

CV DAVIDE MICHELI

UPDATED TO 2024

SKILLS

- Ability to work in a team and coordinate activities, people and projects

LANGUAGES

- Inglese - TOEIC

WORK EXPERIENCE

- Via Oriolo Romano, 257 (Rome, Italy)
- 1989-Present

Telecom Italia

He currently works in Telecom Italia in the Radio Access Network Engineering sector, dealing with various issues related to the innovation and engineering of 4G and 5G mobile networks, including those related to the study of electromagnetic propagation.

In his work he deals with innovation and research. He is the scientific director of some university research collaborations between various universities and Telecom Italia.

In recent years, he has begun to deepen his work on machine learning techniques, in particular on statistical electromagnetic Big Data available in the radio access network in the context of smart cities.

An integral part of his work is the participation in European research projects, the publication of scientific research in accredited international journals. He is also the author of numerous international patents and papers.

In the past he had experience of people group coordination and Quality of service responsibility for two Italian Regions

EDUCATIO

2012-2014

NATIONAL SCIENTIFIC QUALIFICATION AS ASSOCIATE PROFESSOR

Rilasciato dal Ministero Istruzione Universitfi e Ricerca (MIUR)

Professor of Naval and Aerospace engineering

2011 -2012

MASTER

Sapienza University of Rome

Composites and Nanotechnologies for Aerospace

2008 -2011

DOCTORATE (PH.D)

Sapienza University of Rome

Aerospace Engineering

2002-2007

LAUREA

Sapienza University of Rome

Astronautic Engineering

1986-2001

LAUREA

Universitfi Politecnica delle Marche

Electronic and Telecommunication Engineering

1981-1986

Istituto Tecnico Statale Vito Volterra

PERITO TECNICO ELETRONICO

PATENT

1. Method and System for Determining Road Traffic Jams Based on Information Derived from a PLMN

US2010285772A1 (B2) • 2010-11-11 •

MICHELI DAVIDE

Earliest priority: 2007-12-27 • Earliest publication: 2009-07-09

A method of estimating traffic jams on a roads network includes receiving information from at least one cellular PLMN covering a geographic region wherein at least one road of the roads network to be monitored is located. The information includes data related to call traffic handled by the cellular PLMN in an at least one area of the geographic region, and an indication related to a mobility of mobile terminals into/out of the area. The method may further include providing an indication of traffic jam in the at least one road in case the call traffic handled by the cellular PLMN in the at least one area exceeds a first threshold and the indication related to the mobility of mobile terminals into/out of the area trespasses a second threshold.

2. DISPOSITIVO ASSORBITORE DI ONDE ELETTROMAGNETICHE A FREQUENZA DI ASSORBIMENTO REGOLABILE

ITRM20120569A1 • 2014-05-17 •

UNIV ROMA LA SAPIENZA

Earliest priority: 2012-11-16 • Earliest publication: 2014-05-17

No abstract available

Select result

3. TECNICA DI PROGETTO ED OTTIMIZZAZIONE DELLA RETE DI ACCESSO RADIO GSM.

ITRM20010718A1 • 2003-06-06 •

TELECOM ITALIA MOBILE SPA [IT]

Earliest priority: 2001-12-06 • Earliest publication: 2003-06-06

No abstract available

Select result

4. METHOD FOR CHARACTERIZATION OF PATHS TRAVELLED BY MOBILE USER TERMINALS

US2024196251A1 • 2024-06-13 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-04-14 • Earliest publication: 2022-10-14

Method for characterization of paths travelled by mobile user terminals, comprising: determining a geographical area of interest; detecting the presence of a plurality of mobile user terminals in said geographical area of interest. The method further comprises, for each of said mobile user terminals: receiving over time a plurality of information signals, each information signal including: a geographical position of said mobile user terminal, a time reference associated with said geographical position and at least one of a temporary identifier and a session identifier; based on said information signals, determining a path travelled by said mobile user terminal; calculating one or more indicators associated with said path, said one or more indicators being indicative of morphologic and dynamic features of said path; providing a characterization of said paths, based on said one or more indicators.

