

# Europass Curriculum Vitae



## Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

Gender

**Nascetti, Andrea**

Sveavägen 164C, 11346, Stockholm, Sweden

+39 3277395995

nascetti@kth.se

Italian

21/11/1980

Male

## Occupations and Positions held

01-06-2017 - Now

Research Scientist at KTH (Royal Institute of Technology), Geoinformatics Division, Department of Urban Planning and Environment, Stockholm, Sweden

22-01-2016 - Now

Chair of the European Association of Remote Sensing Laboratories (EARSeL) Radar Remote Sensing SIG (Special Interest Group)

04-12-2014 - Now

Co-Founder and CEO at Kuaternion (Start-up of the University of Rome "La Sapienza", Italy)

01-06-2013 - 31-05-2017

Post-doctoral researcher at the Geomatics Division of the University of Rome "La Sapienza", Italy

## Research Topics

Earth Observation &  
Remote Sensing

Models and algorithms for processing optical and radar high resolution satellite imagery using different techniques (i.e. Photogrammetry, Radargrammetry and Interferometry). Development and implementation of feature extraction, off-set tracking and matching algorithms; stereoscopic digital surface models generation. Coregistration of optical and SAR satellite imagery using SIFT based approach. Time series analysis and big data cubes exploitation using cloud-based technology (i.e. Google Earth Engine, Google Cloud Platform).

Computer Vision &  
Machine Learning

Close range 3D modelling using several sensors and techniques. Validation and calibration analysis of low-cost range camera (e.g. Microsoft Kinect v1 and v2, Occipital Structure Sensor). Multi-view photogrammetry based on Structure from Motion (SfM) algorithms. Development of segmentation techniques for point clouds analysis. Image classification using both supervised and unsupervised machine learning methods (i.e. Random Forest, SVM, K-Means, Neural networks, Bayesian approaches).

GIS &  
Geospatial data

Digital Surface Models (DSMs) and Orthoimages comparison, cross-validation and quality assessment. Statistical analysis. Land use and land cover mapping and spatial statistical analysis. Geo Big Data analysis, management and development.

## Academic Qualification

27-01-2015

National Scientific Qualification for Associate Professor<sup>1</sup> in Geodesy and Geomatics

## Education

11-04-2013

Doctor of Philosophy (Ph.D.) Summa Cum Laude, University of Rome "La Sapienza"

Title

*High resolution radargrammetry: development and implementation of an innovative image matching strategy*

Principal Subjects/occupational skills covered

Geodesy, Remote Sensing, Surveying, Geomatics, Photogrammetry, SAR processing, GNSS data analysis

From 03-2012 to 09-2012

Advanced Training Course RED (Research Enhancement and Development) at the University of Rome "La Sapienza"

Principal Subjects/occupational skills covered

Innovation management and entrepreneurship; Intellectual property; Management; Business modelling; Business planning; Fundraising and financing

27-10-2009

Master Degree in Environmental Engineering, University of Rome "La Sapienza"

Thesis Title

*A stereo image matching strategy based on corner detection and least squares refinement: algorithm implementation in IDL development environment and testing over high resolution satellite imagery*

Principal Subjects/occupational skills covered

Hydraulics, Hydrology, Risk Analysis, Geology, Geotechnic, Geophysics, Construction Engineering, Math, Physics

## R&D Projects

From 01-08-2016 to now

KTH Coordinator for capacity building at Makerere University, Uganda - SIDA (Swedish cooperation agency) project *Upgrading and Strengthening the University Wide GIS centre*

From 01-06-2016 to now

Participation to the EO4Urban project funded by the ESA (European Space Agency) Project Link: [http://due.esrin.esa.int/page\\_project149.php](http://due.esrin.esa.int/page_project149.php)

From 09-2015 to now

Participation to the GlacioVar project funded by the Italian DARAS (Dipartimento per gli affari regionali, le autonomie e lo sport della Presidenza del Consiglio dei Ministri) devoted to use satellite and GNSS data for glacier monitoring

Dal 08-2016 - 08-2017

Principal Investigator for the project "L.I.V.E. Glacier" funded by the ESA EOEI (Earth Observation Entrepreneurship Initiative) grant e finalist at the Copernicus Master competition

