

Maria Antonia Brovelli



Degree with honours in Physics, PhD in Geodesy and Cartography. She is Professor of “GIS” and “The Copernicus Green Revolution for sustainable development” at Politecnico di Milano (PoliMI) and a member of the School of Doctoral Studies in Data Science at “Roma La Sapienza” University. From 2006 to 2011 she lectured GIS at the ETH of Zurich and from 1997 to 2011 she was the Head of the Geomatics Laboratory of PoliMI (Campus Como). From 2011 to 2016 she was the Vice-Rector of PoliMI for the Como Campus. Currently she is the coordinator of the Copernicus Academy Network for the PoliMI and the Head of the GEOLab, the Interdepartmental Lab where 7 Departments of POLIMI are contributing.

She is Vice President of the ISPRS Technical Commission on Spatial Information Science, former member of ESA ACEO (Advisory Committee of Earth Observation); co-chair of the United Nations Open GIS Initiative, chair of the UN-GGIM (Global Geospatial Information Management) Academic Network, mentor of the PoliMI Chapter of YouthMappers (PoliMappers), one of the three curators of the geospatial series of the AI for Good, organized by ITU in partnership with 40 UN Sister Agencies.

Her research activity is in the field of geomatics. Her interests have been various, starting from geodesy, radar-altimetry and moving later to GIS, webGIS, geospatial web platform, VGI, Citizen Science, Big Geo Data, geoAI. She is participating and leading research on these topics within the frameworks of both national and international projects and scientific networks. One of her main interests is in Open-Source GIS, where she is playing a worldwide leading role.

Matrix overview

Scopus Author ID: <https://www.scopus.com/authid/detail.uri?authorId=6602533891>

WoS Author ID: <https://publons.com/researcher/2916607/maria-antonia-brovelli/>

ORCID ID: <https://orcid.org/0000-0003-3161-5561>

Google Scholar ID: https://scholar.google.it/citations?hl=it&user=qXBjE_AAAAAJ

Typology	#Documents	#Citations	#h index
WoS	74	651	13
Scopus	167	1233	17
Google	435	2693	24

(1/12/2022)

Recent Research Projects

- 2008 - 2010 PRIN: Free and open source geoservices as interoperable tools for sharing geographic data through the internet – Leader of the Politecnico di Milan Unit.
- 2010 - 2012 HeliDEM, INTERREG project Italy-Switzerland. Participant.

- 2010 - 2012 web C.A.R.T.E. – Como (web Catalogo e Archivio delle Rappresentazioni del Territorio e delle sue Evoluzioni – Como: Catalogue Service for the Web and Archive of the Territory Representations and its Evolutions) – Sponsored by Fondazione Provinciale della Comunità Comasca Onlus – Project leader.
- 2012 - 2012 “On the exploitation and validation of COSMO-SkyMed interferometric SAR data for digital terrain modelling and surface deformation analysis in extensive urban areas” – Agreement n. I/044/09/0 Italian Space Agency and Institute for Electromagnetic Sensing of the Environment (IREA) - National Coordinator Ing. Lanari –IREA). Participant.
- 2011 - 2013 Green Move, Sustainable Mobility Project of the Politecnico di Milano for Regione Lombardia –Leader of the Geomatics area.
- 2013 - 2015 INTERREG project IT-CH 2007-2013. Project: “I CAMMINI DELLA REGINA”, ID 33829732, Misura 3.1, P.O. Cooperazione Transfrontaliera - Project leader.
- 2016-2017 GEO team on Data Validation of Global Land Cover Datasets (within GEO SB-02-02: Global LandCover and User Engagement).
- 2016 - 2018 Erasmus + giCASES (Creating a University-Enterprise Alliance for a Spatially Enabled Society) -Leader of the Politecnico di Milano Unit.
- 2017 – Cariplo Foundation “Brezza” - Leader of the Politecnico di Milano Unit.
- 2018 - 2019 Cariplo Foundation “Mychonos” – Participant.
- 2018 ISPRS Capacity Building Initiative: “Capacity Building for High-Resolution Land Cover Inter-comparison and Validation” - Project Leader.
- 2017- 2020 Erasmus + “Geodesy and Geoinformatics for Sustainable Development in Jordan” (GEO4D) –Participant
- 2017 - 2020 MIUR (Ministry of Education, University and Research) National Project PRIN: “URBAN GEOMatics for Bulk Information Generation, Data Assessment and Technology Awareness” (URBAN GEO BIGDATA) – Project leader.
- 2018 – 2021 ESA “High Resolution Land Cover CCI +”. Leader of the Politecnico di Milano Unit.
- (Subcontractor)
- 2019-2020 INTERREG V-A project IT-CH 2014-2020 – “GIOCONDA” - ID 570702, Open data and public administration: design, data format transformation and geo-referencing. Participant.
- 2019-2021 INTERREG V-A project IT-CH 2014-2020 – “INSUBRIPARKS” - ID 605472, Database and applications design for the Insubric parks monitoring and touristic promotion. Leader of the Politecnico di Milano Unit.
- 2019- 2021 INTERREG V-A Italy Switzerland 2014-2020 – “SIMILE” - ID 523544, An Information System for the Integrated Monitoring of Insubric Lakes and their Ecosystem. Project Leader.
- 2019-2022 Erasmus+ project - "CIDMA" - Climate Change Induced Disaster Management in Africa. Leader of the Politecnico di Milano Unit.
- 2020-2023 Erasmus + project - "GIS4SCHOOLS" - Leader of the Politecnico di Milano Unit.
- 2021-2023 GEOMLIV MAE – Italy-Vietnam Cooperation - Geoinformatics and Earth Observation for landslide monitoring. Project Leader.
- 2021-2023 D-DUST - Data-driven modelling of particulate with Satellite Technology aid – Fondazione Cariplo Project – Leader of the Project.
- 2021-2024 HARMONIA - Development of a Support System for Improved Resilience and Sustainable Urban areas to cope with Climate Change and Extreme Events based on GEOSS and Advanced Modelling Tools. H2020 Project – Participant.
- 2022-2025 Erasmus + project EUthmappers – open and collaborative mapping for pupils-led projects in Secondary Schools through innovative teaching methodology and fostering STEAM education and Environmental engagement. Leader of the Politecnico di Milano Unit.

