

MARIA ANTONIETTA MARSELLA  
Curriculum Vitae

**General Information**

Full Name
Date of Birth
Place of Birth
Citizenship
Permanent Address
Mobile Phone Number
E - mail
Spoken Languages

**Education**

1987	Master Degree in Physics - Sapienza University of Roma
1992	Ph.D. in Geodesy and Surveying - University of Bologna

**Academic Appointments**

1992 - 2000	Assistant Professor - Faculty of Engineering - Sapienza University of Roma
2001 - present	Associate Professor - Faculty of Engineering - Sapienza University of Roma
2013 - present	Qualified as Full Professor in Geomatic - Scientific National Habilitation (ASN) Agency

Research experience

1993 - 94	Visiting Scientist – GPS aided aerial photogrammetry - U.S. Geological Survey, Reston, Virginia
1987 - 89	Research collaboration - SLR data analysis - WEGENER/MEDLAS Project - Department of Geophysics, University of Bologna, Italy
1988	CNR Scholarship - Geodetic network analysis - Dept. of Geodesy and Surveying, University of Thessaloniki, Greece

Participation to PhD Programs

2011 - present	Member of the Scientific Board – PhD in Infrastructure and Transport - Sapienza University
2004 - 12	Associated Member of Scientific Board - PhD School in Geophysics - University of Bologna
2000 - 11	Member of the Scientific Board of PhD in Geoinformation - Tor Vergata University of Roma

Participation to Research Centers

2008 - present	Member of the Advisory Board of Aerospace Research Center (CRAS) – Sapienza University
2004 - 08	President of Remote Sensing Application and Methods Laboratory (RESAM) –Sapienza University
2000 - 10	Member of the scientific board of the Research Center on Hydrogeological Risks (CERI)



## Teaching experience

### Undergraduate and Master Programs

1996 - 2003	Civil and Construction Engineering - Sapienza University	Surveying
1998 - 2000	Environment and resources exploitation (Diploma) - Sapienza University (Latina)	Surveying
1999 - 2007	Civil and Environmental Engineering - Tor Vergata University	Surveying 1 e 2
2002 - 2003	Environment and resources exploitation (Diploma) - Sapienza University (Rieti)	Surveying
2002 - 2003	Sapienza University (Civitavecchia)	Surveying and remote sensing
2004 - 2008	Environmental Engineering (MS) - Sapienza University	Geomatic monitoring Methods
2004 - 2009	Civil Engineering (MS) - Sapienza University	Advanced Surveying
2004 - 2019	Civil Engineering (BS) - Sapienza University	Surveying
2009 - 2019	Civil Engineering (MS) - Sapienza University	Geomatic Monitoring
2016 - 2018	Space and Astronautic Engineering (MS) - Sapienza University	Observation and surveillance systems
2018 - 2019	Space and Astronautic Engineering (M) - Sapienza University	Space Geodesy and Geomatics

### Post - graduate Program

2014 - 2018	Master in Space Systems and Services - Sapienza University	Earth observation methods and applications
2013 - 2015	Etna Volcanological Observatory - INGV	Aerial and satellite surveying for natural hazard monitoring –
2003 - 2005	San Marco Project Research Center (Kenia) - Sapienza University	Mapping and GIS, Image Analysis and Remote Sensing Techniques of

## Institutional responsibilities

2006 - 10	Member of the Advisory Board - Dept. of Civil and Environmental Engineering - Sapienza University
2006 - 15	Coordinator of the Quality Assurance Team - Civil Engineering undergraduate program – Sapienza University
2002 - 08	Expert in the hazard evaluation board of Civil Protection during National Emergencies (Stromboli 2002 - 03 and 2007).
2009 - 11	Member of the FIGI Working Group (Group for cooperation between Engineering Faculty and Industries)
2017 - 18	Member of the Scientific and Technical Board of the Governmental Special Office on Reconstruction Policies after the Central Italy Earthquakes (2016 - 17)
2015 - 17	National Expert in the Group on Evaluation (GEV) of the National Agency for Evaluation of University and Research (ANVUR)

*Al. M. 2019*

## Commissions of Trust

2014 - 16	CNR – Member of evaluation board for permanent staff positions – Senior researcher - (072.000.R.001.2013)
2017	ASI – Member of evaluation board for permanent staff positions – Technology Director (10/2016)
2016 - 17	ASI – Member of evaluation board for permanent staff positions – Senior technologist (9/2016)
2017 - 18	INGV Bando n. V - T8 Member of evaluation board for permanent staff positions – Junior technologist
2017	INGV Bando n.AC - T1 Member of evaluation board for permanent staff positions – Junior technologist
2007 - 13	EU Commission Expert Evaluator RTD Programmes EU - FP7 (Space)
2002 - 06	EU Commission Expert Evaluator RTD Programmes EU - FP6 (Aeron&Space)

## International Research Collaboration

2015 - 16	Ecole Normale Supérieure & Centre National de la Recherche Scientifique (CNRS) Collaboration in Space Volcano Observatory for Pleiades (SVOP) project (CNES, BRGM)
2013 - 15	Ingeniería Civil, Universidad de Granada (Spain) Integration of photogrammetry and LIDAR techniques for landslides detection
2013 - 15	Deutsches Zentrum für Luft - und Raumfahrt e.V. (DLR) Analysis of TerraSAR - X maps to validate a ground - based monitoring sensor
2012 - 14	Universidad Autónoma de Entre Ríos (Argentina) - EO data and in - situ data to investigate the fire ecology in the Paraná river area (Argentina)
2012 - 15	EGO - European Gravitational Observatory - CNRS/INFN - High - precision geodetic network for Virgo Reference System upgrading
2008 - 12	National Research Institute for Earth Science and Disaster Prevention (NIED, Japan) - Validation of simulation models for lava flow propagation and disaster mitigation planning
2004 - 06	Deutsches Zentrum für Luft - und Raumfahrt e.V. (DLR) Testing of the performance of the HRSC - AX sensor (Mt Etna)
1996 - 00	Institut de Physique du Globe de Paris (IPGP, CNRS) - Kinematic GPS for controlling airborne photogrammetry and DEM validation