From 09-2014 to 01-2016

Principal Investigator for an Italian POR-FERS project funded by the EU for the financing of a newly established spin-off of the University of Rome "La Sapienza"

From 09-2013 to 09-2015

Image Analyst for Research and Development project *SIGE - Satellite Image Geometric Enhancement* in collaboration with Exelis Visual Information Solution and ENI spa

<sup>1</sup>National Scientific Qualification (art.16 of the law 30 December 2010, n.240) This regulation defines a new procedure for the recruitment of University Professors, based on scientific qualification criteria. A national commission evaluates and assesses the candidates scientific qualifications.

From 04-2010 to 04-2012 Participation to the ASI (Italian Space Agency) COSMO-SkyMed AO Project. *Exploitation and Validation of COSMO-SkyMed Interferometric SAR data for Digital Terrain Modelling and Surface Deformation Analysis in Extensive Urban Areas* (PI: Riccardo Lanari, CNR-IREA, Italy)

From 11-2011 to 12-2011 Guest scientist at sarmap sa Cascine di Barrico, Switzerland for a comparison between InSAR and StereoSAR DSM extraction using high resolution SAR imagery

From 08-2009 to 08-2012 Participation to the ISPRS Project: *Evaluation of DEM derived from TerraSAR-X data* (PI: Uwe Soergel, ISPRS TWG VII-2 Chair, Leibniz University Hannover, Germany)

### **Academic Teaching experience**

From 06-2017 to now Lecturer and course responsible for the courses of Remote Sensing Technology and Digital Image Processing, M.Sc. in Aerospace Eng. and Transportation and Geoinformatics Technology, KTH - Royal Institute of Technology, Stockholm, Sweden

From 09-2015 to 11-2016 Lecturer and course responsible for the course of Geomatics, M.Sc. in Sciences for tourism and cultural heritage, University of Molise, Campobasso, Italy

From 09-2013 to 05-2017 Adjunct Professor for the course of Numerical Analysis, B.Sc. in Environmental Engineering, University of Rome "La Sapienza"

From 11-2009 to 11-2015 Teaching assistant for the course of Geomatics, B.Sc. and M.Sc. in Environmental Engineering, University of Rome "La Sapienza"

### **Supervising and mentoring activities**

From 2017 to now Co-Supervisor of three PhD students at the KTH Geoinformatics division

From 2017 to now Supervisor of four Master Students at the KTH Geoinformatics division

From 2013 to now Co-Supervisor of four PhD students in Geomatics at the University of Rome "La Sapienza"

From 2010 to now Co-Supervisor of around twenty Bachelor and Master Degree Thesis in Geomatics, within the Environmental Engineering Courses (B.Sc. and M.Sc.), University of Rome "La Sapienza"

### **Teaching in International Courses and Summer Schools**

1-5 October 2018 Responsible and co-organizer of the course: *Intense Course of Web & Mobile GIS*, Makerere University, Kampala, Uganda

2-7 July 2018 Invited Lecturer for the *Geoinformatics Summer School 2018 Liesmars, Wuhan University 2-7* Course title: *DSMs generation from optical and SAR satellite imagery: an original unified approach*

20-25 November 2017 Invited Lecturer for the *Dragon 4 Programme Advanced Training Course in Land Remote Sensing* YNNU, Kunming, P.R. China

14-18 December 2015 Invited Lecturer for the course *Optical and SAR satellite imagery and digital terrain modeling* Universidad Nacional del Sur, Bahia Blanca, Argentina

## Research expeditions

- 10-20 March 2017 Responsible for the 3D Modelling using close range photogrammetry of the archeological site of Jericho, Palestinian Territories (PI: Prof. Nigro University of Rome "La Sapienza")
- 17-24 September 2016 Responsible for the 3D Modelling using close range photogrammetry and GNSS survey of the archeological site of Mozia, Sicily Italy (PI: Prof. Nigro University of Rome "La Sapienza")
- 12-29 March 2016 Member of the expedition to the Exploradores Glacier – Laguna San Rafael (Chile) for the collection of reference data (PI: Prof. Mattia Crespi)

