

# Marco Gianinetto

## Associate Professor



### SHORT BIO

CV 09/2019

Marco Gianinetto is Associate Professor of Geomatics at Politecnico di Milano. In 2006 and 2007 he received the prize *Young Researcher* from Politecnico di Milano-Department DIAR, in 2009 he got the *Outstanding Paper Awards 2009 – highly commended* from Emerald Group Publishing (UK). Prof. Gianinetto's research interests range from Remote Sensing technologies for Earth Observation to Geosciences, from environmental monitoring to effects of climate change. Prof. Gianinetto has led several research programmes and has granted more than 4.5 million Euros of public, private and industrial fundings. Today, Prof. Gianinetto is a member of the Governing Council of Italian Remote Sensing Association, Co-Editor-in-Chief for European Journal of Remote Sensing (UK) and Associate Editor for International Journal of Remote Sensing (UK) and Journal of Applied Remote Sensing (USA). Altogether, he published about 100 papers co-authored with more than 40 researchers and experts belonging to academia, institutions and industry (source: Scopus, February 2018). In the social media Prof. Gianinetto was in the top 1% of researchers by views among more than 60 million academics on Academia.edu (source: Academia.edu, February 2018) and yielded more than 20,000 reads on ResearchGate (source: ResearchGate, September 2019).

### Contact Information



Marco Gianinetto



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Date of birth: 31/03/1971



Nationality: italian

### Expertise



Remote Sensing systems



Earth observation



Geoinformation



Environmental monitoring



Geosciences

### Languages



Italian



English



French



### EDUCATION

- > **Doctor of Philosophy (PhD)** 05/2006  
Geodesy and Geomatics, *Politecnico di Milano*
- > **Laurea (MSc)** 12/2000  
Environmental and Land Planning Engineering, *Politecnico di Milano*

### EMPLOYMENT HISTORY

- > **National Scientific Qualification for Full Professor** 2016
- > **Associate Professor of Geomatics** 11/2015 - date  
*Politecnico di Milano – Department of Architecture, Built Environment and Construction Engineering (DABC)*
- > **Head of Laboratory of Remote Sensing** 08/2010 - date  
*Politecnico di Milano – Department of Architecture, Built Environment and Construction Engineering (DABC)*
- > **Assistant Professor** 08/2010 - 10/2015  
*Politecnico di Milano – Department of Architecture, Built Environment and Construction Engineering (DABC)*
- > **Assistant Professor** 09/2009 - 07/2010  
*Politecnico di Milano – Department of Building, Environment, Sciences and Technology (BEST)*
- > **Adjunct Professor of Remote Sensing and GIS** 09/2004 - 09/2009  
*Politecnico di Milano*
- > **Research Associate** 05/2002 - 08/2009  
*Politecnico di Milano – Department of Hydraulics, Environmental Engineering and Surveying (DIAR)*
- > **Culture (Scholar) of Remote Sensing** 09/2001 - 09/2003  
*Politecnico di Milano – 1st Faculty of Architecture*
- > **Research Assistant** 02/2001 - 02/2002  
*National Research Council of Italy - Institute for Electromagnetic Sensing of the Environment (CNR-IREA)*

### PROFESSIONAL QUALIFICATIONS

- > **Italian licence to practise Engineering** 2001  
*Ordine degli Ingegneri della Provincia di Milano*

## MEMBER OF INTERNATIONAL PANELS

- > **Panel Member for Horizon 2020**  
European Commission, EASME - Executive Agency for SMEs (*European Union*)

2019
- > **Member of the international panel of experts for the Programme “STEREO: Support to The Exploitation and Research of Earth Observation data”**  
Belgian Science Policy Office (*Belgium*)

2017
- > **Scientific Advisor for the study “Space Market Uptake in Europe”**  
Centro Studi Industria Leggera  
Study for the European Parliament commissioned by the Directorate General for Internal Policies – Policy Department A (*European Union*)

2015

## MEMBER OF ADVISORY BOARDS

- > **Evaluator for “Programme Appel à projets générique 2017”**  
French National Research Agency (*France*)

