

PERSONAL INFORMATION

Maria Antonia Brovelli



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Sex F | Date of birth 01/05/1961 | Nationality Italian
 Married, 2 daughters (1993, 1996)

WORK EXPERIENCE

- 2016 - Member of the Board of Faculties of the PhD in Data Science – University Roma “La Sapienza”
- 2011 - 2016 Vice Rector for the Como Campus - Politecnico di Milano
- 2016 Lecturer at the ESA EO Summer School 8
- 2016 Proposer of a new Master of Science in “Geoinformatics Engineering” at Politecnico di Milano
 The master is now at its third academic year and attracts students from all over the world.
- 2010 - Full Professor at the Politecnico di Milano (Department of Civil and Environmental Engineering - Dipartimento di Ingegneria Civile e Ambientale (DICA))

 I currently teach “Geographic Information System (GIS)” both at the Bachelor and Master (basic and advanced) and “Geospatial Web, Geo Big Data and Citizen Generated Geographic Information” at the Ph.D.
 In the past, I also taught: “Geodetic Measurements”, “Survey”, “Navigation”, “Remote Sensing”, “Digital Mapping” and “Internet GIS”.

 I have been tutor of more than 50 bachelor and master students, 17 Ph.D. students and I have been the mentor of 20 research fellows.
- 2006 - 2011 Lecturer at the ETH Zurich
 ETH- Zurich – Hönggerberg Stefano- Franscini-Platz 5 - 8049 Zürich, Switzerland
 I taught GIS3 at the Master of Science in Geomatics.
- 1998 - 2010 Associate Professor at the Politecnico di Milano (Department of Hydraulic, Environmental and Surveying Engineering – Dipartimento di Ingegneria Idraulica, delle Infrastrutture, Ambientale e del Rilevamento (DIIAR))
 Politecnico di Milano: Piazza Leonardo Da Vinci, 32 – 20133 Milano, Italy
- 1997 – 2011 Head of GeoLab – Politecnico di Milano
- 1994 - 1998 Assistant Professor at the Politecnico di Milano ((Department of Hydraulic, Environmental and Surveying Engineering – Dipartimento di Ingegneria Idraulica, delle Infrastrutture, Ambientale e del Rilevamento (DIIAR))
 Politecnico di Milano: Piazza Leonardo Da Vinci, 32 – 20133 Milano, Italy

- 1992 - 1994 **Researcher with the Istituto Nazionale di Geofisica e Vulcanologia (National Institute of Geophysics and Volcanology – IGeS (International Geoid Service))**
Istituto Nazionale di Geofisica e Vulcanologia - Via di Vigna Murata 605 - 00143 Roma, Italy
- 1992 **Temporary teacher of Physics at the State Vocational Institute for Industry and small Business “L. Settembrini”**
Physics at the State Vocational Institute for Industry and small Business “L. Settembrini”: via Grazia Deledda, 11 – Milano, Italy
- 1992 **Consultancy “Integral Problem of the Altimetry-Gravimetry in the Mediterranean Sea: Data Pre-processing” – Politecnico di Milano**
Politecnico di Milano: Piazza Leonardo Da Vinci, 32 – 20133 Milano, Italy
[Business or sector](#) University
- 1991 **Consultancy “Software for the Solution of the Altimetry-Gravimetry Problem” – Politecnico di Milano**
Politecnico di Milano: Piazza Leonardo Da Vinci, 32 – 20133 Milano, Italy
[Business or sector](#) University
- 1988 **Consultancy “Adaptation of the CALGE Software to a Rigorous Local Cartesian Field” – Politecnico di Milano**
Politecnico di Milano: Piazza Leonardo Da Vinci, 32 – 20133 Milano, Italy
[Business or sector](#) University
- 1987 **Consultancy “Atmospheric Pollution and Acid Rain” – Università degli Studi di Milano – Institute of Applied General Physic**
Università degli Studi di Milano – Institute of Applied General Physic – 20133 Milan, Italy
[Business or sector](#) University
- 1986 **Consultancy “Database of the Quality of Groundwater of the Milan Province” – Provincia di Milano – Ecology Department**
Provincia di Milano – Ecology Department
[Business or sector](#) Public Administration
- 1986 - 1988 **Consultancy “Air Quality Information Monitoring System” – Philips I&E Monza (Milano)**
Philips I&E Monza (Milano)
[Business or sector](#) Private
- 1983 **Temporary teacher of Mathematics at the State Vocational Institute for Industry and Small Business of Cusano Milanino (MI)**
State Vocational Institute for Industry and Small Business of Cusano Milanino (MI)
[Business or sector](#) Instruction