## Organization of International conferences

- 24-26 September 2018 Member of the scientific committee and chair of the SAR session of the 5th EARSeL Joint Workshop "Urban Remote Sensing: Challenges and Solutions" at the Department of Geography Ruhr University Bochum
- 18-22 June 2018 Member of the local organizing committee of the IX Hotine-Marussi Symposium, hosted at the Faculty of Civil and Industrial Engineering of the University of Rome "La Sapienza", Italy
- 18-22 June 2014 Member of the local organizing committee of the VIII Hotine-Marussi Symposium, hosted at the Faculty of Civil and Industrial Engineering of the University of Rome "La Sapienza", Italy

## Editorial and referee activities

- 2018 Assistant Editor of the special issue or the Special Issue of the European Journal of Remote Sensing with the title "Urban Remote Sensing - Challenges and Solutions".
- From 2011 to now Reviewer of several international journals (i.e. Remote Sensing, Sensors, ISPRS Journal of Photogrammetry and Remote Sensing, European Journal of Remote Sensing, International Journal of Remote Sensing, Applied Geomatics).

## Prizes and Awards

- 2018 Google GCP Edu Grant - Google Grant to support educational activities based on the Google Cloud Processing infrastructure for the two courses: Remote Sensing Technology and Digital Image Processing at the Royal Institute of Technology (KTH)
- 2017 Selected speaker for the Lighting Talks session at the Google Earth Engine User Summit 2017, title: *Copernicus Big Data and Earth Engine: Key Tools for Glaciers Health Monitoring*, Mountain View, CA (link: <https://www.youtube.com/watch?v=i-lpnJuTSLA>)
- 2016 Winner of WIRE16 for the Best Idea with the L.I.V.E. Glacier project (Ice CREAM Team)
- 2016 Galactic Impact Award Winner and Rome edition winner at NASA SPACE APPS CHALLENGE 2016 with the L.I.V.E. Glacier Project (Ice CREAM Team): development of a web tool providing near real-time glacier surface velocity fields and an App supporting scientists for the integration and validation of satellite data by acquiring crowd-sourced images

- 2014 University of Rome "La Sapienza" Grant for young researchers. Project title: Ramses 3D (3D RApid Models for Heritage Scanning)
- 2013 Winner of the AUTEc (Association of Italian Geomatics Professors) prize for the best doctoral dissertation in Geomatics in the academic year 2013
- 2012 Selected as software developer for OSGeo (*Open Source Geospatial Foundation*) within the international program *Google Summer of Code 2012*. Title: *Opticks - Basic SAR Processing Tools: Geocoding and stereo measurement* Wiki-Page Project Link
- 2011 Winner of the European selection Atomium Culture 2011. Article *Observing the Earth from the Stars: An innovative application to model the Earth surface using the New High Resolution Satellite SAR Imagery* was one of selected items by the Scientific Committee for publication in several European newspapers
- 2010 Second prize for Ph.D. research awarded by the Italian Cartography Association during the ASITA Conference 2010

**Personal skills and competences**

Mother tongue(s)  
Other languages

*Self-assessment  
European level<sup>(\*)</sup>*

**English**

**Spanish**

Informatics Skills

**Italian**  
English

Understanding		Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production	
C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user
B1	Independent user	B1	Independent user	A2	Basic user	A1	Basic user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

**Operating systems:** Windows, Macintosh, UNIX/Linux.

**Programming languages:** C/C++ (library: CUDA; BOOST; QT5; Xerces; OpenCV), Python, Matlab, LATEX, IDL-ENVI Programming

**IDE, SCM and compiler** Visual Studio 2010, GNU - GCC, Git, Cmake

**Markup languages:** HTML5, PHP, javascript, Joomla

**Commercial Softwares:** PCI-Geomatica, ERDAS-LPS, ENVI-IDL, SARSCAPE, Agisoft Photoscan, E-Cognition

**Open Source Software:** GMTSAR, Doris, NEST, Sentinel Toolbox (SNAP), Opticks, Quantum GIS, Ossidim, MicMac, Orfeo Tool Box (OTB), GDAL, OSGeo Framework

**Cloud Computing:** Google Cloud Platform (i.e Compute Engine, Storage, App Engine, DataLab), Google Earth Engine (javascript and python API), Basic knowledge of AWS