2017
- > **Evaluator for “Finanziamento di progetti competitivi per ricercatori a tempo determinato – Anno 2016”**  
University of Florence (*Italy*)

2016
- > **Evaluator for “Valutazione della Qualità della Ricerca (VQR 2011-2014)”**  
National Agency for the Evaluation of University and Research (*Italy*)

2016
- > **Evaluator for “Progetti di ricerca di Rilevante Interesse Nazionale 2015”**  
Ministry of Education, Universities and Research (*Italy*)

2016
- > **Evaluator for “Programme Appel à projets générique 2016”**  
French National Research Agency (*France*)

2016
- > **Evaluator for “STEREO: Support to The Exploitation and Research of Earth Observation data”**  
Belgian Science Policy Office (*Belgium*)

2015
- > **Evaluator for “Individual Research Grants”**  
Israel Science Foundation (*Israel*)

2014
- > **Evaluator for “Futuro in Ricerca 2013”**  
Ministry of Education, Universities and Research (*Italy*)

2013
- > **Evaluator for “Progetti Premiali 2012”**  
Ministry of Education, Universities and Research (*Italy*)

2012
- > **Evaluator for “Memorandum of Understanding Romania-France «IDEAS» Programme”**  
National Research Council of Romania (*Romania*)

2011

## MEMBER OF SCIENTIFIC COMMITTEES

- > **Scientific Committee Member**  
Politecnico di Milano – Department of Architecture, Built Environment and Construction Engineering

2013 –  
date
- > **Member of the Cadastre Commission**  
Engineering Register of Milano (*Italy*)

2002 –  
2005

## TECHNOLOGY TRANSFER

- > **Member of the technology transfer board ENI@POLIMI**  
for promoting breakthrough innovation in the oil & gas industry. Contact person for Geosciences  
Politecnico di Milano

2012 –  
2015
- > **Member of the board of experts for Sovvenzione Globale Ingenio**  
for supporting research , start-up and technology transfer  
Regione Lombardia

2006 –  
2007
- > **Scientific supervisor for “MARS: Moisture Assessment by Remote Sensing”**  
with the contribution of the technology transfer office of Politecnico di Milano, in the framework of “programma regionale di azioni innovative (Minerva)”. Pilot action for new practices to support start-up, spin-off and innovation enterprise (decision of European Commission of 27/02/2002)  
Regione Lombardia

2004

## TEACHING

- > **Remote Sensing** 2012 –  
*Politecnico di Milano – School of Civil, Environmental and Land Management Engineering*  
**Associate Professor** (Assistant Professor since 2015) date
- > **Survey** 2018 –  
*Politecnico di Milano – School of Architecture Urban Planning Construction Engineering*  
**Associate Professor** date
- > **Fundamentals of Photogrammetry** 2015 –  
*Politecnico di Milano, Polo Territoriale di Lecco – School of Civil, Environmental and Land Management Engineering* 2018  
**Associate Professor**
- > **Geographic Information Systems and Remote Sensing (in English)** 2007 –  
*Politecnico di Milano, Polo Territoriale di Lecco – 1st Faculty of Engineering* 2009  
**Adjunct Professor**
- > **Master in Civil Protection** 2005 –  
*Politecnico di Milano, 1st Faculty of Engineering* 2006  
**Lecturer** (when Research Associate/PhD)
- > **Geographic Information Systems and Remote Sensing** 2004 –  
*Politecnico di Milano, Polo Territoriale di Lecco – 1st Faculty of Engineering* 2007  
**Adjunct Professor**
- > **Remote Sensing 1** 2003 –  
*Politecnico di Milano – 1st Faculty of Engineering* 2009  
**Teaching Assistant** (when Research Associate/PhD)
- > **Remote Sensing 2** 2003 –  
*Politecnico di Milano – 1st Faculty of Engineering* 2009  
**Teaching Assistant** (when Research Associate/PhD)
- > **Master in Civil Protection** 2003 –  
*Politecnico di Milano, 1st Faculty of Engineering* 2004  
**Lecturer** (when Research Associate/PhD)
- > **Master in Civil Protection (conference call with Colombia)** 2003 –  
*Monserate Onlus* 2004  
**Lecturer** (when Research Associate/PhD)
- > **Remote Sensing** 2000 –  
*Politecnico di Milano – 1st Faculty of Engineering* 2003  
**Teaching Assistant** (when Research Associate)
- > **Remote Sensing applications** 2000 –  
*Politecnico di Milano – 1st Faculty of Architecture* 2001  
**Scholar** (when Research Associate)

