscience and Remote Sensing Letters*, Vol. 13, No. 12, pp. 1827-1831, December 2016.
- [5] A. Radwan, **M. D'Amico**, J. Din, G.G. Gentili, V. Verri, "Bandwidth and Gain Enhancement of a Graphene-Based Metamaterial Antenna for the THz Band", *ARPJ Journal of Engineering and Applied Sciences*, Vol. 11, No. 10, pp. 6349-6354, May 2016.

- [6] S.L. Jong, J. Din, H.Y. Lam, and **M. D'Amico**, "Investigation of Ka-Band Satellite Communication Propagation in Equatorial Regions", *ARPJ Journal of Engineering and Applied Sciences*, Vol. 10, No. 20, pp. 9795-9799, November 2015.
- [7] V. Rampa, S. Savazzi, M. Nicoli, and **M. D'Amico**, "Physical modeling and performance bounds for device-free localization systems", *IEEE Signal Processing Letters*, Vol. 22, Issue 11, pp.1864-1868, November 2015.
- [8] S.L. Jong, **M. D'Amico**, J. Din, and H.Y. Lam, "Analysis of Fade Dynamic at Ku-Band in Malaysia", *International Journal of Antennas and Propagation*, vol. 2014, Article ID 741678, 7 pages, January 2014. doi:10.1155/2014/741678.
- [9] **M. D'Amico**, S.L. Jong, and C. Riva, "Tipping bucket data processing for propagation application", *Electronics Letters*, Vol. 49, No. 8, pp. 1-2, April 2013.
- [10] J. Kountouriotis, D. Piazza, P. Mookiah, **M. D'Amico**, and K.R. Dandekar, "Reconfigurable Antennas and Configuration Selection Methods for MIMO Ad Hoc Networks", *EURASIP Journal on Wireless Communications and Networking*, 2011:147, pp. 1-14, October 2011.
- [11] D. Piazza, P. Mookiah, **M. D'Amico**, and K.R. Dandekar, "Experimental Analysis of Pattern and Polarization Reconfigurable Circular Patch Antennas for MIMO Systems", *IEEE Transactions on Vehicular Technology*, Vol. 59, No. 5, pp. 2352-2362, June 2010.
- [12] D. Piazza, **M. D'Amico**, and K.R. Dandekar, "Performance Improvement of a Wideband MIMO System by Using Two-Port RLWA", *IEEE Antennas and Wireless Propagation Letters*, vol. 8, pp. 830-834, 2009.
- [13] C. Capsoni, **M. D'Amico**, and R. Nebuloni, "Radar simulation and physical modeling of time diversity satellite systems", *Radio Science*, Vol. 44, pp. 1-9, RS4009, July 2009 (doi:10.1029/2009RS004142).
- [14] D. Piazza, J. Kountouriotis, **M. D'Amico**, K.R. Dandekar, "A Technique for Antenna Configuration Selection for Reconfigurable Circular Patch Arrays", *IEEE Transactions on Wireless Communications*, Vol. 8, No. 3, pp. 1456-1467, March 2009.
- [15] C. Capsoni, **M. D'Amico**, P. Locatelli, "Statistical Properties Of Rain Cells In The Padana Valley", *Journal of Atmospheric and Oceanic Technology*, Vol. 25, No. 12. pp. 2230–2244, December 2008.
- [16] C.Capsoni, **M. D'Amico**, "Performance of small-scale multiple-site diversity systems investigated through radar simulations", *Radio Science*, Vol. 42, RS1001, , pp. 1-11, January 2007 (doi:10.1029/2006RS003465).
- [17] **M. D'Amico**, A. Leva, B. Micheli, "Free-Space Optics Communication Systems: First Results From a Pilot Field-Trial in the Surrounding Area of Milan, Italy", *IEEE Microwave and Wireless Components Letters*, Vol. 13, No. 8, pp. 305-307, August 2003.
- [18] C. Capsoni, **M. D'Amico**, R. Nebuloni, "A Multiparameter Polarimetric Radar Simulator", *Journal of Atmospheric and Oceanic Technology* , Vol. 18, No. 11, pp. 1799-1809, 2001.
- [19] C. Capsoni, **M. D'Amico**, T. Tarsi, "Statistical Characterization of Path Attenuation of Radar Signals at C Band", *Journal of Atmospheric and Oceanic Technology* , Vol. 18, No. 4, pp. 609-615, 2001.
- [20] R. Nebuloni, V. Caboni, C. Capsoni, **M. D'Amico**, "An Investigation of Rain Echoes Correlation Properties Through Measurements and Simulations", *Physics and Chemistry of the Earth (EGS)*, Vol. 25, No. 10-12, pp. 1091-1095, 2000.
- [21] **M. D'Amico**, C. Capsoni, R. Nebuloni, "A Melting Layer Model Investigated Using Doppler Spectra", *Physics and Chemistry of the Earth (EGS)*, Vol. 25, No. 10-12, pp. 1069-1071, 2000.
- [22] C. Capsoni, **M. D'Amico**, and R. Nebuloni, "Impact of Drop Size Distribution on ZDR Estimation", *Electronics Letters*, Vol. 36, No. 3, pp. 252-253, 2000.