5. METHOD AND SYSTEM FOR GENERATING REFERENCE DATA FOR TRAFFIC CONDITION PREDICTION, AND METHOD AND SYSTEM FOR PREDICTING TRAFFIC CONDITIONS

EP4399701A1 • 2024-07-17 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-09-08 • Earliest publication: 2023-03-08

6. METHOD AND SYSTEM FOR DETERMINING INDOOR LOCATIONS OF USER DEVICES WITHIN A CELLULAR NETWORK

EP4371316A1 • 2024-05-22 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-07-12 • Earliest publication: 2023-01-12

7. DISPOSITIVO IN MATERIALE COMPOSITO NANO-STRUTTURATO A MEMORIA DI RESISTENZA ELETTRICA MULTI-STATO REGOLABILE

IT201800005078A1 • 2019-11-04 •

No applicant available

Earliest priority: 2018-05-04 • Earliest publication: 2019-11-04

8. METHOD AND SYSTEM FOR GENERATING REFERENCE DATA ASSOCIATED TO WEATHER CONDITIONS, METHOD AND SYSTEM FOR DETERMINING WEATHER CONDITIONS, AND METHOD AND SYSTEM FOR CONTROLLING A RADIO ACCESS NETWORK

US2024251255A1 • 2024-07-25 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2021-05-14 • Earliest publication: 2022-11-14

Generating reference data associated to weather conditions by determining a geographical area of interest; receiving, from wireless devices wirelessly connected to a Radio Access Network (RAN) measurement parameters representative of measurements of radio quality of the wireless connection between said wireless devices and the RAN, wherein said wireless devices are located in said area of interest, said measurement parameters being associated with respective time references; for each time reference or set of time references, determining reference data, associated to said time reference or set of time references, by performing an analysis of said measurement parameters; receiving a weather signal, representative of objective weather conditions in said area of interest at a time corresponding to said time reference of said set of time references; storing said reference data in association with the respective objective weather conditions associated to the same time reference or set of time references.

9. SISTEMA DI MONITORAGGIO DI VIBRAZIONE DI ANTENNA

IT202200005756A1 • 2023-09-23 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2022-03-23 • Earliest publication: 2023-09-23

10. METHOD FOR MANAGING A RADIO ACCESS COMMUNICATIONS NETWORK, AND RADIO ACCESS COMMUNICATIONS SYSTEM OPERATING ACCORDING TO SAID METHOD

US2023262486A1 • 2023-08-17 •

TELECOM ITALIA SPA [IT]

Earliest priority: 2020-07-20 • Earliest publication: 2022-01-20

Method for managing a radio access communications network, comprising: receiving, from each of a plurality of mobile user terminals in a determined geographical area, at least one report signal including: a first data item representative of a geographical position of the mobile user terminal; a second data item representative of a power at which transmission signals, sent by the radio access communications network, are received by the mobile user terminal. The method further comprises making first comparisons between a power at which the transmission signals are transmitted, and the second data items; determining a radio coverage map of the determined geographical area based on the first data items and the first comparisons; making a second comparison between the radio coverage map and reference data; applying modifications to the radio access communications network based on the second comparison.

11. OTTIMIZZAZIONE DI UNA RETE DI COMUNICAZIONI MOBILI

IT202200002738A1 • 2023-08-15 •
TELECOM ITALIA SPA [IT]

12. METHOD AND SYSTEM FOR DYNAMICALLY VARYING REFERENCE SIGNALS' POWER IN A MOBILE RADIO NETWORK

US11019577B2 (A1) • 2021-05-25 •
TELECOM ITALIA SPA [IT]

Earliest priority: 2015-10-30 • Earliest publication: 2017-05-04

A method of dynamically varying a power of a Reference Signal irradiated by a radio base station of a radio mobile network includes having a network entity monitoring a performance indicator associated with an area. The radio base station provides communication services to User Equipment located in a respective area served by the radio base station. The performance indicator is indicative of a communication channel state within the area. The method also includes either increasing or decreasing the power of the Reference Signal in the area based on a current value of the performance indicator. Either increasing or decreasing the power of the Reference Signal in the area based on a current value of the performance indicator includes modifying a power parameter referred to power of signals transmitted by the radio base station.