## EDITORIAL BOARDS

- > **Co-Editor-in-Chief**, European Journal of Remote Sensing (journal WoK & SCOPUS) 11/2012 –  
*Taylor & Francis (UK)* (Associate Editor from 03/2011 to 11/2012) date
- > **Associate Editor**, Italian Journal of Remote Sensing (journal WoK & SCOPUS) 01/2008 –  
*Italian Remote Sensing Association (Italy)* 03/2011
- > **Associate Editor**, International Journal of Remote Sensing (journal WoK & SCOPUS) 06/2007 –  
*Taylor & Francis (UK)* date
- > **Associate Editor**, International Journal of Navigation and Observation (journal SCOPUS) 04/2007 –  
*Hindawi Publishing Corporation (Egypt/USA)* 03/2018
- > **Associate Editor**, Journal of Applied Remote Sensing (journal WoK & SCOPUS) 12/2006 –  
*SPIE - The International Society for Optical Engineering (USA)* date
- > **Member of the editorial board**, Rivista Italiana di Telerilevamento 07/2003 –  
*Italian Remote Sensing Association (Italy)* 12/2007

## RESEARCH ACTIVITIES - CHIEF SCIENTIFIC OFFICER

- > **Principal Investigator** for “Hydrogeological modeling for Erosion Risk Assessment from SpacE (HERASE)” 2017 –  
*Cariplo Foundation* date
- > **Co-Investigator** for “Analysis of present technologies for monitoring ENEL’s power lines with remote sensing” 2016 –  
*CEFRIEL / ENEL* 2017
- > **Principal Investigator** for “New co-registration methods for COSMO-SkyMed data” 2015 –  
*Italian Space Agency* 2016
- > **Principal Investigator** for “Geostatistical analysis for the environmental monitoring of offshore platform” 2015  
*Shelter*
- > **Co-Investigator** for “Space Shepherd: using space systems to save human lives” 2014 –  
*Fondazione Politecnico di Milano* 2015
- > **Principal Investigator** for “Feasibility study for the real-time environmental monitoring of an offshore platform by means of image analysis” 2014  
*Shelter*
- > **Principal Investigator** for “READ Project: Myanmar Blocks PSC-K and RSF-5” 2015  
*Eni*
- > **Principal Investigator** for “READ Project: Kenya Blocks 14T and 12B” 2014  
*Eni*
- > **Principal Investigator** for “READ Project: Myanmar” 2013 –  
*Eni* 2016
- > **Principal Investigator** for “READ Projects: Lake Turkana, Lake Rukwa and Lake Malawi” 2013 –  
*Eni* 2015
- > **Principal Investigator** for “Applications of Remote sensing Earth Anomaly Detection in new ventures areas” 2013 –  
*Eni* 2016
- > **Principal Investigator** for “Analysis of MIVIS hyperspectral images collected over Block 222B in Algeria” 2012 –  
*Eni* 2013
- > **Principal Investigator** for “Evaluation of areas subject to erosion with remote sensing” in the framework of “Monitoring Natural Recovery for the Lake Maggiore/Toce river system” 2012 –  
*Syndial* 2014
- > **Principal Investigator** “Remote sensing urban analysis” in the framework of “Sustainable Social Economic and Environmental Revitalization in the historic core of Multan City” 2012  
Funded by the Italian-Pakistani swap agreement with the support of Italian Ministry of Foreign Affairs, Embassy of Italy at Islamabad and Fondazione Politecnico di Milano
- > **Principal Investigator** for “Bunkering” 2012  
*Eni*
- > **Co-Investigator** for FIRB 2010 Programme “Subpixel methods for homologous search, image registration and change detection in civil and environmental engineering” 2012 –  
*Ministry of Education, Universities and Research (Italy)* 2015
- > **Principal Investigator** for “Validation of multidisciplinary methods for the analysis of optical remote sensing data (MIVIS) for the detection of microseepage effects correlated with deep hydrocarbon reservoirs” 2010 –  
*Eni* 2012
- > **Principal Investigator** for “Analysis and interpretation of multi-source optical and radar data for the detection of hydrocarbon contamination in Abu Rudeis” 2010 –  
*Eni* 2012