## Editorial Board

2017 - 18	Guest editor Special Issue of Sensors (MDPI) "Deformation Monitoring of Large Civil Infrastructures"
2018 - present	Guest editor - Special Issue of Remote Sensing "Monitoring Infrastructure Deformation"

## Society memberships, Awards and Honors

1996 - 03	FIG - International Federation of Surveyors - Co - Chair Working Group 5.3 – GPS Kinematic and Integrated Positioning
1993 - 94	ION - Institute of Navigation European Technical Advisor Satellite Division"
1996 - 99	IAG - International Association of Geodesy - Study Group SSG 1.155 International permanent GPS network for monitoring crustal deformations
2016	I premio - Bando Innovazione Femminile – Bando Promotori Tecnologici - POR FESR Lazio 2014 - 2020

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## Technology Transfer

- In 2008 started up Survey Lab, a spinoff company of Sapienza whose corporate governance includes academics, Engineers and PhDs. She is President of the Board of Directors and engaged in the coordination of R&D projects.
- In 2013 started the implementation stage for a monitoring service based on DInSAR data that in 2016 was granted by the EU in the SME Instrument Call.

## Funding Information [grants as PI - principal investigator or I - investigator]

- 20 years of experience in managing research projects in collaboration with scientific and industrial partners granted by national institutions (Education&Research Ministry, Infrastructure& Transportation Ministry, Civil Protection Dept., National Group of Volcanology, Italian Space Agency, Institute of Geophysics and Volcanology).
- PI or co - PI in projects funded by the European Commission (EU) and European Space Agency (ESA) in collaboration with many partners at international level
- Responsible of technical assistance contracts appointed by private companies and public entities such as National and Regional Offices and Municipalities
- Coordination of scientific and technical activities including budget and human resources management

## Research Activities

Synthetic Aperture Radar	<ul style="list-style-type: none"> <li>• Multi - temporal analysis for hydraulic forecast modelling calibration</li> <li>• Differential SAR Interferometry technique for monitoring built - up areas</li> <li>• Extraction and analysis of deformation pattern caused by anthropic and natural processes</li> </ul>
VISible and InfRared EO	<ul style="list-style-type: none"> <li>• Classification and change detection analysis using panchromatic and multispectral data for environmental applications</li> <li>• Multi-tempora analysis for landslides and lava flows mapping</li> <li>• Mapping production using High and Very High Resolution EO sensors</li> </ul>
Mapping and GIS	<ul style="list-style-type: none"> <li>• Satellite methods for Digital Elevation Models (DEMs) and orthophotos extraction</li> <li>• Airborne Laser Scanning (ALS) for 3D mapping and land cover classification</li> <li>• Standard definition for accuracy requirements of mapping products</li> </ul>
Photogrammetry and remote sensing for monitoring	<ul style="list-style-type: none"> <li>• GPS/INS platform in support of precise positioning of terrestrial sensors</li> <li>• Multi-sensor monitoring system for controlling Infrastructure &amp; Cultural Heritage</li> <li>• 3D modelling by means of terrestrial photogrammetry and laser scanning</li> <li>• Structural monitoring using ground - based radar interferometry (GBSAR)</li> </ul>
Airborne surveying	<ul style="list-style-type: none"> <li>• Precise positioning of airborne sensors based on GPS and INS systems</li> <li>• Validation of multi - sensor GPS configuration aided by On the Fly algorithms</li> </ul>
Space geodesy techniques	<ul style="list-style-type: none"> <li>• Analysis of SLR and GPS data for geodynamic studies</li> <li>• Advances GPS data processing approaches</li> </ul>

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## List of publication (WOS and SCOPUS)

List of the publications (the one selected for the evaluation are highlighted in the table). For each publication it is reported title, authors, reference data, journal IF (if applicable), citations.