PUBLICATIONS:

TITLE	N°CIT
X-Band microwave characterization of carbon-based nanocomposite material, absorption capability comparison and RAS design simulation D Micheli, C Apollo, R Pastore, M Marchetti Composites Science and Technology 70 (2), 400-409	520
Synthesis and electromagnetic characterization of frequency selective radar absorbing materials using carbon nanopowders D Micheli, A Vricella, R Pastore, M Marchetti Carbon 77, 756-774	330
Electromagnetic shielding performance of carbon foams F Moglie, D Micheli, S Laurenzi, M Marchetti, VM Primiani Carbon 50 (5), 1972-1980	306
Broadband electromagnetic absorbers using carbon nanostructure-based composites D Micheli, R Pastore, C Apollo, M Marchetti, G Gradoni, VM Primiani, ...	279

TITLE	N°CIT
IEEE Transactions on Microwave Theory and Techniques 59 (10), 2633-2646	
Electromagnetic characterization and shielding effectiveness of concrete composite reinforced with carbon nanotubes in the mobile phones frequency band D Micheli, R Pastore, A Vricella, RB Morles, M Marchetti, A Delfini, ... Materials Science and Engineering: B 188, 119-129	132
Optimization of multilayer shields made of composite nanostructured materials D Micheli, C Apollo, R Pastore, D Barbera, RB Morles, M Marchetti, ... IEEE Transactions on Electromagnetic Compatibility 54 (1), 60-69	116
Nanostructured composite materials for electromagnetic interference shielding applications D Micheli, C Apollo, R Pastore, RB Morles, S Laurenzi, M Marchetti Acta Astronautica 69 (9-10), 747-757	115
Ballistic and electromagnetic shielding behaviour of multifunctional Kevlar fiber reinforced epoxy composites modified by carbon nanotubes D Micheli, A Vricella, R Pastore, A Delfini, A Giusti, M Albano, M Marchetti, ... Carbon 104, 141-156	105
Measurement of electromagnetic field attenuation by building walls in the mobile phone and satellite navigation frequency bands D Micheli, A Delfini, F Santoni, F Volpini, M Marchetti IEEE antennas and wireless propagation letters 14, 698-702	98
Broadband electromagnetic characterization of carbon foam to metal contact D Micheli, RB Morles, M Marchetti, F Moglie, VM Primiani Carbon 68, 149-158	86
Effect of graphene oxide and metallic fibers on the electromagnetic shielding effect of engineered cementitious composites A Mazzoli, V Corinaldesi, J Donnini, C Di Perna, D Micheli, A Vricella, ... Journal of Building Engineering 18, 33-39	85
Electromagnetic shielding of thermal protection system for hypersonic vehicles M Albano, D Micheli, G Gradoni, RB Morles, M Marchetti, F Moglie, ... Acta Astronautica 87, 30-39	82
Reduction of satellite electromagnetic scattering by carbon nanostructured multilayers D Micheli, R Pastore, G Gradoni, VM Primiani, F Moglie, M Marchetti Acta Astronautica 88, 61-73	76
Electromagnetic properties of carbon nanotube reinforced concrete composites for frequency selective shielding structures D Micheli, A Vricella, R Pastore, A Delfini, RB Morles, M Marchetti, ... Construction and Building Materials 131, 267-277	75
Carbon foam electromagnetic mm-wave absorption in reverberation chamber R Pastore, A Delfini, D Micheli, A Vricella, M Marchetti, F Santoni, ... Carbon 144, 63-71	66
Federated learning of explainable AI models in 6G systems: Towards secure and automated vehicle networking A Renda, P Ducange, F Marcelloni, D Sabella, MC Filippou, G Nardini, ... Information 13 (8), 395	54
Matter's electromagnetic signature reproduction by graded-dielectric multilayer assembly D Micheli, R Pastore, A Vricella, M Marchetti IEEE Transactions on Microwave Theory and Techniques 65 (8), 2801-2809	52
A comparison between different reception diversity schemes of a 4G-LTE base station in reverberation chamber: A deployment in a live cellular network M Barazzetta, D Micheli, L Bastianelli, R Diamanti, M Totta, P Obino, ... IEEE Transactions on Electromagnetic Compatibility 59 (6), 2029-2037	52
Node of Ranvier as an array of bio-nanoantennas for infrared communication in nerve tissue	49