## RESEARCH ACTIVITIES - CHIEF SCIENTIFIC OFFICER (continue)

- > **Project manager** for “Evaluation of Cosmo-SkyMed system performances and simulation of future dual and bilateral system for Earth Observation ORFEO with existing optical data (ID#1160)” in the framework of Announcement of Opportunity “The demonstration of the COSMO-SkyMed capabilities and exploitation for science and civilian applications (n. 1/042/09/0)”  
*Italian Space Agency* 2010 – 2012
- > **Project manager** for “Multidisciplinary analysis of remotely sensed data with optical sensors for the detection of microseepage phenomena correlated with deep hydrocarbon reservoirs ”  
*Eni* 2008 – 2010
- > **Co-Investigator** for “Cartosat-1 Scientific Assessment Programme Announcement of Opportunity”  
*Indian Space Research Organisation (India)* 2006 – 2008
- > **Principal Investigator** for “Calibration of airborne hyperspectral images”  
*Italian Remote Sensing Association* 2001
- > **Supervisor** of Research Assistant Dr. Francesco Niccolò Polinelli, Research Programme “Analysis of hydrogeological risk with Remote Sensing techniques” 02/2018 – date
- > **Supervisor** of Research Assistant Dr. Renata Vezzoli (**postdoc**), Research Programme “Hydrogeological modeling for Erosion Risk Assessment from SpacE (HERASE) in climate change scenarios with multi-source data assimilation techniques” 07/2017 – date
- > **Supervisor** of Research Assistant Dr. Martina Aiello (**technologist from 03/2019**), Research Programme “Space Shepherd” 07/2017 – 02/2019
- > **Supervisor** of Research Assistant Dr. Mauro Migliazzi, Research Programme “Remote Sensing applications for the oil & gas industry” 03/2013 – 02/2014
- > **Supervisor** of Research Assistant Dr. Giorgio Dalla Via (**postdoc**), Research Programme “Analysis of geophysical parameters with remotely sensed data” 06/2012 – 01/2015
- > **Supervisor** of Research Assistant Dr. Marco Rusmini, Research Programme “Integration and fusion of high-resolution optical and radar data for environmental applications” 06/2012 – 11/2012
- > **Supervisor** of Research Assistant Dr. Luigi Barazzetti (**postdoc**), Research Programme “Subpixel methods for homologous search, image registration and change detection” 02/2012 – 02/2015
- > **Supervisor** of Research Assistant Dr. Federico Frassy, Research Programme “Vegetation analysis with hyperspectral MIVIS data” 06/2010 – 06/2018
- > **Supervisor** of Research Assistant Dr. Gabriele Candiani (**postdoc**), Research Programme “Aerial and satellite remote sensing for the study of environmental dynamics” 06/2012 – 05/2010
- > **Supervisor** of Research Assistant Dr. Marco Rusmini, Research Programme “Integration and fusion of COSMO-SkyMed data with high-resolution multispectral images for the simulation of the ORFEO system” 06/2010 – 05/2012
- > **Supervisor** of Research Assistant Dr. Andrea Marchesi, Research Programme “Multispectral and hyperspectral remote sensing for the definition of biophysical parameters in natural landscapes” 06/2010 – 10/2016
- > **Supervisor** of Research Assistant Dr. Riccardo Tortini, Research Programme “Development of methods for the spectral analysis of ASTER data” 04/2010 – 01/2011
- > **Supervisor** of Research Assistant Dr. Laura Marzorati, Research Programme “High-efficiency geophysical surveys” 09/2009 – 09/2018
- > **Supervisor** of Research Assistant Dr. Pieralberto Maianti (**postdoc**), Research Programme “Use of airborne hyperspectral remote sensing for hydrocarbon exploration” 12/2008 – 05/2016
- > **Supervisor** of Research Assistant Dr. Francesco Rota Nodari (**technologist from 05/2015 to 03/2018**), Research Programme “Image processing of MIVIS hyperspectral data for the detection of microseepage phenomena” 12/2008 – 04/2015