Authors, Title, Conference Title, Conference Date, Editors, Source Title, Volume, Issue, Beginning Page, Ending Page, DOI	Year	IF	Total Citations - WOS	Average per Year - WOS	Total Citations Scopus
1. Corsetti, M.; Fossati, Fabrizio; Manunta, M.; Marsella, M., Advanced SBAS - DInSAR Technique for Controlling Large Civil Infrastructures: An Application to the Genzano di Lucania Dam, SENSORS, 18, (7),10.3390/s18072371	2018	2.475 (2017)	2	1	1
2. Scaioni, M.; Marsella, M.; Crosetto, M.; Tornatore, V.; Wang, Jin, Geodetic and Remote - Sensing Sensors for Dam Deformation Monitoring, SENSORS, 18, (11),10.3390/s18113682	2018	2.475 (2017)	1	0,5	0
3. Marsella, M.; Scaioni, M., Sensors for Deformation Monitoring of Large Civil Infrastructures, SENSORS, 18, (11),10.3390/s18113941	2018	2.475 (2017)	0	0	0
4. Coltelli, M.; d'Aranno, P. J. V.; de Bonis, R.; Tello, Jose F. Guerrero; Marsella, M.; Nardinocchi, C.; Pecora, E.; Proietti, C.; Scifoni, S.; Scutti, M.; Wahbeh, W., The Use of Surveillance Cameras for the Rapid Mapping of Lava Flows: An Application to Mount Etna Volcano, REMOTE SENSING, 9, (3),10.3390/rs9030192	2017	3.406	2	0,67	2
5. Scifoni, S.; Bonano, M.; Marsella, M.; Sonnessa, A.; Tagliaferro, V.; Manunta, M.; Lanari, R.; Ojha, C.; Sciotti, M., On the joint exploitation of long - term DInSAR time series and geological information for the investigation of ground settlements in the town of Roma (Italy), REMOTE SENSING OF ENVIRONMENT, 182,113, 127, 10.1016/j.rse.2016.04.017	2016	5.881	7	1,75	7
6. D'Aranno, P. J. V.; De Donno, G.; Marsella, M.; Orlando, L.; Renzi, B.; Salviani, S.; Santarelli, M. L.; Scifoni, S.; Sonnessa, A.; Verri, F.; Volpe, R, High - resolution geomatic and geophysical techniques integrated with chemical analyses for the characterization of a Roman wall, JOURNAL OF CULTURAL HERITAGE, 17,141, 150, 10.1016/j.culher.2015.06.005	2016	1.533	4	1	4
7. Palenzuela, J. A.; Marsella, M.; Nardinocchi, C.; Perez, J. L.; Fernandez, T.; Chacon, J.; Irigaray, C., Landslide detection and inventory by integrating LiDAR data in a GIS environment, LANDSLIDES, 12, (6), 1035, 1050, 10.1007/s10346 - 014 - 0534 - 5	2015	3.049	9	1,8	9
8. Marsella, M.; D'Aranno, P. J. V.; Scifoni, S.; Sonnessa, A.; Corsetti, M., Terrestrial laser scanning survey in support of unstable slopes analysis: the case of Vulcano Island (Italy), NATURAL HAZARDS, 78, (1), 443, 459, 10.1007/s11069 - 015 - 1729 - 3	2015	1.746	4	0,8	6
9. Sansosti, Eugenio; Manunta, M.; Casu, F.; Bonano, M.; Ojha, C.; Marsella, M.; Lanari, R., Radar remote sensing from space for surface deformation analysis: present and future opportunities from the new SAR sensor generation, RENDICONTI LINCEI - SCIENZE FISICHE E NATURALI, 26, S75, S84, 10.1007/s12210 - 015 - 0440 - 3	2015	0.412	0	0	0
10. Marsella, M.; Nardinocchi, C.; Proietti, C.; Daga, L.; Coltelli, M., Monitoring Active Volcanos Using Aerial Images and the Orthoview Tool, REMOTE SENSING, 6, (12), 12166, 12186, 10.3390/rs61212166	2014	3.180	3	0,5	4
11. Arangio, S.; Calo, F.; Di M., M.; Bonano, M.; Marsella, M.; Manunta, M., An application of the SBAS - DInSAR technique for the assessment of structural damage in the city of Rome, STRUCTURE AND INFRASTRUCTURE ENGINEERING, 10, (11), 1469, 1483, 10.1080/15732479.2013.833949	2014	1.454	32	5,33	29

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12. Coltelli, M.; Marsella, M.; Proietti, C.; Scifoni, S., The case of the 1981 eruption of Mount Etna: An example of very fast moving lava flows, GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, 13, 10.1029/2011GC003876	2012	2.939	10	1,25	10
13. Marsella, M.; Baldi, P.; Coltelli, M.; Fabris, M., The morphological evolution of the Sciara del Fuoco since 1868: reconstructing the effusive activity at Stromboli volcano, BULLETIN OF VOLCANOLOGY, 74, (1), 231, 248, 10.1007/s00445 - 011 - 0516 - 6	2012	2.653	24	3	28
14. Bonano, M.; Manunta, M.; Marsella, M.; Lanari, R., Long - term ERS/ENVISAT deformation time - series generation at full spatial resolution via the extended SBAS technique, INTERNATIONAL JOURNAL OF REMOTE SENSING, 33, (15), 4756, 4783, 10.1080/01431161.2011.638340	2012	1.138	38	4,75	43
15. Zeni, G.; Bonano, M.; Casu, F.; Manunta, M.; Manzo, M.; Marsella, M.; Pepe, A.; Lanari, R., Long - term deformation analysis of historical buildings through the advanced SBAS - DInSAR technique: the case study of the city of Rome, Italy, JOURNAL OF GEOPHYSICS AND ENGINEERING, 8, (3), S1, S12, 10.1088/1742 - 2132/8/3/S01	2011	0.634	20	2,22	20
16. Marsella, M. A.; Scifoni, S.; Coltelli, M.; Proietti, C., Quantitative analysis of the 1981 and 2001 Etna flank eruptions: a contribution for future hazard evaluation and mitigation, ALS OF GEOPHYSICS, 54, (5), 492, 498, 10.4401/ag - 5334	2011	0.567	1	0,11	1
17. Scifoni, S.; Coltelli, M.; Marsella, M.; Proietti, C.; Napoleoni, Q.; Vicari, A.; Del Negro, C., Mitigation of lava flow invasion hazard through optimized barrier configuration aided by numerical simulation: The case of the 2001 Etna eruption, JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH, 192, (1 - 2), 16, 26, 10.1016/j.jvolgeores.2010.02.002	2010	1.941	23	2,3	24
18. Proietti, C.; Coltelli, M.; Marsella, M.; Fujita, Eisuke, A quantitative approach for evaluating lava flow simulation reliability: LavaSIM code applied to the 2001 Etna eruption, GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, 10, 10.1029/2009GC002426	2009	2.626	14	1,27	18
19. Marsella, M.; Proietti, C.; Sonnessa, A.; Coltelli, M.; Tommasi, P.; Bernardo, E., The evolution of the Sciara del Fuoco subaerial slope during the 2007 Stromboli eruption: Relation between deformation processes and effusive activity, JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH, 182, (3 - 4), 201, 213, 10.1016/j.jvolgeores.2009.02.002	2009	1.921	36	3,27	41
20. Baldi, P.; Coltelli, M.; Fabris, M.; Marsella, M.; Tommasi, P., High precision photogrammetry for monitoring the evolution of the NW flank of Stromboli volcano during and after the 2002 - 2003 eruption, BULLETIN OF VOLCANOLOGY, 70, (6), 703, 715, 10.1007/s00445 - 007 - 0162 - 1	2008	2.735	30	2,5	29
21. Manunta, M.; Marsella, M.; Zeni, G.; Sciotti, M.; Atzori, S.; Lanari, R., Two - scale surface deformation analysis using the SBAS - DInSAR technique: a case study of the city of Rome, Italy, INTERNATIONAL JOURNAL OF REMOTE SENSING, 29, (6), 1665, 1684, 10.1080/01431160701395278	2008	1.041	31	2,58	34
22. Coltelli, M.; Proietti, C.; Branca, S.; Marsella, M.; Andronico, D.; Lodato, L., Analysis of the 2001 lava flow eruption of Mt. Etna from three - dimensional mapping, JOURNAL OF GEOPHYSICAL RESEARCH - EARTH SURFACE, 112, (F2), 10.1029/2006JF000598	2007	2.953 (2016)	57	4,38	60