(last 10 years)

- 2019 Coordinator for Politecnico di Milano of the Copernicus Academy Network
- 2019 - 2020 Editor of the 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.
- 2019 Chair of FOSS4G 2019 Academic Track
- 2019 Editor of the Special Issue ""Open Source Geospatial Science, Software and Education", Eds. A. Mobasher, H. Mitsova, M. Neteler, A. Singleton, H. Ledoux and M.A. Brovelli, Transaction in GIS.
- 2019 – Member of the Editorial Board of the ISPRS International Journal of Geo-Information (<http://www.mdpi.com/journal/ijgi>)
- 2018 – Member of ACEO (ESA)
- 2018 Chair of FOSS4G 2018 Academic Track. Editor of the Proceedings "FOSS4G 2019 – Academic Track", Eds. M.A. Brovelli and A.H. Namangaya, ISPRS Archives, Volume XLII-4/W8, 2018, pp.1-241
- 2018 Editor of the 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.
- 2018-2019 Member of the Scientific Committee of the ESA "Phi Week", Chair and Keynote Speaker (2018)
- 2017 – Deputy Chair of the "UN-GGIM Academic Network"
- 2017 – Chair of the OSGeo UN Committee
- 2017 Editor of the 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.
- 2017 Chair of the FOSS4G Europe Academic Track. Editor of the 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
- 2016 – Chair of the WG 2 "Capacity Building" of the "UN Open GIS" Initiative
- 2016 – Chair of WG IV/4 "Collaborative Crowdsourced Cloud Mapping (C³M)" of ISPRS (<http://www2.isprs.org/commissions/comm4/wg4.html>)
- 2016 - CNR (Italian National Research Council) Associate
- 2016 - Member of the Editorial Board of SPATIAL INFORMATION RESEARCH
- 2016 Proceedings Editor "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.
- 2016 Proceeding Editor "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.
- 2016 – 2020 Member of the COST ACTION CA15212 "Citizen Science to promote creativity, scientific literacy, and innovation throughout Europe" (<https://www.cs-eu.net/>)
- 2016-2018 Member of the Board of Directors of OSGeo
- 2015 Chair of FOSS4G EU (Free and Open Source For Geospatial) in Como
- 2015 Proceedings Editor "Workshop WebMGS 2015", B. Veenendaal, M. A. Brovelli, and L. Wu, ISPRS Archives, Volume XL-4/W7, 2015, pp.1-45

