

PERSONAL INFORMATION

Antonio Vettore

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✉ antonio.vettore@unipd.it

🌐 <http://www.cirgeo.unipd.it/cirgeo/about-us/antonio-vettore.html>

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WORK EXPERIENCE

From 2006 – to now

Full professor of Geomatics, Topography and Cartography at the University of Padua, Italy

From 2016 – to now

Head of the Italian association of professors and researchers on Geomatics, Topography and Cartography (AUTeC)From 2012 – to now
From 2004 – to 2008**Director of Research Center of Geomatics (CIRGEO) of the University of Padua, Italy**

2007

Co-founder of the “Geomatica e Ambiente” (Geomatics and Environment) spin-off of the University of Padua

From 1991 – to 2005

Associate professor of Geomatics, Topography and Cartography at the University of Padua, Italy

From 1976 – to 1996

Freelance Engineer:
Civil and Structural Engineering

From 1987 – to 1991

Associate professor of Geomatics, Topography and Cartography at the University of Basilicata, Italy

1986

Post-doc on Statistical Science at the Université Madame Curie, Paris, France

EDUCATION AND TRAINING

1981 – 1984

PhD Topographic and Geodetic Sciences – Istituto di Topografia e Geodesia, University of Bologna, Italy. Supervisor Prof. Pieri

1980

Master on Geodetic Sciences – Istituto di Topografia, University of Padua, Italy. Supervisor Prof. Valentino Tomelleri.

1976

Civil Engineering degree – (Istituto di Tecnica delle Costruzioni e Trasporto), University of Padua, Italy. Supervisor Prof. Bernardini

**GENERAL CHAIR AND
ORGANIZER OF SCIENTIFIC
MEETINGS**

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- 2021 International Symposium on Mobile Mapping Technology MMT21, International Conference, Co-Chair of the Conference, expected 200 participants, Padua, Italy
 - 2019 R3 in Geomatics: Research, Results and Review
International Workshop in memory of Prof. Raffaele Santamaria; Co-Chair of the Conference, 100 participants, Naples, Italy
 - 2017 Italian Workshop “Geomatics and Cultural Heritage”, Chair of the Conference, 50 participants, Padua, Italy.
 - 2013 The Role of Geomatics for hydrogeological Risk, International Conference, Chair of the Conference, 100 participants, Padua, Italy
 - 2007 International Symposium on Mobile Mapping Technology MMT07, International Conference, Chair of the Conference, 200 participants, Padua, Italy
 - 2005 2nd Italy-Canada workshop on Applications of 3D Digital, Imaging and Modeling, International Conference, Chair of the Conference, 100 participants, Padua, Italy
 - 2001 1st Italy-Canada workshop on Applications of 3D Digital, Imaging and Modeling, International Conference, Chair of the Conference, 100 participants, Padua, Italy

COMMISSIONS OF TRUST

In the scientific committee for tens of international scientific conferences
In the scientific committee for the evaluation of tens of PhD students
In the scientific committee for the evaluation of tens of applications for assistant professor, associate professor and full professor positions in Italy
Reviewer of tens of national and international research projects
In the editorial board of Applied Geomatics
Reviewer for tens of international scientific journals of geomatics, construction, remote sensing, photogrammetry and navigation.

**RESEARCH INTERESTS,
ACTIVITIES,
COLLABORATIONS AND
RECENT AWARDS****Interests**

He is **author of more than 200 publications in the fields of Geomatics, Civil and Construction Engineering, Surveying, Photogrammetry, Cartography and Remote Sensing.**

His main research interests are on:

- *Mobile Mapping Systems (MMS), Inertial Navigation Systems, Image Processing, Road and Transport Network mapping and analysis. Use of MMS for the automatic extraction of information, mapping, monitoring and real time scene*

understanding (e.g. to support autonomous driving) purposes.