23. Vicari, AM.; Alexis, H.; Del Negro, C.; Coltelli, M.; Marsella, M.; Proietti, C., Modeling of the 2001 lava flow at Etna volcano by a Cellular Automata approach, ENVIRONMENTAL MODELLING & SOFTWARE, 22, (10), 1465, 1471, 10.1016/j.envsoft.2006.10.005	2007	1.279	73	5,62	78
24. Baldi, P.; Fabris, M.o; Marsella, M.; Monticelli, R.; Achilli, V., Application of digital terrain model to volcanology, ANNALS OF GEOPHYSICS, 49, (4 - 5), 1059, 1066,	2006	0.441	6	0,43	5
25. Baldi, P; Fabris, M; Marsella, M; Monticelli, R, Monitoring the morphological evolution of the Sciara del Fuoco during the 2002 - 2003 Stromboli eruption using multi - temporal photogrammetry, 30th International Symposium on Remote Sensing of Environment, NOV, 2003, ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING, 59, (4), 199, 211, 10.1016/j.isprsjprs.2005.02.004	2005	1.674	47	3,13	49
26. Baldi, P; Bonvalot, S; Briole, P; Coltelli, M; Gwinner, K; Marsella, M; Puglisi, G; Remy, D, Validation and comparison of different techniques for the derivation of digital elevation models and volcanic monitoring (Vulcano Island, Italy), INTERNATIONAL JOURNAL OF REMOTE SENSING, 23, (22), 4783, 4800, 10.1080/01431160110115861	2002	1.154	32	1,78	35
27. Baldi, P; Bonvalot, S; Briole, P; Marsella, M, Digital photogrammetry and kinematic GPS applied to the monitoring of Vulcano Island, Aeolian Arc, Italy, GEOPHYSICAL JOURNAL INTERNATIONAL, 142, (3), 801, 811, 10.1046/j.1365 - 246x. 2000.00194.x	2000	1.544	36	1,8	40
<b>Total Impact Factor</b>		<b>55,326</b>			
28. Martino, M.; Marsella, M.; Scifoni, S.; Coltelli, M.; Proietti, C.; Chowdhurv, Tanvir Ahmed; Minet, C.; Giannone, F., Monitoring an active volcanic area and mapping lava flows with multisource data: the case of Mount Etna from 2011 to 2015, IEEE 16th International Conference on Environment and Electrical Engineering (EEEIC), JUN 07 - 10, 2016, 2016 IEEE 16TH INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING (EEEIC),	<b>2016</b>		<b>0</b>	<b>0</b>	<b>0</b>
29. Corsetti, M., Giancola, F., Manunta, M., Marsella, M., Sonnessa, A., Differential SAR Interferometry for surface monitoring of an Earth Dam,(2016) 1st IMEKO TC4 International Workshop on Metrology for Geotechnics, MetroGeotechnics 2016, pp. 295 - 300	2016				
30. D'Aranno, P.J.V., Gizzi, F., Marsella, M., Scifoni, S., Scutti, M., Sonnessa, A., Bonano, M., Manunta, M., Understanding the effects of tunneling on buildings by analyzing DInSAR data: The case of the new subway in Rome, Italy, (2016) 1st IMEKO TC4 International Workshop on Metrology for Geotechnics, MetroGeotechnics 2016, pp. 345 - 349	2016				1
31. Martino, M.; Scifoni, S.; Napoleoni, Q.; D'Aranno, P. J. V.; Marsella, M.; Coltelli, M., Integration of geotechnical modeling and remote sensing data to analyze the evolution of an active volcanic area: The case of the New South East Crater (Mount Etna), 4th International Workshop on Volcanic Rocks and Soils Lacco Ameno, SEP 24 - 25, 2016, Eds. Rotonda, T; Cecconi, M; Silvestri, F; Tommasi, P, VOLCANIC ROCKS AND SOILS,179, 180,	2015		0	0	0
32. Martino, M.; Scifoni, S.; Marsella, M.; D'Aranno, P. J. V.; Napoleoni, Q.; Coltelli, M., A multi - sensor approach for monitoring an active volcanic area: the 2011 - 2014 eruptive phase of Mount Etna, IEEE 15th International Conference on Environment and Electrical Engineering (EEEIC), JUN 10 - 13, 2015, 2015 IEEE 15TH INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING (IEEE EEEIC 2015),1516, 1521,	2015		1	0,2	2