TITLE	N°CIT
A Zangari, D Micheli, R Galeazzi, A Tozzi Scientific reports 8 (1), 539	
Electromagnetic characterization of materials by vector network analyzer experimental setup D Micheli, R Pastore, A Vricella, A Delfini, M Marchetti, F Santoni Spectroscopic methods for nanomaterials characterization, 195-236	49
Radar absorbing materials and microwave shielding structures design D Micheli Radar Absorbing Materials and Microwave Shielding Structures Design, 1-477	47
Power boosting and compensation during OTA testing of a real 4G LTE base station in reverberation chamber D Micheli, M Barazzetta, F Moglie, VM Primiani IEEE Transactions on Electromagnetic Compatibility 57 (4), 623-634	46
Determination of the electrical conductivity of carbon/carbon at high microwave frequencies G Gradoni, D Micheli, VM Primiani, F Moglie, M Marchetti Carbon 54, 76-85	46
A neural network for quality of experience estimation in mobile communications L Pierucci, D Micheli IEEE MultiMedia 23 (4), 42-49	45
Carbon based nanomaterial composites in RAM and microwave shielding applications D Micheli, R Pastore, C Apollo, M Marchetti, G Gradoni, F Moglie, ... 2009 9th IEEE Conference on Nanotechnology (IEEE-NANO), 226-235	41
Testing of the carrier aggregation mode for a live LTE base station in reverberation chamber D Micheli, M Barazzetta, C Carlini, R Diamanti, VM Primiani, F Moglie IEEE Transactions on Vehicular Technology 66 (4), 3024-3033	40
Electromagnetic characterization of advanced nanostructured materials and multilayer design optimization for metrological and low radar observability applications D Micheli, R Pastore, A Delfini, A Giusti, A Vricella, F Santoni, M Marchetti, ... Acta Astronautica 134, 33-40	38
Shielding effectiveness of carbon nanotube reinforced concrete composites by reverberation chamber measurements D Micheli, M Marchetti, R Pastore, A Vricella, G Gradoni, F Moglie, ... 2015 International Conference on Electromagnetics in Advanced Applications ...	36
Absorbing cross section in reverberation chamber: Experimental and numerical results G Gradoni, D Micheli, F Moglie, VM Primiani Progress In Electromagnetics Research B 45, 187-202	36
A new technology for production of high thickness carbon/carbon composites for launchers application M Albano, A Delfini, R Pastore, D Micheli, M Marchetti Acta Astronautica 128, 277-285	35
Tunable nanostructured composite with built-in metallic wire-grid electrode D Micheli, R Pastore, G Gradoni, M Marchetti AIP Advances 3 (11)	33
Over-the-air tests of high-speed moving LTE users in a reverberation chamber D Micheli, M Barazzetta, R Diamanti, P Obino, R Lattanzi, L Bastianelli, ... IEEE Transactions on Vehicular Technology 67 (5), 4340-4349	31
Temperature, atomic oxygen and outgassing effects on dielectric parameters and electrical properties of nanostructured composite carbon-based materials D Micheli, C Apollo, R Pastore, RB Morles, P Coluzzi, M Marchetti Acta Astronautica 76, 127-135	31
Base-station network planning including environmental impact control G Cerri, R De Leo, D Micheli, P Russo IEE Proceedings-Communications 151 (3), 197-203	30