- 2015-2017 Chair of GeoForAll Europe
- 2015-2017 Member of the Scientific Committee and Chair of the ESA “EO Open Science” Conference
- 2015 - 2019 Member of the COST Action TD1403 | Big Data Era in Sky and Earth Observation (BIG-SKY-EARTH)
- 2015 - Member of the Advisory Board of GeoForAll (<http://www.geoforall.org/>)
- 2015 - 2017 Member of ICT COST Action TD1202 Mapping and the citizen sensor (http://www.cost.eu/domains_actions/ict/Actions/TD1202)
- 2013 - 2016 Co-organizer of the NASA World Wind Europa Challenge
- 2014-2016 Editor of Special Issue on “Mobile Mapping for Disaster Relief”, Eds. D. Alvarez, P. Boccardo, M.A. Brovelli, M. Madden, PE&RS, October 2013, pp. 901-973.
- 2013 Editor of “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
- 2013 Co-organizer of the LatinOSGIS - First Latin American Congress of Free and Open Source GIS – Guayaquil –Ecuador.
- 2012 - 2016 Co-chair of WG IV/5 “Web and Cloud Based Geospatial Services and Applications” of ISPRS
- 2012 – 2016 Member of the Board of the Italian Photogrammetric Society (SIFET)
- 2012 - 2016 Member of the COST Action IC1203 COST Action European Network Exploring Research into Geospatial Information Crowdsourcing: software and methodologies for harnessing geographic information from the crowd (ENERGIC) (http://www.cost.eu/domains_actions/ict/Actions/IC1203)
- 2012 - 2016 Member of the COST Action TD1202 | Mapping and the citizen sensor
- 2010 - OSGEO charter member (www.osgeo.org)
- 2010 Editor of the Proceedings of “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.
- 2008 - 2012 Co-chair of WG IV/5 “Distributed and Web-Based Geoinformation Services and Applications” of ISPRS
- 2010 - Associate Editor of “Applied Geomatics” (<https://link.springer.com/journal/12518>)
- 2010 - 2012 Member of the Scientific Committee of the Italian Photogrammetric Society (SIFET)

EDUCATION AND TRAINING

- 1991 **Ph.D. in Geodesy and Surveying Engineering – Interuniversity Consortium Milan – Turin - Pavia**
 Thesis title: “Geoid and Marine Topographic Surface Estimation by Means of Radar Altimetric Measurements”
 Politecnico di Milano- Supervisor Prof. Fernando Sansò
 ▪ Fields of interest during doctoral studies: Geodesy, Radar-Altimetry, Gradiometry, Statistics
- 1991 (1 month) **Danish Research Academy Fellowship**

Development (in collaboration with Dr. Per Knudsen) of software for the elaboration of GEOSAT ERM (Exact Repeat Mission) observations

- Danish Cartographic Institute

From 1988 to 1991

Doctoral Grant

MURST (Ministry of University and Scientific and Technological Research)

1986

Degree in Physics at Università Statale di Milano

Thesis title: “Analysis of Rain Acidity in the Area of Milan in Relation to Environmental and Meteorological Parameters in the Period 1984-1986” –Achieved Grade: 110/110 with honours

Università Statale di Milano

1980

High school diploma

Classical studies orientation – Final grade: 60/60

PERSONAL SKILLS

Mother tongue

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C 1/2	C 1/2	C 1/2	C 1/2	C 1/2
French	B 1/2	B 1/2	A 1/2	A 1/2	A 1/2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

I was the Vice-Rector for Como Campus of the Politecnico di Milano.
I have been Responsible for Italian, European and International research projects.

In 2016, I was nominated to represent Italy in the international GEO team on Data Validation of Global Land Cover Datasets (within GEO SB-02-02: Global Land Cover and User Engagement) and in 2018-2019 I was appointed as a Member of the Italian Delegation at the United Nations GGIM Forum.

In 2018 I was nominated as member of ESAACEO (Advisory Committee for Earth Observation).

I am the chair of ISPRS WG IV/4 “Collaborative crowdsourced cloud mapping (C3M)”
I am the chair of the OSGeo “UN Committee” and of the “Capacity Building WG” of the UN Open GIS Initiative.

I am the Deputy-Chair of the UN-GGIM Academic Network.

I am in the Editorial Board of Applied Geomatics Journal (Springer), of the ISPRS International Journal of Geo-Information (MDPI) and of Spatial Information Research (Springer)

I was one of the Directors of OSGeo (Open Source Geospatial Foundation).

I have been chair of sessions and conferences and member of scientific committee of a great number of conferences.

Job-related skills Research areas: my research interests have been various, starting from geodesy, radar-altimetry and moving later to GIS, webGIS, Citizen Science and Global Land Cover Inter-comparison and Validation. I am participating and leading research on these topics within the frameworks of both national and international projects and scientific networks. One of my main interest is in Open Source GIS, where I'm playing a worldwide leading role.

Computer skills Advanced user of geospatial desktop, web and mobile applications. User of statistical libraries. Office and Open Office user.