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33. Marsella, M.; D'aranno, P. J. V.; Scutti, M.; Scifoni, S.; Sonnessa, A.; Gonzalez, E. J. L.; Bonano, M.; Manunta, M.; Pepe, A.; Ojha, Chandrakanta, Quantifying the effects of ground settlement on buildings by the exploitation of long term DInSAR time series: the case of Roma, IEEE 15th International Conference on Environment and Electrical Engineering (IEEEIC), JUN 10 - 13, 2015, 2015 IEEE 15TH INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING (IEEE IEEEIC 2015),2226, 2230,	2015	1	0,2	1
34. Marsella, M.; Bonano, M.; D'aranno, P. J. V.; Manunta, M.; Ojha, C.; Scifoni, S.; Scutti, M.; Sonnessa, A., MONITORING URBAN AREA BY MEANS OF LONG TERM DInSAR TIME SERIES, IEEE International Geoscience and Remote Sensing Symposium (IGARSS), JUL 26 - 31, 2015, 2015 IEEE INTERNATIONAL GEOSCIENCE AND REMOTE SENSING SYMPOSIUM (IGARSS),1183, 1186,	2015	0	0	0
35. D'Aranno, P. J. V.; Marsella, M.; Scifoni, S.; Scutti, M.; Sonnessa, A.; Bonano, M., Advanced DInSAR analysis for building damage assessment in large urban areas: an application to the city of Roma, Italy, Conference on SAR Image Analysis, Modeling, and Techniques XV, SEP 23 - 24, 2015, Eds. Notarnicola, C; Paloscia, S; Pierdicca, N, SAR IMAGE ANALYSIS, MODELING, AND TECHNIQUES XV, 9642,10.1117/12.2194808	2015	0	0	0
36. Scifoni, S.; Palenzuela Baena, J. A.; Marsella, M.; Pepe, Susi; Sansosti, E.o; Solaro, G.e; Tizzani, P., An integrated remote sensing approach for landslide susceptibility mapping at the volcanic islands of Vulcano and Lipari (Eolian Island, Italy), Conference on SAR Image Analysis, Modeling, and Techniques XV, SEP 23 - 24, 2015, Eds. Notarnicola, C; Paloscia, S; Pierdicca, N, SAR IMAGE ANALYSIS, MODELING, AND TECHNIQUES XV, 9642,10.1117/12.2195060	2015	0	0	0
37. Bonano, M.; Calo, F.; Manunta, M.; Marsella, M.; Scifoni, S.; Sonnessa, A.; Tagliaferro, V., Ground Settlement Assessment in Urban Areas Through SBAS - DInSAR Measurements: The Case Study of Roma (Italy), 12th International IAEG Congress, SEP 15 - 19, 2014, Eds. Lollino, G; Manconi, A; Guzzetti, F; Culshaw, M; Bobrowsky, P; Luino, F, ENGINEERING GEOLOGY FOR SOCIETY AND TERRITORY, VOL 5: URBAN GEOLOGY, SUSTAINABLE PLANNING AND LANDSCAPE EXPLOITATION,985, 988, 10.1007/978 - 3 - 319 - 09048 - 1_189	2015	0	0	1
38. Corsetti, M., Manunta, M., Marsella, M., Scifoni, S., Sonnessa, A., Ojha, C., Satellite techniques: New perspectives for the monitoring of dams,(2015) Engineering Geology for Society and Territory - Volume 5: Urban Geology, Sustainable Planning and Landscape Exploitation, pp. 989 - 993.	2015			2
39. Corsetti, M.; D'Aranno, P. J. V.; Marsella, M.; Scifoni, S.; Sonnessa, A., Application of laser scanning surveying to rock slopes risk assessment analysis, International - Society - for - Photogrammetry - and - Remote - Sensing Workshop on The Role of Geomatics for Hydrogeological Risk, FEB 27 - 28, 2013, Eds. Pirotti, F; Guarnieri, A; Vettore, A, ROLE OF GEOMATICS IN HYDROGEOLOGICAL RISK, 40 - 5 - W3,27, 32, 10.5194/isprsarchives - XL - 5 - W3 - 27 - 2013	2013	0	0	0
40. Delmonaco, G., Garbin, F., Marsella, M., Margottini, C., Sonnessa, A., Spizzichino, D., Laser scanning analysis and landslide risk assessment on transportation network: The Lugnano in Teverina (Umbria Region, Italy),, landslide case study ,(2013) Landslide Science and Practice: Risk Assessment, Management and Mitigation, 6, pp. 207 - 214.	2013			1
41. Margottini, C., Spizzichino, D., Orlando, L., Marsella, M., Renzi, B., Sonnessa, A., Pandolfi, O., Soddu, P. Geotechnical and geophysical characterization of Moai statues - Rapa Nui Easter Island (Chile) (2013) Geotechnical Engineering for the Preservation of Monuments and Historic Sites - Proc. of the 2nd Int. Symp. on Geotechnical Engineering for the Preservation of Monuments and Historic Sites, pp. 539 - 547.	2013			1