## FOUNDRAISING

- > More than **4.5 million Euro** of public, private and industrial funds



## MEMBERSHIP OF ACADEMIC SOCIETIES

- > **Member of Governing Council** 2019 – date  
*Italian Remote Sensing Association (Italy)*
- > **Member** 2007 – 2010  
*American Society for Photogrammetry & Remote Sensing (USA) – Primary Data Acquisition Division (PDAD)*
- > **Member** 2007 – 2010  
*Institute of Electrical and Electronics Engineers (USA) – Geoscience and Remote Sensing Society*
- > **Member** 2007 – date  
*Remote Sensing and Photogrammetry Society (UK)*
- > **Member** 2004 – 2008  
*International Society for Photogrammetry and Remote Sensing (USA)*  
Working Group III/1 “Automatic Calibration and Orientation of Optical Sensors”  
Working Group VII/6 “Remote Sensing and data fusion”  
Working Group VIII/2 “Hazards, Disasters and Public Health”
- > **Member** 2001 – date  
*Italian Remote Sensing Association (Italy)*
- > **Member** 2001 – 2005  
*Associazione Ingegneri per l'Ambiente e il Territorio (Italy)*

## MEMBER OF INTERNATIONAL CONFERENCES

- > **International Scientific Committee**, 7th International Conference on Remote Sensing and Geoinformation of Environment (RSCy2019), 18-21 March 2019, Paphos, **Cyprus**
- > **Organizing Committee Member**, IX Conference of the Italian Society of Remote Sensing (AIT 2018), 4-6 July 2018, Firenze, Italy
- > **International Committee Member**, 6th International Conference on Remote Sensing and Geoinformation of Environment (RSCy2018), 26-29 March 2018, Paphos, **Cyprus**
- > **Program Committee Member**, International Conference on Photonics, Optics and Laser Technology (PHOTOPTICS 2018), 25-27 January 2018, Funchal, **Madeira – Portugal**
- > **Program Committee Member**, International Conference on Photonics, Optics and Laser Technology (PHOTOPTICS 2017), 27 February – 1 March 2017, Porto, **Portugal**
- > **Program Committee Member**, International Conference on Photonics, Optics and Laser Technology (PHOTOPTICS 2016), 17-19 February 2016, Roma, Italy
- > **Program Committee Member**, International Conference on Remote Sensing Technologies and Applications (ICRSTA 2015), 20-22 Novembre 2015, Guilin, **China**
- > **Organizing Committee Member & Students Program Co-Chair**, International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015), 26-31 July 2015, Milano, Italy
- > **Chairman**, International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015), 26-31 July 2015, Milano, Italy, session “Emergency Response II”
- > **Chairman**, International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015), 26-31 July 2015, Milano, Italy, session “Remote Sensing in the Oil and Gas Industry”
- > **Program Committee Member**, International Conference on Photonics, Optics and Laser Technology (PHOTOPTICS 2015), 13-15 March 2015, Berlin, **Germany**
- > **Scientific Committee Member**, 1st International Geomatics Applications Conference (Geomapplica 2014), 8-11 September 2014, Skiathos, Island, **Greece**
- > **Scientific Committee Member**, 2nd International Conference on Remote Sensing and Geoinformation of Environment (RSCy2014), 7-10 April 2014, Paphos, **Cyprus**
- > **Technical Program Committee Member**, 2014 International Conference on Applied Mechanics, Mechatronics and Intelligent System (AMMIS 2014), 18-20 April 2014, Chansha, **China**
- > **Program Committee Member**, International Conference on Photonics, Optics and Laser Technology (PHOTOPTICS 2014), 7-9 January 2014, Lisbon, **Portugal**