- *Building, structure, infrastructure and environmental hazard (e.g. landslide) modelling (e.g. BIM) and monitoring.*
- *Application of Laser Scanner and GPS / INS techniques for Surveying and 3D modelling of archaeological sites.*
- *Processing of LiDAR data from airborne or ground sensors (ALS & TLS).*
- *Remote Sensing: processing optical and radar satellite data to extract geometric and/or semantic information.*

Research Group Coordinator

At the University of Padua, **he leads a group composed by two associate professors, 2+ post-docs, and a variable number of PhD students and other grad-students.**

Experiences as Project/Research Unit Coordinator

He has a **25+ year experience in being general and/or local coordinator in national and international projects** (e.g. head of research units in several national (Italian Ministry of Education, Italian Civil Protection Agency) projects, and of European ones, such as:

- Principal Investigator of the “HyperEarths – Shared infrastructure for the acquisition, analysis, management and sharing of big data for technical-scientific researches in the Earth Observation sector“ project, 2019-2020 – 260k Euro
- Principal Investigator in the European CEI KEP project “DAMS SAFETY a new approach for the monitoring of the dams with the use of remote sensing” 2016-2018 – 40k Euro
- Supervisor in the European project H2020 Marie Skłodowska-Curie project “CReScenDo-Combining Remote Sensing Technologies for Peatland Detection and Characterization” 2017-2019 – 180k Euro
- Supervisor of the Geomatics working package of the International Project “Design study of irrigation and sewer systems in the Bugesera district” 2016-2019
- Coordinator of the Geomatics unit in the “Museo Multimediale delle Mura” (Multimedia Museum of the Walls of Padua) project, 2016 – 30k Euro
- Principal Investigator of the “3D modelling of Villa Revedin Bolasco“, 2012-2015, University of Padua, 65k Euro.
- Scientific participant of the “Not-Ordinary Plan of Remote Sensing - Auditing and monitoring areas with high landslide risk” project of the Italian Ministry of the Environment and for Protection of the Land and Sea (Ministero dell’Ambiente e della tutela del territorio e del mare). CIRGEO participated as one of the two scientific supervisors of the project to all the three phases of the project: 2008-2009, 2010-2011, 2013-2015. 500k Euro (overall project budget: 4M Euro)

Membership of National and International Scientific Societies

He is actively involved in the International Society of Photogrammetry and Remote Sensing and served in 2000-2004 as chair of the Working Group "Kinematic and Integrated Positioning System".

He is member of:

- IEEE (2010-now),
- AUTeC (Italian association of professors and researchers on Geomatics, Topography and Cartography, 2002-now)
- SIFET (Italian Society of Photogrammetry and Remote Sensing, 2012-now)
- National Research Council of Canada

International Collaborations

He has **several international scientific collaborations** with the University California Berkeley (USA), Department of Forestry Science; University of Melbourne (Australia) Department of Geomatics; University of Calgary (Canada)

Department of Geomatics; ETH Zurich Polytechnic (Switzerland), Department of Civil Engineering; TU Wien (Austria), Institute of Geodesy and Geophysics, and Department of Geodesy and Geoinformation; Ohio State University (USA), Department of Civil, Environmental and Geodetic Engineering, Purdue University (USA), Lyles School of Civil Engineering; National Technical University of Athens, School of Rural and Surveying Engineering.

Periods as Visiting Scholar

- Visiting scholar (1999) at the Virtual Information Technology Group, Institute for Information Technology, National Research Council of Canada NRC.
- Visiting Professor (2001) University of Calgary (Canada).
- Visiting Professor (2006) Department of Geomatics University of Melbourne (Australia).
- Visiting Professor (2008) Technological University of Buenos Aires (UTBS).

Recent Awards

- **Outstanding Achievement Award – MMT19**, May 2019, Shenzhen, China
- **Best Poster Award** – Midterm Symposium of ISPRS Technical Commission II – Photogrammetry – June 2018, Riva del Garda, Italy