Driving licence B

ADDITIONAL INFORMATION

Participation to/leading of research projects (last 10 years)

- 2019-2020 INTERREG V-A project IT-CH 2014-2020 – “GIOCOOnDA” - 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.
- 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 BIG DATA) – Project leader.
- 2018 - 2019 Cariplo Foundation “Mychonos” – Participant.
- 2018 ISPRS Capacity Building Initiative: “Capacity Building for High-Resolution Land Cover Inter-comparison and Validation” - Project Leader.
- 2018 – 2021 ESA “High Resolution Land Cover CCI +”. Leader of the Politecnico di Milano Unit. (Subcontractor)
- 2017- 2020 Erasmus + “Geodesy and Geoinformatics for Sustainable Development in Jordan” (GEO4D) – Participant
- 2017 – Cariplo Foundation “Brezza” - Leader of the Politecnico di Milano Unit.
- 2016 - 2018 Erasmus + giCASES (Creating a University-Enterprise Alliance for a Spatially Enabled Society) - Leader of the Politecnico di Milan Unit.
- 2016-2017 GEO team on Data Validation of Global Land Cover Datasets (within GEO SB-02-02: Global Land Cover and User Engagement).
- 2013 - 2015 INTERREG project IT-CH 2007-2013. Project: “I CAMMINI DELLA REGINA”, ID 33829732, Misura 3.1, P.O. Cooperazione Transfrontaliera - Project leader.
- 2011 - 2013 Green Move, Sustainable Mobility Project of the Politecnico di Milano for Regione Lombardia – Leader of the Geomatics area.
- 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.
- 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.

Awards

- Sol Katz Award – OSGeo (2015)
ISPRS President's Honorary Citation (2020)

Recent publications
(last 10 years)

Coetzee, S.; Ivánová, I.; Mitasova, H.; Brovelli, M.A. (2020) Open Geospatial Software and Data: A Review of the Current State and A Perspective into the Future. ISPRS Int. J. Geo-Inf. 9, 90

Brovelli M.A., Ponti M., Schade S., Solís P. (2020) Citizen Science in Support of Digital Earth. In: Guo H., Goodchild M., Annoni A. (eds) Manual of Digital Earth. Springer, Singapore, https://doi.org/10.1007/978-981-32-9915-3_18, Print ISBN 978-981-32-9914-6

Minghini, M., Mobasher, A., Rautenbach, V., Brovelli M.A. (2020) Geospatial openness: from software to standards & data. Open geospatial data, softw. stand. 5, 1. <https://doi.org/10.1186/s40965-020-0074-y>

Jovanovic, S., Jovanovic D., Bratic, G., Brovelli M.A. (2019). ANALYSIS OF FREE ROAD DATA IN TANZANIA, UGANDA AND KENYA USING FREE AND OPEN SOURCE SOFTWARE. INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE , vol. XLII-2/W13, p. 1567-1572, ISSN: 2194-9034, doi: 10.5194/isprs-archives-XLII-2-W13-1567-2019

D., Bratic G., Wu H., Brovelli M. A. (2019). Extending accuracy assessment procedures of global coverage land cover maps through spatial association analysis. INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE , vol. 42, p. 1601-1607, ISSN: 1682-1750, doi: 10.5194/isprs-archives-XLII-2-W13-1601-2019

Kilsedar C. E., Fissore F., Pirotti F., Brovelli M. A. (2019). Extraction and visualization of 3D building models in urban areas for flood simulation. THE INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE , vol. XLII-2/W11, p. 669-673, ISSN: 1682-1777, doi: 10.5194/isprs-archives-XLII-2-W11-669-2019

Kilsedar, Candan E, Bratic, Gorica, Molinari, Monia E, Minghini, Marco, Brovelli, Maria A (2019). Open Educational Resources for Validation of Global High-Resolution Land Cover Maps. PEERJ PREPRINTS, vol. 1, p. 1-6, ISSN: 2167-9843, doi: 10.7287/peerj.preprints.27214v2