**Certifications:** GPU programming in CUDA (CASPUR, Rome, February 2011)

C++ scientific programming technique (CASPUR, Rome, November 2011)

Python for computational science (CINECA, Rome, December 2013)

Il sottoscritto è consapevole che:

- è soggetto alle sanzioni previste dal codice penale e dalle leggi speciali in materia qualora rilasci dichiarazioni mendaci, formi o faccia uso di atti falsi od esibisca atti contenenti dati non più rispondenti a verità (art. 76 D.P.R. 28.12.2000, n. 445);
- decade dai benefici eventualmente conseguenti al provvedimento emanato sulla base della dichiarazione non veritiera qualora dal controllo effettuato dall'Amministrazione emerga la non veridicità del contenuto della dichiarazione (artt. 71 e 75 D.P.R. 28.12.2000, n. 445).

Stoccolma, January 15, 2019

Firma

## Patents

- 1 A. Nascetti, P. Capaldo, F. Fratarcangeli, F. Pieralice, M. Crespi (2013). Patent for Matching strategy for optical and SAR high resolution satellite imagery (Matching procedure and device for the digital modelling of objects by stereoscopic images)
- 2 A. Nascetti, P. Capaldo, F. Fratarcangeli, F. Pieralice, M. Crespi (2013). *Procedura e dispositivo di matching per la modellizzazione digitale di oggetti mediante immagini stereoscopiche*. RM2013A000115