42. Marsella, M., Salino, A., Scifoni, S., Sonnessa, A., Tommasi, P. Stability conditions and evaluation of the runout of a potential landslide at the northern flank of la fossa active volcano, Italy (2013) Landslide Science and Practice: Spatial Analysis and Modelling, 3, pp. 309 - 314.	2013			
43. Ardizzone, F.; Bonano, M.; Giocoli, A.; Lanari, R.; Marsella, M.; Pepe, A.; Perrone, A.; Piscitelli, S.; Scifoni, S.; Scutti, M.; Solaro, G., Analysis of ground deformation using SBAS - DInSAR technique applied to COSMO - SkyMed images, the test case of Roma urban area, Conference on SAR Image Analysis, Modeling and Techniques XII, SEP 26 - 27, 2012, Eds. Notarnicola, C.; Paloscia, S; Pierdicca, N., , 8536,10.1117/12.979388	2012	4	0,5	7
44. Arangio, S., Di Mauro, M., Marsella, M., Sonnessa, A., Manunta, M., Assessment of structural damage due to ground settlements by using the DInSAR technique, (2012) Life - Cycle and Sustainability of Civil Infrastructure Systems - Proceedings of the 3rd International Symposium on Life - Cycle Civil Engineering, IALCCE 2012, pp. 1897 - 1904.	2012			1
45. Bonano, M., Manunta, M., Pepe, A., Marsella, M., Lanari, R. DInSAR deformation time series for monitoring urban areas: The impact of the second generation SAR systems (2012) International Geoscience and Remote Sensing Symposium (IGARSS), art. no. 6352311, pp. 5725 - 5728.	2012			
46. Bonano, M., Calò, F., Manunta, M., Marsella, M., The SBAS - DInSAR technique: A tool for deformation monitoring in the urban damage assessment, (2012) Life - Cycle and Sustainability of Civil Infrastructure Systems - Proceedings of the 3rd International Symposium on Life - Cycle Civil Engineering, IALCCE 2012, pp. 1927 - 1933.	2012			1
47. Crespi, M., Giannone, F., Marsella, M., Sonnessa, A., Automated geomatic system for monitoring historical buildings during tunneling in Roma, Italy, (2012) Life - Cycle and Sustainability of Civil Infrastructure Systems - Proceedings of the 3rd International Symposium on Life - Cycle Civil Engineering, IALCCE 2012, pp. 1110 - 1117.	2012			1
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50. Gwinner, K., Coltelli, M., Flohrer, J., Jaumann, R., Matz, K. - D., Marsella, M., Roatsch, T., Scholten, F., Trauthan, F. The HRSC - AX Mt. Etna project: High - resolution orthoimages and 1 M DEM at regional scale (2006) Revue Francaise de Photogrammetrie et de Teledetection, (183), pp. 61 - 66.	2006			6
51. Atzori, S., Coltelli, M., Marsella, M., Puglisi, G. ERS1/2 interferometry on Erta Ale volcano: The study of a proto - ocean ridge using SAR (2000) European Space Agency, (Special Publication) ESA SP, (478), pp. 15 - 20.	2000			
52. Refice, A., Guerriero, L., Bovenga, F., Wasowski, J., Veneziani, N., Atzori, S., Ferrari, A.R., Marsella, M. Detecting landslide activity by SAR interferometry (2000) European Space Agency, (Special Publication) ESA SP, (461), pp. 1176 - 1188.	2000			4
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*M. Marsella*

## Summary of Scientific Achievements

	Scopus (1997 - 2018)	Web of Science (2000 - 2018)	
Results found	53	38	
Sum of the Times Cited	609	548	
Average Citations per Item	11,5	14,42	
H - index	14	14	
Normalized H - index	0,67	0,74	0,52*
i10 - Index	15	15	
Total Impact Factor			55,33
Average Impact factor per publication			2,05

\*H index divided by the academic seniority (from 1992).

Product type	Sapienza Catalogue
Journal	46
Paper or Chapter in Books	17
Proceedings	20
Papers in Volume of proceedings	49
Abstracts	17

*Al. Nobile*

# Scopus Report

Scopus Preview

Author search Sources Help Maria A. Marsella

## Author details

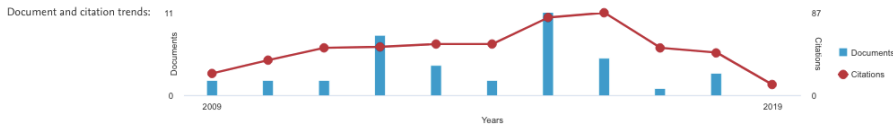
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### Marsella, Maria A.

Università degli Studi di Roma La Sapienza, Department of Civil Engineering,  
Rome, Italy  
Author ID: 36958360400  
Other name formats: (Marsella, M.) (Marsella, Maria)

Top SciVal Topic: synthetic aperture radar | Subsidence | persistent scatterers



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Documents by author

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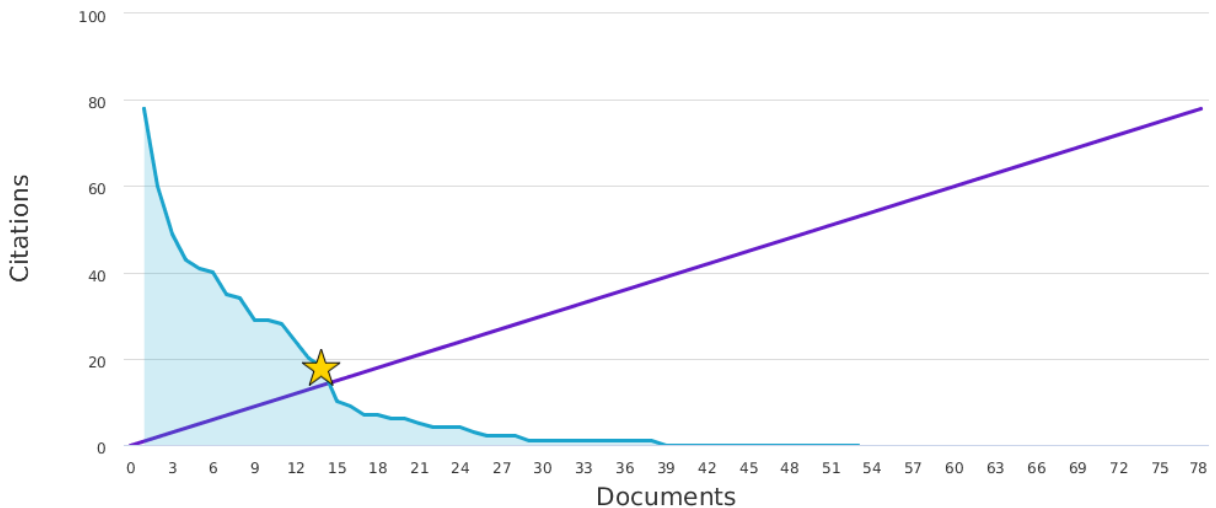
Total citations

607 by 429 documents

53 Documents Cited by 429 documents 102 co-authors Author history

The h-index is based upon the number of documents and number of citations.