- [23] C. Capsoni, **M. D'Amico**, P. Maggi, "Characterisation of Multiple Site Diversity Systems Through Radar Simulations", *Atti della Fondazione Giorgio Ronchi*, Anno LIV, Nn. 3-4, pp. 323-328, 1999.
- [24] **M. D'Amico**, "Loaded TEM Cell Versus Free Space: Comparison of the E-Fields Inside Dielectric Spherical Objects", *IEEE Transactions on Electromagnetic Compatibility*, Vol. 41, No. 2, pp. 158-160, 1999.
- [25] **M. D'Amico**, "Dual Polarization, Frequency Agile Radar Investigated Using New Radar Simulator", *Electronics Letters*, Vol. 35, No. 4, pp. 335-336, 1999.
- [26] **M. D'Amico**, A.R. Holt, C. Capsoni "An Anisotropic Model of the Melting Layer", *Radio Science*, Vol. 33, No. 3, pp. 535-552, 1998.
- [27] C. Capsoni, **M. D'Amico**, "A Physically-Based Radar Simulator", *Journal of Atmospheric and Oceanic Technology*, Vol. 15, No. 2, pp. 593-598, 1998.
- [28] C. Capsoni, **M. D'Amico**, "A Physically Based, Simple Prediction Method for Scattering Interference", *Radio Science*, Vol. 32, No. 2, pp. 397, 1997.

## INTERNATIONAL CONFERENCES

- [1] B. Ramos, A. Nunez, S. Cando, and **M. D'Amico**, "Analysis of Rain Rate Estimations in Tropical Regions Using a 5 GHz Microwave Link", The 12th European Conference on Antennas and Propagation (EuCAP 2018), London, UK, 9-13 April 2018, pp. 1-5.
- [2] B. Ramos, **M. D'Amico**, M. Cordero, K. Hurtado, and A. Nunez, "Rain Rate Estimation using a Microwave Link in Guayaquil City", IEEE-ETCM 2017, Salinas, Ecuador, 16-20 October 2017, pp. 1-6.
- [3] V. Rampa, **M. D'Amico**, S. Savazzi, and G.G. Gentili, "Electromagnetic Models for Device-Free Localization Applications", ICEAA – IEEE APWC 2017, Verona, Italy, 11-15 September, 2017, pp. 1-4.
- [4] R. Nebuloni, C. De Michele, **M. D'Amico**, "Rainfall detection by tomographic inversion of commercial radio link data: a pilot project in Italy", 15th International Conference on Environmental Science And Technology (CEST 2017), Rhodes, Greece, 31 August – 2 September 2017, pp. 1-5.
- [5] L. Baldini, F. Berizzi, A. Coccia, F. Cuccoli, **M. D'Amico**, S. Lischi, A. Lupidi, F. Milani, "Precipitation Sensing Experiment with a Prototype Dual-Polarization Weather Radar for Civil Aircraft", 32<sup>nd</sup> URSI General Assembly and Scientific Symposium (GASS), Montreal, Canada, 19-26 August 2017, pp. 1-4.
- [6] S.L. Jong, H.Y. Lam, **M. D'Amico**, F. Cuervo, M. M. Yunus, J. Din, "Impact of Link Elevation Angles on Rain Attenuation Statistics in Heavy Rain Region Predicted Using the Synthetic Storm Technique", International Conference on Electrical and Electronic Engineering (IC3E 2017), Johor Bahru, Malaysia, 14-15 August, 2017, pp. 1-6.
- [7] F. Berizzi, F. Cuccoli, A. Coccia, F. Milani, **M. D'Amico**, L. Baldini, A. Lupidi, S. Lischi, A. Manzoni, L. Facheris, "First Measurements in Europe with an Avionic Polarimetric Weather Radar", 1st Italian Radar and Remote Sensing Workshop, Napoli, Italy, May 25-26, 2017.
- [8] F. Berizzi, F. Cuccoli, A. Coccia, F. Milani, **M. D'Amico**, L. Baldini, A. Lupidi, S. Lischi, A. Manzoni, "The X-WALD Project: First Measurements in Europe with an Avionic Polarimetric Weather Radar", 2017 IEEE Radar Conference (RadarConf'17), Seattle, USA, May 8-12, 2017, pp. 1-5.