## Journal Articles

- 1 Ravanelli, R., Nascetti, A., Cirigliano, R.V., Di Rico, C., Leuzzi, G., Monti, P., Crespi, M. (2018) *Monitoring the impact of land cover change on surface urban heat island through Google Earth Engine: Proposal of a global methodology, first applications and problems* Remote Sensing, 10 (9), art. no. 1488.
- 2 Panza, G.F., Peresan, A., Sansò, F., Crespi, M., Mazzoni, A., Nascetti, A. (2018) *How geodesy can contribute to the understanding and prediction of earthquakes* Rendiconti Lincei, 29, pp. 81-93.
- 3 Di Rita, M., Nascetti, A., Crespi, M. (2018) *FOSS4G DATE for DSMs generation from tri-stereo optical satellite images: development and first results* European Journal of Remote Sensing, 51 (1), pp. 472-485.
- 4 Ravanelli, R., Lastilla, L., Nascetti, A., Di Rita, M., Nigro, L., Montanari, D., Spagnoli, F., Crespi, M. (2018) *3D modelling of archaeological small finds by the structure sensor range camera: comparison of different scanning applications* Applied Geomatics, 10 (4), pp. 399-413.
- 5 R. Ravanelli, M. Di Rita, V. Belloni, A. Nascetti, A. Mazzoni, and M. Crespi (2017) *New trends in geomatics, in the era of lowcost sensors, free and open source software and hpc geobigdata infrastructures*, GEOmedia, 21(3).
- 6 Dubois, C., Nascetti, A., Thiele, A., Crespi, M., Hinz, S. (2017) *SAR-SIFT for matching multiple SAR images and radargrammetry* PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 85 (3), pp. 149-158.
- 7 Di Rita, M., Nascetti, A., Crespi, M. (2017) *Open source tool for DSMs generation from high resolution optical satellite imagery: development and testing of an OSSIM plug-in* International Journal of Remote Sensing, 38 (7), pp. 1788-1808. DOI: 10.1080/01431161.2017.1288305
- 8 Ravanelli, R., Di Rita, M., Nascetti, A., Crespi, M., Nigro, L., Montanari, D., Spagnoli, F. (2017) *Penguin 3.0 - Capturing small finds in 3D Mediterranean Archaeology and Archaeometry*, 17 (2), pp. 49-56. Cited 2 times.
- 9 Nascetti, A., Colosimo, G. (2016) *An open source Opticks plug-in for high resolution SAR imagery orthorectification and stereo measurements* International Journal of Remote Sensing, 37 (15), pp. 3532-3546. DOI: 10.1080/01431161.2016.1190478
- 10 Fratarcangeli, F., Murchio, G., Di Rita, M., Nascetti, A., Capaldo, P. (2016) *Digital surface models from ZiYuan-3 triplet: performance evaluation and accuracy assessment*, International Journal of Remote Sensing, 37 (15), pp. 3505-3531. DOI: 10.1080/01431161.2016.1192308
- 11 E. Benedetti, R. Ravanelli, M. Moroni, A. Nascetti, and M. Crespi (2016). *Exploiting Performance of Different Low-Cost Sensors for Small Amplitude Oscillatory Motion Monitoring: Preliminary Comparisons in View of Possible Integration*. Journal of Sensors, 2016:10, 2016. doi:10.1155/2016/7490870
- 12 A. Nascetti, P. Capaldo, M. Porfiri, F. Pieralice, F. Fratarcangeli, L. Benenati, M. Crespi (2014). *Fast terrain modelling for hydrogeological risk mapping and emergency management: the contribution of high-resolution satellite SAR imagery* Geomatics, Natural Hazards and Risk, doi = 10.1080/19475705.2014.904824.
- 13 P. Capaldo, A. Nascetti, M. Porfiri, F. Pieralice, F. Fratarcangeli, M. Crespi, T. Toutin (2014). *Evaluation and comparison of different radargrammetric approaches for Digital Surface Models generation from COSMO-SkyMed, TerraSAR-X, RADARSAT-2 imagery: Analysis of Beauport (Canada) test site* (2014) ISPRS Journal of Photogrammetry and Remote Sensing, .
- 14 Nascetti A., Capaldo P., Pieralice F., Porfiri M., Fratarcangeli F., Crespi M. (2015) *Radargrammetric Digital Surface Models Generation from High Resolution Satellite SAR Imagery: Methodology and Case Studies*. In: Sneeuw N., Novák P., Crespi M., Sansò F. (eds) VIII Hotine-Marussi Symposium on Mathematical Geodesy. International Association of Geodesy Symposia, vol 142. Springer, Cham
- 15 P. Capaldo, F. Fratarcangeli, A. Nascetti, F. Pieralice, M. Porfiri, M. Crespi (2014). *High Resolution Radargrammetry – 3D Terrain Modeling*, Land Applications of Radar Remote Sensing, Dr. Damien Closson (Ed.), ISBN: 978-953-51-1589-2, In-Tech, DOI: 10.5772/57483. Available from: <http://www.intechopen.com/books/land-applications-of-radar-remote-sensing/high-resolution-radargrammetry-3d-terrain-modeling>
- 16 A. Nascetti (2013). *High resolution radargrammetry: development and implementation of an innovative image matching strategy*, Ricerche di Geomatica 2013, vol. 1, p. 47-56, ISBN: 9788890591730
- 17 P. Capaldo, M. Crespi, F. Fratarcangeli, A. Nascetti, F. Pieralice (2012). *DSM generation from high resolution imagery: applications with WorldView-1 and GeoEye-1*. Italian Journal of Remote Sensing, vol. 44, p. 41-53, ISSN: 1129-8596, doi:10.5721/ItJRS20124414
- 18 P. Capaldo, M. Crespi, F. Fratarcangeli, A. Nascetti, F. Pieralice (2013). *Radargrammetric Generation of DEMs from High Resolution Satellite SAR Imagery: A New tool for Landslide Hazard and Vulnerability Assessment*. Landslide Science and Practice: Landslide Inventory and Susceptibility and Hazard Zoning, 1, pp. 417-424. ISBN 978-3-642-31325-7
- 19 P. Capaldo, M. Crespi, F. Fratarcangeli, A. Nascetti, F. Pieralice (2012). *A radargrammetric orientation model and a RPCs generation tool for COSMO-SkyMed and TerraSAR-X High Resolution SAR*. Italian Journal of Remote Sensing, vol. 44, p. 55-67, ISSN: 1129-8596