Scopus



*M. Marsella*

# Web Of Science Report

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**Other Names:**  
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**URL:** http://www.researcherid.com/rid/F-9263-2015  
**Subject:** Enter a Subject  
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**Primary Institution:** Sapienza - University of Rome  
**Sub-org./Dept:**  
**Role:** Faculty  
**Joint Affiliation:**  
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**Role:**  
**Past Institutions:**

**Description:** Enter a Description  
**My URLs:**

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**My Publications (1)**  
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**My Publications: Citation Metrics**

This graph shows the number of times the articles on the publication list have been cited in each of the last 20 years.  
 Note: Only articles from Web of Science Core Collection with citation data are included in the calculations. More information about these data.

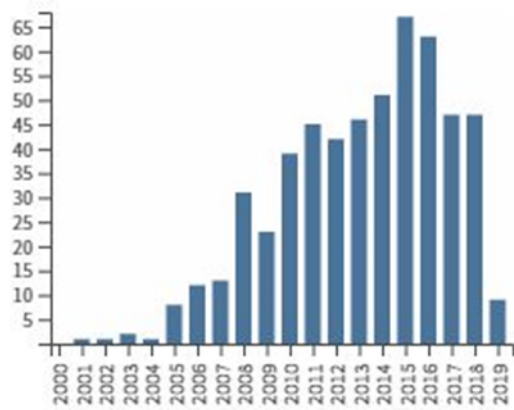
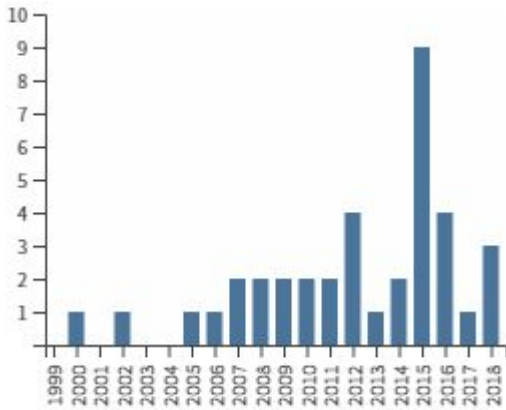
**Citation Distribution by year**

Year	Citations
1999	0
2000	0
2001	0
2002	0
2003	0
2004	0
2005	1
2006	1
2007	2
2008	2
2009	2
2010	2
2011	2
2012	4
2013	1
2014	2
2015	9
2016	4
2017	1
2018	3

**Total Articles in Publication List: 1**  
**Articles With Citation Data: 33**  
**Sum of the Times Cited: 577**  
**Average Citations per Article: 17.48**  
**h-index: 14**  
 Last Updated: 02/09/2019 18:55 GMT

Total Publications by Year

Sum of Times Cited by Year



*M. Marsella*

## List of relevant projects

Year	Title	Program	Budget	Role
2019	Caratterizzazione delle discariche dismesse in Sicilia mediante dati telerilevati e geologici - Convenzione Operativa Attuativa	Dipartimento Acque e dei Rifiuti Regione Sicilia	234 (in appr.)	PI
2018	OT4CLIMA - Tecnologie OT innovative per lo studio degli impatti del Cambiamento climatico sull'ambiente	MIUR - PON R&I 2014 - 2020) - Area specializzazione Aerospazio	72	Co - PI
2018	E - WAS - An early - warning System for Cultural Heritage	MIUR - PO - FESR SICILIA 2014/2020	75	I
2018	Studio dell'evoluzione morfologica e ottimizzazione delle modalità di gestione delle aree costiere - Direzione Generale per la Salvaguardia del Territorio e delle Acque.	MATM - Ministero dell'Ambiente e della Tutela del Territorio e del Mare	23,5	Co - PI
2018	SEMIA - Sistema Esperto per la Mitigazione dei rischi in Agricoltura	Lazio innova - Progetti Gruppi di Ricerca	149	PI
2018	Use Case Definition for time series application of SAR data	MEEO srl	35	PI
2018	Studio di fattibilità per integrazione dati radar multi - risoluzione	IPTSAT srl	23	PI
2017	Sistema di monitoraggio integrato in - situ e satellitare per il bacino di Campotosto (AQ)	MIT - Ministero delle Infrastrutture e Trasporti - Direzione Generale per Dighe e Infrastrutture Idriche ed Elettriche	195	PI
2017	MUSA - Monitoring built - Up area from Satellite -	European Commission - Coordination and Support Action - Call H2020 - INNOSUP - 2016 - 2017 - SME Innovation Associate	72,5	PI
2017	Studio di fattibilità per l'attività di monitoraggio superficiale di tratte stradalali con la tecnica satellitare DInSAR	Anas - spa	39,5	PI
2016	I.MODI - Implemented Service I.MODI - Implemented Monitoring system for structural Displacement	Accordo quadro DPC - INGV H2020 SME Instrument Phase II - Topic SPACE	553	PI
2015	Hydrographic Surveying of the Mugnone River inside the town of Firenze	West System srl	18	PI
2015	EO data for protecting civil infrastructure	Mount Etna cable car company	30	PI
2015	OPPIUS - Operative Process and Integrated methodology to quantify and evaluate the criticisms of the infrastructural System of the Colle Oppio area (Roma,Italy)	Fondi di ricerca di ateneo - Sapienza	30	PI
2014	SAPERE - SAFE - Services for risk and emergency management (Crisis Management Scenarios) - Algorithms and Products based on heterogeneous satellite data	MIUR - Cluster tecnologico aerospaziale	80	I
2014	Volcanology Project - V_3 Task 4: Hazards linked to phenomena of gravitational instability of the slope in Vulcano and Lipari	National Department of Civil Protection (DPC) - INGV	35	Co - PI
2014	Geodetic Reference System for the Advanced VIRGO research infrastructure	EGO - European Gravitational Observatory	20	PI
2013	Testing of innovative systems for monitoring large dams Analysis and testing of innovative system for dam monitoring	MIT - Ministero delle Infrastrutture e Trasporti - Direzione Generale per Dighe e Infrastrutture Idriche ed Elettriche	37	PI