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<p>Unraveling pedestrian mobility on a road network using ICTs data during great tourist events C Mizzi, A Fabbri, S Rambaldi, F Bertini, N Curti, S Sinigardi, R Luzi, ... EPJ Data Science 7 (1), 44</p>	28
<p>Electromagnetic characterization of composite materials and microwave absorbing modeling D Micheli, C Apollo, R Pastore, RB Morles, M Marchetti, G Gradoni Advances in nanocomposites-synthesis, characterization and industrial ...</p>	28
<p>Electromagnetic shielding of building walls: From Roman times to the present age D Micheli, P Gianola, G Bertin, A Delfini, R Pastore, M Marchetti, R Diana IEEE Antennas and Propagation Magazine 58 (5), 20-31</p>	27
<p>Multipath and Doppler characterization of an electromagnetic environment by massive MDT measurements from 3G and 4G mobile terminals A Scaloni, P Cirella, M Sgheiz, R Diamanti, D Micheli IEEE Access 7, 13024-13034</p>	26
<p>Coupling between multipath environments through a large aperture L Gagliardi, D Micheli, G Gradoni, F Moglie, VM Primiani IEEE Antennas and Wireless Propagation Letters 14, 1463-1466</p>	25
<p>CVD nano-coating of carbon composites for space materials atomic oxygen shielding A Delfini, A Vricella, RB Morles, R Pastore, D Micheli, F Gugliermetti, ... Procedia Structural Integrity 3, 208-216</p>	23
<p>Reverberation chambers for testing wireless devices and systems VM Primiani, M Barazzetta, L Bastianelli, D Micheli, F Moglie, R Diamanti, ... IEEE Electromagnetic Compatibility Magazine 9 (2), 45-55</p>	22
<p>Electromagnetic absorption properties of spacecraft and space debris D Micheli, F Santoni, A Giusti, A Delfini, R Pastore, A Vricella, M Albano, ... Acta Astronautica 133, 128-135</p>	20
<p>Over-the-air performance testing of a real 4G LTE base station in a reverberation chamber M Barazzetta, D Micheli, F Moglie, VM Primiani 2014 IEEE International Symposium on Electromagnetic Compatibility (EMC ...</p>	19
<p>Electromagnetic shielding of oriented carbon fiber composite materials D Micheli, S Laurenzi, VM Primiani, F Moglie, G Gradoni, M Marchetti 2012 ESA Workshop on Aerospace EMC, 1-5</p>	19
<p>Guest editorial special issue on applications of nanotechnology in electromagnetic compatibility (nano-emc) M D'Amore, MS Sarto, GW Hanson, A Naeemi, BK Tay IEEE Transactions on Electromagnetic Compatibility 54 (1), 2-5</p>	19
<p>Advanced concrete materials for EMI reduction in protected environment and IEMI threats suppression R Pastore, D Micheli, A Vricella, RB Morles, M Marchetti, F Moglie, ... 2015 IEEE 15th International Conference on Environment and Electrical ...</p>	18
<p>Handset and network quality performance benchmarking for QoE improvement D Micheli, A Curto, M Mazzurco, L Pierucci, R Fantacci, R Simoni 2013 IEEE Globecom Workshops (GC Wkshps), 1145-1150</p>	18
<p>Mitigation of human exposure to electromagnetic fields using carbon foam and carbon nanotubes D Micheli, M Marchetti Scientific Research Publishing</p>	17
<p>Shielding effectiveness statistical evaluation of random concrete composites L Bastianelli, S Capra, G Gradoni, D Micheli, A Vricella, V Corinaldesi, ... 2016 IEEE Metrology for Aerospace (MetroAeroSpace), 172-176</p>	16
<p>Densification of high thickness C/C composites by chemical vapor infiltration M Albano, R Pastore, A Delfini, D Micheli, F Volpini, M Marchetti Procedia Engineering 109, 381-389</p>	16
<p>Cellular network capacity and coverage enhancement with MDT data and deep reinforcement learning</p>	13

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M Skocaj, LM Amorosa, G Ghinamo, G Muratore, D Micheli, F Zabini, ... Computer Communications 195, 403-415	
Photons detected in the active nerve by photographic technique A Zangari, D Micheli, R Galeazzi, A Tozzi, V Balzano, G Bellavia, ... Scientific Reports 11 (1), 3022	13
Measurements of the outdoor-to-indoor attenuation of mobile phone signal D Micheli, A Delfini, M Marchetti, P Gianola, G Bertin, R Diana International Journal on Communications Antenna and Propagation (IRECAP) 4 (6)	13
Statistical analysis of interference in a real LTE access network by massive collection of MDT radio measurement data from smartphones D Micheli, R Diamanti 2019 Photonics & Electromagnetics Research Symposium-Spring (PIERS-Spring ...	11
Modeling of radar absorbing materials using winning particle optimization applied on electrically conductive nanostructured composite material D Micheli, R Pastore, M Marchetti International Journal of Material Science 2 (2), 31-38	10
An optimized neural network for monitoring key performance indicators in HSDPA L Pierucci, A Romoli, R Fantacci, D Micheli 21st Annual IEEE International Symposium on Personal, Indoor and Mobile ...	10
Reverberation chambers for testing LTE wireless communication systems L Bastianelli, G Gradoni, D Micheli, M Barazzetta, R Diamanti, F Moglie, ... 2017 International Conference on Electromagnetics in Advanced Applications ...	9
Modeling of microwave absorbing structure using winning particle optimization applied on electrically conductive nanostructured composite material D Micheli, C Apollo, R Pastore, M Marchetti The XIX International Conference on Electrical Machines-ICEM 2010, 1-10	9
Absorption cross section of building materials at mm wavelength in a reverberation chamber D Micheli, A Delfini, R Pastore, M Marchetti, R Diana, G Gradoni Measurement Science and Technology 28 (2), 024001	8
A new advanced railgun system for debris impact study A Vricella, A Delfini, A Pacciani, R Pastore, D Micheli, G Rubini, ... Procedia Structural Integrity 3, 545-552	8
Experimental characterization of building material absorption at mmWave frequencies: By using reverberation chamber in the frequency range 50–68 GHz F Santoni, R Pastore, G Gradoni, F Piergentili, D Micheli, R Diana, ... 2016 IEEE Metrology for Aerospace (MetroAeroSpace), 166-171	8
Estimation of mobility direction of a people flux by using a live 3G radio access network and smartphones in non-connected mode A Scaloni, D Micheli 2015 IEEE 15th International Conference on Environment and Electrical ...	8
4G-LTE base station output power estimation from statistical counters during over-the-air tests in reverberation chamber M Barazzetta, D Micheli, P Gianola, F Moglie, VM Primiani 2014 International Symposium on Electromagnetic Compatibility, 284-289	8
Method and system for determining road traffic jams based on information derived from a PLMN M Colonna, D Micheli US Patent 8,538,377	8
Rain effect on 4G LTE in-car electromagnetic propagation analyzed through MDT radio data measurement reported by mobile phones D Micheli, G Muratore, A Vannelli, A Scaloni, M Sgheiz, P Cirella IEEE Transactions on Antennas and Propagation 69 (12), 8641-8651	7