- 20 P. Capaldo, M. Crespi, F. Fratarcangeli, A. Nascetti, F. Perialice (2011). *High-Resolution SAR Radargrammetry: A First Application With COSMO-SkyMed SpotLight Imagery*. IEEE Geoscience and Remote Sensing Letters (GRSL), vol. PP , Issue:99 , p. 1-5, ISSN: 1545-598X, doi: 10.1109/LGRS.2011.2157803
- 21 P. Capaldo, M. Crespi, F. Fratarcangeli, A. Nascetti, F. Perialice (2011). *High resolution SAR radargrammetry. application with COSMO-SkyMed spotlight imagery*. In: SIFET - Società Italiana di Fotogrammetria e Topografia, Geomatica Le Radici del Futuro. SIFET - Società Italiana di Fotogrammetria e Topografia, ISBN: 9788890193965
- 22 Nascetti A (2011). *DSM generation from high resolution satellite imagery: development and implementation of a new matching strategy*. Bollettino dell'Associazione Italiana di Cartografia (AIC), vol. 241-242, ISSN: 0044-9733

## Peer-review Conference Papers

- 22 Kakooe M., Nascetti A. , Ban Y. (2018) *Sentinel-L Global Coverage Foreshortening Mask Extraction: an Open Source Implementation Based on Google Earth Engine*. International Geoscience and Remote Sensing Symposium (IGARSS) 2018: 6836-6839
- 23 Belloni, V., Ravanelli, R., Nascetti, A., Di Rita, M., Mattei, D., Crespi, M. (2018) *Digital image correlation from commercial to FOS software: A mature technique for full-field displacement measurements* International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (2), pp. 91-95.
- 24 Di Tullio, M., Nocchi, F., Camplani, A., Emanuelli, N., Nascetti, A., Crespi, M. (2018) *Copernicus big data and google earth engine for glacier surface velocity field monitoring: Feasibility demonstration on san rafael and san quintin glaciers* International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (3), pp. 289-294.
- 25 Ravanelli, R., Nascetti, A., Cirigliano, R.V., Di Rico, C., Monti, P., Crespi, M. (2018) *Monitoring urban heat island through google earth engine: Potentialities and difficulties in different cities of the United States* International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (3), pp. 1467-1472.
- 26 Nascetti, A., Di Rita, M., Ravanelli, R., Amicuzi, M., Esposito, S., Crespi, M. (2017) *Free global DSM assessment on large scale areas exploiting the potentialities of the innovative google earth engine platform* International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (1W1), pp. 627-633.
- 27 Ravanelli, R., Nascetti, A., Di Rita, M., Belloni, V., Mattei, D., Nisticó, N., Crespi, M. (2017) *A new digital image correlation software for displacements field measurement in structural applications* International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (4W2), pp. 139-145.
- 28 Di Rita, M., Nascetti, A., Crespi, M. (2017) *FOSS4G date assessment on the isprs optical stereo satellite data: A benchmark for DSM generation* International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (1W1), pp. 635-638.
- 29 Ravanelli, R., Nascetti, A., Di Rita, M., Nigro, L., Montanari, D., Spagnoli, F., Crespi, M. (2017) *3d modelling of archaeological small finds by a low-cost range camera: Methodology and first results* International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 42 (5W1), pp. 589-592.
- 30 M. Di Rita, A. Nascetti, F. Fratarcangeli, M. Crespi (2016) *DATE: a new free and open source radargrammetric software for DSM generation using high resolution SAR imagery*. TerraSAR-X and TanDEM-X Science Team Meeting 2016 17-20 October 2016, DLR – Oberpfaffenhofen
- 31 A. Nascetti, F. Nocchi, A. Camplani, C. Di Rico, M. Crespi (2016). *Exploiting Sentinel-1 amplitude data for glacier surface velocity field measurements: Feasibility demonstration on baltoro glacier*. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 41, pp. 783-788.
- 32 F. Fratarcangeli, A. Nascetti, P. Capaldo, A. Mazzoni, M. Crespi (2016). *Centimeter COSMO-SkyMed range measurements for monitoring ground displacements* . International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 41, pp. 815-820.
- 33 M. Di Rita, A. Nascetti, F. Fratarcangeli, M. Crespi (2016). *Upgrade of foss date plug-in: Implementation of a new radargrammetric DSM generation capability*. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 41, pp. 821-825.
- 34 R. Ravanelli, A. Nascetti, and M. Crespi (2016). *KINECT V2 AND RGB STEREO CAMERAS INTEGRATION FOR DEPTH MAP ENHANCEMENT*. ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, XLI-B5:699–702, 2016. doi:10.5194/isprsarchives-XLI-B5-699-2016.
- 35 Nascetti, A., Capaldo, P., Perialice, F., Porfiri, M., Fratarcangeli, F., Crespi, M (2016). *Radargrammetric digital surface models generation from high resolution satellite SAR imagery: Methodology and case studies*, International Association of Geodesy Symposia, 142, pp. 233-239. DOI: 10.1007/1345.2015.141
- 36 Vassileva, M., Nascetti, A., Giuliotonolo, F., Boccardo, P (2015). *Unsupervised flood extent detection from SAR imagery applying shadow filtering from SAR simulated image*, International Geoscience and Remote Sensing Symposium (IGARSS), 2015-November, art. no. 7326372, pp. 2707-2710. DOI: 10.1109/IGARSS.2015.7326372
- 37 Nascetti, A., Capaldo, P., Fratarcangeli, F., Mazzoni, A., Crespi, M (2015) *Monitoring ground displacements at centimeter level exploiting TerraSAR-X range measurements*, International Geoscience and Remote Sensing Symposium (IGARSS), 2015-November, art. no. 7326039, pp. 1401-1404.
- 38 Nascetti, P. Capaldo, F. Fratarcangeli, M. Di Rita, R. Ravanelli, E. Benedetti, M. Branzanti, A. Mazzoni, M. Crespi (2015). *The contribution of geomatics to the Tematic project: new potentials and challenges in glaciers monitoring*, Alpine Glaciology Meeting, May 7th - 8th 2015, Milan (Italy)