*Al. 11/02/19*

2013	MODI - Monitoring large urban area by means of long term DInSAR time series - Progetto per lo sviluppo di applicazioni con dati satellitari	BicLazio - ESA - ASI	50	PI
2013	MED - SUV - MEDiterranean SUPersite Volcanoes	EU - FP7	180	Co - PI
2013	DINSAR time series to understand the ground settlements affecting urban areas (the case of Roma)	Fondi di ricerca di ateneo - Sapienza	12	PI
2013	EdiModi - Sviluppo di tecniche di monitoraggio satellitari in aree urbane	Bando Promotori Tecnologici III edizione - FERS Lazio 2014 - 2020	23	PI
2012	Valutazione della pericolosità per fenomeni di instabilità gravitativa di versante (Vulcano e Lipari)	Accordo quadro DPC - INGV	45	Co - PI
2012	Controlli geodetici	EGO - European Gravitational Observatory	10	PI
2011	<b>WHERE</b> - Sviluppo e dimostrazione di un servizio operativo basato su immagini satellitari per il monitoraggio di siti UNESCO e siti d'interesse archeologico in aree urbane	ASI - Agenzia Spaziale Italiana Bando ASI - PMI - Nextant spa	31	Co - PI
2011	Attività di rilievo tratti spondali e arginali del fiume Tevere per la Regione Lazio Regione Lazio -	Commissario delegato per emergenza 2008	467	PI
2010	Sviluppo di procedure di rilievo e di elaborazione dati laser scanning per la valutazione del rischio d'instabilità di pendii e fronti di scavo	Fondi di ricerca di ateneo - Sapienza	14	PI
2010	WAteR pipeliNe monitorING Station	Fondi di ricerca FARI - Sapienza	8	PI
2010	Rilievo GNNS per censimento delle caditoie stradali del Comune di Roma	Sysdeco Srl	180	PI
2009	Surveying activity - St Paul Bastions, Mdina (MALTA)	Joint Venture Mdina 2009	15	PI
2008	Integrazione di tecniche di telerilevamento satellitari e terrestri per il controllo di fenomeni franosi	Fondi di ricerca di ateneo - Sapienza	8	PI
2007	Rilievo e analisi multi - temporale in un Sistema di Informazioni Geo - spaziali per il monitoraggio dei movimenti e delle deformazioni di aree soggette a rischio territoriale	MIUR - PRIN 2007	56,2	I
2009	On the exploitation and validation of COSMO - SkyMed interferometric SAR data for digital terrain modelling and surface deformation analysis in extensive urban areas	ASI - Agenzia Spaziale Italiana Bando - AO COSMO - SkyMed	45	Co - PI
2007	Emergenza Stromboli 2007 - Rilievi aerei fotogrammetria/laser scanning per il controllo dell'eruzione	Dipartimento Protezione Civile Nazionale	149	PI
2007	Mt Etna lava flow invasion hazard mapping and dynamic upgrade - Progetto V3	Accordo quadro DPC - INGV	30	Co - PI
2006	Collaudo cartografia regionale	Laziomatica spa	115	PI
2006	Messa a punto di una procedura dedicata all'utilizzo di Laser Scanner per il controllo di dissesti idrogeologici - -	Tecno In Spa	30	PI
2005	Elaborazione dati laser scanner da aereo	Nuova avioriprese srl	18	PI
2005	Monitoraggio cava di Torgiovanetto -	Scuola Alta Specializzazione Manutenzione e Conservazione Centri Storici in Territori Instabili (Perugia) "	34	PI
2004	Analisi dei cambiamenti dell'uso del suolo nell'area urbana e periferica di Roma attraverso prodotti	Fondi di ricerca di Ateneo - Sapienza	19	PI

*Al. 11/02/20*

	cartografici estratti da immagini satellitari ad alta risoluzione			
2004	Numerical modeling of lava flow evolution and associated hazard - Progetto V3_6	Accordo quadro DPC - INGV	26	Co - PI
2004	Ricostruzione di elementi strutturali a seguito del crollo dell'edificio scolastico "F.Jovine" S.Giuliano di Puglia (Isernia)	Tribunale di Larino (CB)	30	PI
2004	Realizzazione del progetto azione B5 "Intesa Stato - Regioni - Enti Locali sul sistema cartografico di riferimento" in coerenza con il piano di E - Government -	Laziomatica spa	264	PI
2003	Emergenza Stromboli 2002 - 2003 - Controllo fotogrammetrico/topografico del versante in frana	DPC - Dipartimento Protezione Civile Nazionale	124	PI
2002	Censimento di specie nel parco dell'eur tramite un gps mapping	SERCO srl	30	PI
2002	Applicazione delle tecniche di monitoraggio satellitari allo studio delle deformazioni di versante - Val di Susa	Dip. Ingegneria Strutturale e Geotecnica - Sapienza	15	PI
2001	Cartografia di riferimento e reti di controllo per il monitoraggio dell'erosione costiera	Regione Lazio Assessorato opere e reti di servizi e mobilità	30	I
2000	Sviluppo di un veicolo per la manutenzione di tratte stradali equipaggiato con GNSS/INS, camere digitali e sistema di scansione laser.	MIUR - PRIN	21	Co - PI
2000	Tecniche di telerilevamento per il monitoraggio dei vulcani attivi in Italia - A) Fenomeni di instabilità dei fianchi di edifici vulcanici insulari B) Digital Terrain and Marine Model	Gruppo Nazionale di vulcanologia GNV	38	Co - PI

MARIA ANTONIETTA MARSELLA



ROMA 10 FEBBRAIO 2019