Oxoli, D., Kang, H. -K., Brovelli, M. A. (2018). A SEMI-AUTOMATIC PROCEDURE FOR A DEMOGRAPHIC ANALYSIS OF THE FOSS4G DEVELOPERS' COMMUNITY. INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE , vol. XLII-4/W8, p. 171-174, ISSN: 2194-9034, doi: 10.5194/isprs-archives-XLII-4-W8-171-2018

Brovelli, Maria Antonia, Celino, Irene, Fiano, Andrea, Molinari, Monia Elisa, Venkatachalam, Vijaycharan (2018). A crowdsourcing-based game for land cover validation. APPLIED GEOMATICS, vol. 10, p. 1-11, ISSN: 1866-9298, doi: 10.1007/s12518-017-0201-3

Bratic, G., Brovelli, M. A., Molinari, M. E. (2018). A free and open source tool to assess the accuracy of land cover maps: Implementation and application to Lombardy Region (Italy). INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE , vol. 42, p. 87-92, ISSN: 1682-1750, doi: 10.5194/isprs-archives-XLII-3-87-2018

Brovelli, Maria Antonia, Zamoni, Giorgio (2018). A new method for the assessment of spatial accuracy and completeness of OpenStreetMap building footprints. ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol. 7, p. 1-25, ISSN: 2220-9964, doi: 10.3390/ijgi7080289

Monti-Guarnieri, Andrea, Virgilio, Brovelli, Maria Antonia, Manzoni, Marco, Mariotti d'Alessandro, Mauro, Molinari, Monia Elisa, Oxoli, Daniele (2018). Coherent Change Detection for Multipass SAR. IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol. 56, p. 6811-6822, ISSN: 0196-2892, doi: 10.1109/TGRS.2018.2843560

Oxoli, D., Boccardo, P., Brovelli, M. A., Molinari, M. E., Monti Guarnieri, A. (2018). Coherent Change Detection for repeated-pass interferometric SAR images: An application to earthquake damage assessment on buildings. INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE , vol. 42, p. 383-388, ISSN: 1682-1750, doi: 10.5194/isprs-archives-XLII-3-W4-383-2018

Oxoli, Daniele, Molinari, Monia Elisa, Brovelli, Maria Antonia (2018). Hotspot analysis, an open source

GIS tool for exploratory spatial data analysis: Application to the study of soil consumption in Italy. *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, vol. 46, p. 82-87, ISSN: 2035-8008, doi: 10.3301/ROL.2018.56

Oxoli, Daniele, RONCHETTI, GIULIA, Minghini, Marco, Molinari, Monia, LOTFIAN, MARYAM, Sona, Giovanna, Brovelli, Maria (2018). Measuring Urban Land Cover Influence on Air Temperature through Multiple Geo-Data—The Case of Milan, Italy. *ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION*, vol. 7, p. 1-20, ISSN: 2220-9964, doi: 10.3390/ijgi7110421

ZURBARAN NUCCI, MAYRAALEJANDRA, P. Wightman, M. A. Brovelli, D. Oxoli, M. Iliffe, M. Jimeno, A. Salazar (2018). N-Rand-K: Minimizing the impact of location obfuscation in spatial analysis. *TRANSACTIONS IN GIS*, vol. 22, p. 1257-1274, ISSN: 1361-1682, doi: 10.1111/tgis.12462

Molinari, M. E., Oxoli, D., Kilsedar, C. E., Brovelli, M. A. (2018). USER GEOLOCATED CONTENT ANALYSIS FOR URBAN STUDIES: INVESTIGATING MOBILITY PERCEPTION AND HUBS USING TWITTER. *INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE*, vol. 42, p. 439-442, ISSN: 2194-9034, doi: 10.5194/isprs-archives-XLII-4-439-2018

Bratic, G., Molinari, M. E., Brovelli, M. A. (2018). Validation of the global high-resolution GlobeLand30 land cover map in Europe using land cover field survey database - LUCAS. *INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE*, vol. 42, p. 51-59, ISSN: 1682-1750, doi: 10.5194/isprs-archives-XLII-4-51-2018