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<p>MIMO 4× 4 vs. MIMO 2× 2 performance assessment of a real life LTE base station in a reverberation chamber</p> <p>D Micheli, M Barazzetta, L Bastianelli, R Diamanti, C Carlini, M Colombo, ... AEU-International Journal of Electronics and Communications 129, 153500</p>	7
<p>Shell absorbing nanostructure for low radar observable missile</p> <p>D Micheli, R Pastore, A Vricella, M Marchetti 2015 7th International Conference on Recent Advances in Space Technologies ...</p>	7
<p>Synthesys of radar absorbing materials for stealth aircraft by using nanomaterials and evolutionary computation</p> <p>D Micheli, R Pastore, A Vricella, RB Morles, M Marchetti Paper presented 29th Congress of the International Council of the ...</p>	7
<p>Data-driven Predictive Latency for 5G: A Theoretical and Experimental Analysis Using Network Measurements</p> <p>M Skocaj, F Conserva, NS Grande, A Orsi, D Micheli, G Ghinamo, ... 2023 IEEE 34th Annual International Symposium on Personal, Indoor and Mobile ...</p>	6
<p>An effective method using reverberation chambers to measure TRP from mobile phones and power absorbed by user body</p> <p>A Gifuni, M Adil, G Grassini, A Buono, F Nunziata, D Micheli, M Migliaccio IEEE Transactions on Electromagnetic Compatibility 64 (4), 951-962</p>	6
<p>Testing of VoLTE mean opinion score in reverberation chambers</p> <p>M Barazzetta, M Colombo, L Bastianelli, F Moglie, V Mariani Primiani, ... IET Science, Measurement & Technology 14 (8), 949-954</p>	6
<p>Smartphones reference signal received power MDT radio measurement statistical analysis reveals people feelings during music events</p> <p>D Micheli, G Muratore 2019 Photonics & Electromagnetics Research Symposium-Spring (PIERS-Spring ...</p>	6
<p>Impact response of nanofluid-reinforced antiballistic kevlar fabrics</p> <p>R Pastore, G Giannini, RB Morles, M Marchetti, D Micheli Nanocomposites-New Trends and Developments</p>	6
<p>Ballistic characterization of nanocomposite materials by means of "Coil Gun" electromagnetic accelerator</p> <p>D Micheli, G Gradoni, R Pastore, C Apollo, M Marchetti The XIX International Conference on Electrical Machines-ICEM 2010, 1-6</p>	6
<p>Experimental analysis of the aging effects on shielding effectiveness of cementitious composites</p> <p>L Bastianelli, VM Primiani, F Moglie, J Donnini, A Mazzoli, V Corinaldesi, ... 2018 IEEE Symposium on Electromagnetic Compatibility, Signal Integrity and ...</p>	5
<p>Statistical analysis of smartphone MDT signaling power measurements for Radio Maritime LTE propagation study</p> <p>A Vannelli, D Micheli, G Muratore 2020 International Symposium on Electromagnetic Compatibility-EMC EUROPE, 1-6</p>	4
<p>X-ray attenuation properties of carbon nanotubes filled composite materials</p> <p>R Pastore, D Micheli, M Marchetti, E Angelini 2016 IEEE Metrology for Aerospace (MetroAeroSpace), 619-623</p>	4
<p>Nanomaterials in radar absorbing material design using particle swarm optimization and genetic algorithm</p> <p>D Micheli, C Apollo, R Pastore, M Marchetti 50th ISRAEL ANNUAL CONFERENCE ON AEROSPACE SCIENCES, Conference tag</p>	4
<p>Reduction of electromagnetic pollution in mobile communication systems by an optimized location of radio base stations</p> <p>G Cerri, R de Leo, D Micheli, P Russo Proceedings of the XXVIIth URSI General Assembly 864, 1-4</p>	4
<p>Measurement of Martian Soil Electromagnetic Absorption Cross Section from 800 MHz to 6 GHz for future Mars Cellular Telecommunication systems</p> <p>D Micheli, A Delfini, F Piergentili, R Pastore, F Santoni, M Marchetti</p>	3