- 39 M. Di Rita, A. Nascetti, M. Crespi (2015). *Open source tool for DSM generation: development and implementation of an OSSIM Plugin*, EARSeL Symposium, June 15th - 19th 2015, Stockholm (Sweden).
- 40 M. Di Rita, A. Nascetti, M. Crespi, *DATE OSSIM Plugin: a new open source tool for digital automatic terrain extraction*, FOSS4G-Europe Conference, July 14th - 17th 2015, Como (Italy), Geomatics Workbooks n° 12, ISSN 1591-092X.
- 41 R. Ravanelli, A. Nascetti, and M. Crespi (2015). An Open Source RANSAC based Plug-In For Building Roof Extraction From LiDAR Point Clouds. In EARSeL proceedings - Abstracts, 15-19 June 2015.
- 42 P. Capaldo, F. Fratarcangeli, A. Nascetti, A. Mazzoni, M. Porfiri, and M. Crespi (2014). *Centimeter range measurement using amplitude data of TerraSAR-X imagery* In: ISPRS Archives, ISPRS Technical Commission VII Symposium (Volume XL-7) 29 September–2 October 2014, Istanbul, Turkey
- 43 A. Nascetti, G. Colosimo (2014). *High resolution SAR imagery orthorectification and 3D stereo measurements: development and implementation of an open source Opticks plug-In* In: 33th Annual EARSeL Symposium, Warsaw (Poland), 16-20 June 2014
- 44 F. Fratarcangeli, G. Murchio, P. Capaldo, A. Nascetti, M. Porfiri *Digital Surface Models from ZiYuan-3 triplet: performance evaluation and accuracy assessment* In: 33th Annual EARSeL Symposium, Warsaw (Poland), 16-20 June 2014
- 45 P. Capaldo, M. Crespi, F. Fratarcangeli, A. Nascetti, F. Pieralice, M. Porfiri, T. Toutin (2013). *DSMs generation from COSMO-SkyMed, Radarsat-2 and TerraSAR-X imagery on Beauport (Canada) test site: evaluation and comparison of different radargrammetric approaches*. The International archives of the photogrammetry, remote sensing and spatial information sciences.
- 46 L. Benenati, P. Capaldo, M. Crespi, F. Fratarcangeli, A. Nascetti, F. Pieralice and M. Porfiri *Fast terrain modeling for hydrogeological risk mapping and emergency management: the contribution of high resolution satellite SAR imagery* (2013), International Workshop "The Role of Geomatics in Hydrogeological Risk", PADUA ITALY 27-28 FEBRUARY 2013
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