ISPRS President’s Honorary Citation

(2020)

Sol Katz Award – OSGeo (2015)

Scientific Networks

- 2012-2016 COST Action TD1202 | Mapping and the citizen sensor
- 2012-2016 COST Action C1203 | European Network Exploring Research into Geospatial Information Crowdsourcing: software and methodologies for harnessing geographic information from the crowd (ENERGIC)
- 2016-2017 GEO team on Data Validation of Global Land Cover Datasets (within GEO SB-02-02: Global

LandCover and User Engagement).

- 2015-2019 COST Action TD1403 | Big Data Era in Sky and Earth Observation (BIG-SKY-EARTH)
- 2016-2020 COST Action CA15212 | Citizen Science to promote creativity, scientific literacy, and innovation throughout Europe
- 2016-2022 UN GGIM Academic Network

Editor

ISPRS International Journal of Geoinformation (Associate Editor in charge of the Area: Geospatial Artificial Intelligence)

Remote Sensing, Section 'Engineering Remote Sensing' Associate Editor.

International Journal of Digital Earth Editorial Board Member

Special Issues Guest Editor

- Proceedings Workshop “WebMGS 2010: 1st International Workshop on Pervasive Web Mapping, Geoprocessing and Services”, Eds. M.A. Brovelli, S. Dragicevic, S. Li, B. Veenendaal, ISPRS Archives – Volume XXXVIII- 4/W13, 2010, pp. 1-258.
- Special Issue on “Mobile Mapping for Disaster Relief”, Eds. D. Alvarez, P. Boccoardo, M.A. Brovelli, M. Madden, PE&RS, October 2013, pp. 901-973.
- Theme section “Towards Intelligent Geoprocessing on the Web”, Eds. S. Li, S. Dragicevic, B. Veenendaal, Maria Antonia Brovelli, ISPRS Journal of Photogrammetry and Remote Sensing, Vol. 83, September 2013, pp. 138-204
- Proceedings Workshop WebMGS 2015, B. Veenendaal, M. A. Brovelli, and L. Wu, ISPRS Archives, Volume XL-4/W7, 2015, pp.1-45
- Proceedings “XXIII ISPRS Congress”, Commission II, Eds. L. Halounova, S. Li, V. Šafář, M. Tomková, P. Rapant, K. Brázdil, W. (John) Shi, F. Anton, Y. Liu, A. Stein, T. Cheng, C. Pettit, Q.-Q. Li, M. Sester, M. A. Mostafavi, M. Madden, X. Tong, M. A. Brovelli, K. HaeKyong, H. Kawashima, and A. Coltekin, ISPRS Archives, Volume XLI- B2, 2016, pp. 1-760.
- Proceeding “XXIII ISPRS Congress”, Commission VII, Eds. L. Halounova, F. Sunar, M. Potůčková, L. Patková, M. Yoshimura, U. Soergel, E. Ben-Dor, J. Smit, G. Bareth, J. Zhang, S. Kaasalainen, U. Sörgel, B. Osmanoglu, M. Crespi, M. Crosetto, T. Blaschke, M. A. Brovelli, and B. Zagajewski, ISPRS Archives, Volume XLI-B7, 2016, pp. 1-1006.
- Proceedings “FOSS4G-Europe 2017 – Academic Track”, Eds. M. A. Brovelli, D. Kotzinos, N. Paparoditis, and V. Raghavan, ISPRS Archives, Volume XLII-4/W2, 2017, pp. 1-178
- Proceedings “FOSS4G 2018 – Academic Track”, Eds. M.A. Brovelli and A.H. Namangaya, ISPRS Archives, Volume XLII-4/W8, 2018, pp.1-241
- Special Issue on “Web/cloud based mapping and geoinformation”, Eds. B. Veenendaal, M.A. Brovelli, S. Coetzee, P. Mooney, ISPRS International Journal of Geo-Information.
- Special Issue "Geospatial Big Data and Urban Studies", Eds. M.A. Brovelli, H. M. Abdulmuttalib, P. Mooney, C. Pettit, ISPRS International Journal of Geo-Information.
- Special Issue "State-of-the-Art in Spatial Information Science", Eds. S. Li, M.A. Brovelli, Z. Slatanova, M. Sester, ISPRS International Journal of Geo-Information.
- Special Issue ““Earth Observation and Citizen Contributed Data for Urban Sustainability”, Eds. M.A. Brovelli, Qi Zhu and Andong Ma, Remote Sensing
- Special Issue “Trustful and Ethical Use of Geospatial Data”, Eds. M.A. Brovelli, S. Li and I. Ivanova, ISPRS International Journal of Geo-Information.
- Special Issue: “Human-Induced Disaster and Conflict Analysis, Prediction, and Prevention by Geospatial Analytics and Information Systems”, Eds. M.A. Brovelli and S. Li, ISPRS International Journal of Geo-Information.