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Solar radio emission as a disturbance of radiomobile networks G Muratore, T Giannini, D Micheli Scientific Reports 12 (1), 9324	3
High frequency propagation in large and multiply connected electromagnetic environments H Nasser, C Smartt, D Thomas, G Gradoni, D Micheli, S Creagh, G Tanner 2016 IEEE Metrology for Aerospace (MetroAeroSpace), 342-347	3
Low-cost low-observable satellites made of carbon nanostructured multilayers: Numerical investigation of scattering D Micheli, R Pastore, G Giannini, A Vricella, M Marchetti Proceedings of the 53rd Israel Annual Conference on Aerospace Sciences, Tel ...	3
Modeling and measuring of microwave absorbing and shielding nanostructured materials D Micheli, R Pastore, M Marchetti, G Gradoni, F Moglie, VM Primiani International Symposium on Electromagnetic Compatibility-EMC EUROPE, 1-5	3
" Coil Gun" electromagnetic accelerator for aerospace material anti-ballistic applications D Micheli, R Pastore, C Apollo, M Marchetti RIVISTA ITALIANA DI COMPOSITI E NANOTECNOLOGIE, 53-57	3
Un modello dinamico su un approccio big-data alla mobilità per lo studio della diffusione del Covid-19 nel Nord Italia D Micheli, G Muratore, A Vannelli, G Sola Gruppo TIM: Notiziario tecnico	2
Electromagnetic wave absorber composite structures for low observable unmanned air vehicle D Micheli, A Vricella, R Pastore, M Albano, M Marchetti 55th Israel Annual Conference on Aerospace Sciences 2015 2, 941-953	2
Railgun test of nano-reinforced layered composite materials for ballistic impact and electromagnetic shielding D Micheli, A Vricella, R Pastore, M Albano, M Marchetti, G Gradoni, ... Proc. of 54th IACAS (Israel 2014) 2, 1207-1215	2
Stochastic differential equation for wave diffusion in random media G Gradoni, R Pastor, D Micheli, F Moglie, VM Primiani, M Marchetti 2013 International Conference on Electromagnetics in Advanced Applications ...	2
Railgun application for high energy impact testing of nano-reinforced kevlar-based composite materials D Micheli, A Vricella, R Pastore, RB Morles, M Marchetti Proc.'6th European Conference on Space Debris'	2
Temperature, Atomic Oxygen and Outgassing effects on dielectric parameters and electrical properties of Nanostructured Composite Carbon-based Materials. D Micheli, C Apollo, R Pastore, P Coluzzi, M Marchetti Space Environmental Effects and Spacecraft Protection 9, 7350-7355	2
Individual mobility deep insight using mobile phones data C Mizzi, A Baroncini, A Fabbri, D Micheli, A Vannelli, C Criminisi, S Jean, ... EPJ Data Science 12 (1), 56	1
Experimental Investigation of 5G Base Station Functionalities in Reverberation Chamber at Millimeter-Wave M Colombo, R Diamanti, L Bastianelli, G Gradoni, E Colella, VM Primiani, ... IEEE Access	1
The Power of Data: How Traffic Demand and Data Analytics Are Driving Network Evolution toward 6G Systems D Sabella, D Micheli, G Nardini Journal of Sensor and Actuator Networks 12 (4), 49	1
Rome vehicle accidents analysis and city riskiness prediction by artificial intelligence G Muratore, A Vannelli, D Micheli Transportation Engineering 12, 100172	1

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