## ORGANIZZAZIONE DI CONFERENZE INTERNAZIONALI (continue)

- > **Program Committee Member**, International Conference on Photonics, Optics and Laser Technology (PHOTOPTICS 2013), 20-21 February 2013, Barcelona, **Spain**
- > **Chairman**, 2012 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2012), 22-27 July 2012, Munich, **Germany**, session “Urban Remote Sensing II”
- > **Reviewer Committee Member**, Digital Image Computing: Techniques and Applications 2011 (DICTA2011), 6-8 December 2011, Queensland, **Australia**
- > **Reviewer Committee Member**, Digital Image Computing: Techniques and Applications 2010 (DICTA2010), 1-3 December 2010, Sydney, **Australia**
- > **Program Committee Member**, Digital Image Computing: Techniques and Applications 2009 (DICTA2009), 1-3 December 2009, Melbourne, **Australia**
- > **International Advisory Board Member**, IEEE Region 8 Eurocon 2009 Conference, 18-23 May 2009, St. Petersburg, **Russia**
- > **Technical Committee Member**, 2009 Middle East Spatial Technology 5th Conference & Exhibition (MEST2009), 7-9 December 2009, **Barhain**
- > **Program Committee Member**, 4th International Conference “Earth from Space - the Most Efficient Solutions”, 1-3 December 2009, Moscow, **Russia**
- > **Technical Program Committee Member**, 2008 IEEE International Geoscience & Remote Sensing Symposium (IGARSS 2008), 6-11 July 2008, Boston, **United States**
- > **Technical Program Committee Member**, Digital Image Computing: Techniques and Applications 2008 (DICTA2008), 1-3 December 2008, Canberra, **Australia**
- > **Technical Program Committee Member**, 2008 Progress In Electromagnetics Research Symposium (PIERS2008), 2-6 July 2008, Cambridge, **United States**
- > **Technical Committee Member**, 2007 Middle East Spatial Technology 4th Conference & Exhibition (MEST2007), 10-12 December 2007, **Barhain**
- > **Program Committee Member**, 3rd International Conference “Earth from Space - the Most Efficient Solutions”, 4-6 December 2007, Mosca, **Russia**
- > **Program Committee Member**, ISPRS Photogrammetric Image Analysis Conference (PIA07), 19-21 September 2007, Munich, **Germany**
- > **International Steering Committee Member**, 2nd International Conference of GIS/RS in Hydrology, Water Resources and Environment (ICGRHWE'07), 17-19 September 2007, Guangzhou, **China**
- > **International Steering Committee Member**, 2nd International Symposium on Flood Forecasting and Management with GIS and Remote Sensing (FM2S'07), 20-23 September 2007, Three Gorges, **China**
- > **Scientific Committee Member**, IEEE Eurocon 2007 International Conference on “Computer as a tool”, 9-12 September 2007, Warsaw, **Poland**
- > **Programme Committee Member**, United Nations/Morocco/ESA International Workshop on “the Use of Space Technology for Sustainable Development”, 25-27 April 2007, Rabat, **Marocco**
- > **Chairman**, 2006 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2006) & 27th Canadian Symposium on Remote Sensing, 31 July - 4 August 2006, Denver, **United States**, session “Disaster Monitoring and Management”

## PUBLICATIONS

Prof. Gianinetto's publications are available through the following repositories:

- > RE.PUBLIC@POLIMI (<https://re.public.polimi.it/cris/rp/rp19196>)
- > Academia.edu (<https://polimi.academia.edu/MarcoGianinetto>)
- > ResearchGate ([https://www.researchgate.net/profile/Marco\\_Gianinetto](https://www.researchgate.net/profile/Marco_Gianinetto))
- > Google Scholar (<https://scholar.google.it/citations?user=xaY-tQ8AAAAJ&hl=it>)

## AUTHORIZATION TO THE PROCESSING OF PERSONAL DATA

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003 and the European GDPR (Regulation EU 2016/679), I hereby authorize you to use and process my personal details contained in this document.