Brovelli, Maria Antonia, Delipetrev, Blagoj, Zamboni, Giorgio (2018). Free and open source tools for volunteer geographic information and geo-crowdsourcing. In: (a cura di): Naveenchandra N. Srivastava, *Emerging Trends in Open Source Geographic Information Systems*. p. 1-32, IGI Global, ISBN: 9781522550402, doi: 10.4018/978-1-5225-5039-6.ch001

M. A. Brovelli, P. Mooney, L. Biagi, M. Brambilla, I. Celino, E. Ciceri, N. Dorigatti, H. Huang, M. Minghini, V. C. Venkatachalam (2018). Mapping parties at FOSS4G Europe: fun, outcomes and lessons learnt. In: (a cura di): G. Bordogna P. Carrara, *Mobile Information Systems Leveraging Volunteered Geographic Information for Earth Observation*. *EARTH SYSTEMS DATA AND MODELS*, p. 3-34, Cham:Springer, ISBN: 9783319708775, ISSN: 2364-5849, doi: 10.1007/978-3-319-70878-2_1

M. A. Brovelli, M. Minghini, G. Zamboni (2018). New Generation Platforms for Exploration of Crowdsourced Geo-Data. In: P-P. Mathieu C. Aubrecht, , *Earth Observation Open Science and Innovation*. *ISSI SCIENTIFIC REPORT SERIES*, p. 219-243, Cham:Springer, ISBN: 9783319656328, doi: 10.1007/978-3-319-65633-5

Namangaya, A. H., Brovelli, M. A. (2018). Academic track of foss4g 2018 leaving no-one behind. In: *International Archives of Photogrammetry, Remote Sensing and Spatial Information Science - ISPRS Archives*. *INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE*, vol. 42, p. 1-2, International society for photogrammetry and remote sensing, ISSN: 1682-1750, Dar Es Salaam, Tanzania, 2018, doi: 10.5194/isprs-archives-XLII-4-W8-1-2018

M. Minghini, M. A. Brovelli, F. Frassinelli (2018). An open source approach for the intrinsic assessment of the temporal accuracy, up-to-dateness and lineage of OpenStreetMap. In: M. A. Brovelli A. H. Namangaya, *FOSS4G 2018 – Academic Track*. *INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE*, vol. XLII-4/W8, p. 147-154, Göttingen:International Society for Photogrammetry and Remote Sensing, ISSN: 2194-9034, Dar es Salaam, Tanzania, 29/8/2018 - 31/8/2018, doi: 10.5194/isprs-archives-XLII-4-W8-147-2018

M. A. Brovelli, M. Minghini, M. E. Molinari, H. Wu, X. Zheng, J. Chen (2018). Capacity building for high-resolution land cover intercomparison and validation: what is available and what is needed. In: M. A. Brovelli A. H. Namangaya, *FOSS4G 2018 – Academic Track*. *INTERNATIONAL ARCHIVES OF PHOTOGRAMMETRY, REMOTE SENSING AND SPATIAL INFORMATION SCIENCE*, vol. XLII-4/W8, p. 15-22, Göttingen:International Society for Photogrammetry and Remote Sensing, ISSN: 2194-9034, Dar es Salaam, Tanzania, 29/8/2018 - 31/8/2018, doi: 10.5194/isprs-archives-XLII-4-W8-15-2018

Monti-Guamieri, Andrea, Brovelli, Maria Antonia, d'Alessandro, Mauro Mariotti, Manzoni, Marco, Molinari, Monia Elisa, Oxoli, Daniele (2018). Coherence Change Detection For Sentinel-1 Sar: Methods And Applications. In: IGARSS 2018 - 2018 IEEE International Geoscience and Remote Sensing Symposium. IEEE INTERNATIONAL GEOSCIENCE AND REMOTE SENSING SYMPOSIUM PROCEEDINGS, p. 64-67, ISBN: 978-1-5386-7150-4, ISSN: 2153-6996, Valencia, JUL 22-27, 2018, doi: 10.1109/IGARSS.2018.8518453

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