- [9] **M. D'Amico**, A. Manzoni, B. Ramos, J.L. Santos, "Performance of Equatorial Multiple-Site Diversity Systems Evaluated from Rain Rate Time Series", The 11th European Conference on Antennas and Propagation (EuCAP 2017), Paris, France, 19-24 March 2017, pp. 1-5.
- [10] M. Coltelli, M. Bandinelli, **M. D'Amico**, A. Manzoni, E. Pecora, "VAPOR a novel radar system for improving the ash dispersal forecasting at Etna volcano", Cities on Volcanoes 9 (COV9), Puerto Varas, Chile, 20-25 November 2016.
- [11] A. Elkorany, S.M. Elhalafawy, A.H. Radwan, S. Shahid, **M. D'Amico**, and G.G. Gentili, "Design of Stacked Segmented Ultra Wide Band Antenna", 2016 Loughborough Antennas & Propagation Conference (LAPC 2016), Loughborough, UK, 14-15 November 2016, pp.1-4.
- [12] V. Verri, G.G. Gentili, A.H. Radwan, **M. D'Amico**, and A.V. Raisanen. "Reconfigurable High Impedance Surface with Graphene", 2016 Loughborough Antennas & Propagation Conference (LAPC 2016), Loughborough, UK, 14-15 November 2016, pp.1-4.
- [13] **M. D'Amico**, A. Manzoni, G.L. Solazzi, "Tomographic reconstruction of 2D rain fields from microwave link attenuation measurements", 46th European Microwave Conference (EuMC 2016), London, UK, 4-6 October 2016, pp.1-4.
- [14] S.L. Jong, H.Y. Lam, **M. D'Amico**, J. Din, "Analysis of Precipitation Characteristics Over Southern Peninsular Malaysia for Satellite Propagation Application", URSI Asia-Pacific Radio Science Conference (URSI AP-RASC 2016), Seoul, Korea, 21-26 August 2016, pp. 1-4.
- [15] V. Rampa, S. Savazzi, M. Nicoli, and **M. D'Amico**, "Physical modeling and performance bounds for device-free localization systems", The 41<sup>st</sup> International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, China, 20-25 March 2016, pp. 1-5.
- [16] A. Radwan, **M. D'Amico**, J. Din, G.G. Gentili, V. Verri, "Bandwidth and Gain Enhancement of a Graphene-Based Metamaterial Antenna for the THz Band", International Conference on Telecommunication, Electronic and Computer Engineering (ICTEC 2015), Melaka, Malaysia, 16-17 November, 2015, pp. 1-5.
- [17] C. Riva, G. Codispoti, L. Luini, R. Nebuloni, C. Capsoni, **M. D'Amico**, J. Nessel, G. Parca, E. Russo, "Preliminary results from the ASI and NASA Alphasat experimental equipment", 21<sup>st</sup> ka and Broadband Communications Conference", Bologna, Italy, 12-14 October, 2015.
- [18] B. Ramos, **M. D'Amico**, J. Santos, I. Nolivos, A. Manzoni, R. Ponguillo, J. Gómez, T. Chávez, "Measuring rain with microwave links: a pilot experiment in Ecuador", ICEAA – IEEE APWC 2015, Turin, Italy, 7-11 September, 2015, pp. 1-4.
- [19] A. Radwan, V. Verri, **M. D'Amico**, G. G. Gentili, "Switchable Frequency Selective Surfaces Reflector Based on Graphene For THz Receiver", ICEAA – IEEE APWC 2015, Turin, Italy, 7-11 September, 2015, pp. 1-4.
- [20] V. Verri, A. Radwan, G. G. Gentili, **M. D'Amico**, "Tunable Jerusalem Cross Frequency Selective Surface Based On Graphene", 45<sup>th</sup> European Microwave Conference (EuMC 2015), Paris, France, 6-11 September 2015, pp.1-4.
- [21] S.L. Jong, H.Y. Lam, J. Din, **M. D'Amico**, "Investigation of Ka-band Satellite Communication Propagation in Equatorial Regions", International Conference on Electrical and Electronic Engineering 2015 (IC3E 2015), Melaka, Malaysia, 10-11 August 2015, pp. 1-5.
- [22] A.H. Radwan, **M. D'Amico**, G.G. Gentili, V. Verri, "THz Nano-Array Antenna Based On a Monolayer Reflector Graphene Surface", URSI Atlantic Radio Science Conference (AT-RASC 2015), Gran Canaria, Canary Islands, May 18-22, 2015, pp.1-5.
- [23] A.H. Radwan, **M. D'Amico**, G.G. Gentili, V. Verri, "On The Effect of Chemical Potential on Mutual Coupling Between Graphene Patch Antennas At THz Band", URSI Atlantic Radio Science Conference (AT-RASC 2015), Gran Canaria, Canary Islands, May 18-22, 2015, pp. 1-4.
- [24] A.H. Radwan, **M. D'Amico**, G.G. Gentili, V. Verri, "Reconfigurable THz Metamaterial Antenna Based On Graphene", The 9th European Conference on Antennas and Propagation (EuCAP 2015), Lisbon, Portugal, 12-17 April 2015, pp. 1-5.

- [25] C. Riva, C. Capsoni, **M. D'Amico**, L. Luini, R. Nebuloni, G. Codispoti, "The Alphasat Aldo Paraboni Propagation Experiment", 4th IET Enterprise Workshop: RF technology for Aerospace: Trends, Challenges and Opportunities, Edinburgh, UK, 6 March 2015.
- [26] S.L. Jong, **M. D'Amico**, J. Din, H.Y. Lam, "Performance of Time Diversity Technique in Heavy Rain Region", 19<sup>th</sup> International Symposium on Antennas and Propagation (ISAP 2014), Kaohsiung, Taiwan, 2-5 December 2014, pp. 1-2.
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