

PERSONAL INFORMATION

Enrico Corrado Borgogno Mondino



 Vicolo Amoletti, 14 – 10095 MAZZE' (TO) - ITALY

 Replace with telephone number  Replace with mobile number

 enrico.borgogno@unito.it

Sex Male | Date of birth 26/10/1971 | Nationality Italian

WORK EXPERIENCE

March 2023 - Present

FULL PROFESSOR - CEAR-04/A “GEOMATICS”

DISAFA – Dept. of Agriculture, Forest and Food Sciences (Agriforfood) / University of Torino

Largo Braccini, 2 – 10095 Grugliasco (To) - Italy

▪ **research activities:**

Satellite/aerial/UAV remote sensing, GIS, digital photogrammetry and survey (LiDAR included) for environmental applications with special focus on (precision) forestry and (precision) agriculture.

▪ **teaching activities** as lecturer in many academic courses dealing with Geomatics

▪ **member** of committees of different scientific societies

Business or sector

University : research and teaching

November 2015 – February 2023

ASSOCIATE PROFESSOR - SSD ICAR/06 “TOPOGRAFIA E CARTOGRAFIA” – 08/A4 “GEOMATICA”

DISAFA – Dept. of Agriculture, Forest and Food Sciences (Agriforfood) / University of Torino

Largo Braccini, 2 – 10095 Grugliasco (To) - Italy

▪ **research activities:**

Satellite/aerial/UAV remote sensing, GIS, digital photogrammetry and survey (LiDAR included) for environmental applications with special focus on (precision) forestry and (precision) agriculture.

▪ **teaching activities** as lecturer in many academic courses dealing with Geomatics

▪ **member** of committees of different scientific societies

Business or sector

University : research and teaching

October 2006 - October 2015

ASSISTANT PROFESSOR - SSD ICAR/06 “TOPOGRAFIA E CARTOGRAFIA” – 08/A4 “GEOMATICA”

DISAFA – Dept. of Agriculture, Forest and Food Sciences (Agrifood) / University of Torino
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▪ **research activities:**

Satellite/aerial/UAV remote sensing, GIS, digital photogrammetry and survey (LiDAR included) for environmental applications with special focus on (precision) forestry and (precision) agriculture.

▪ **teaching activities** as lecturer in many academic courses dealing with geomatics

▪ **member** of committees of different scientific societies

Business or sector

University: research and teaching

July 2004 - September 2006

POST-DOC RESEARCH POSITION

DITAG – Department of Engineering for Territory, Environment and Geo-Technologies
Politecnico of Torino, C.So Duca Degli Abruzzi, 24 – 10129 Torino - Italy

▪ Remote Sensing, Digital Photogrammetry, Geographical Information Systems (GIS), Survey and Cartography.

Business or sector

University research

July 2002 – June 2004

POST-DOC RESEARCH POSITION

CNR-IREA (Institute for Electromagnetic Sensing of Environment) - Italian National Research Council
Via Bassini, 15 – 20133 Milano - Italy

▪ Scientific responsible in several research projects dealing with remote sensing and GIS, included some related to the Italian Space Agency (ASI).

Business or sector

NATIONAL RESEARCH INSTITUTE : Research

July 1998 - August 2002

RESEARCHER

POLO NAZIONALE BIOELETTRONICA - PARCO SCIENTIFICO E TECNOLOGICO DELL'ELBA
Via delle testuggini - 00134 ROMA

▪ Developer and tester of procedures based on neural network algorithms aimed at supervised and unsupervised classification of satellite remotely sensed images

Business or sector

RESEARCH CONSORTIUM – TECHNOLOGICAL AND SCIENTIFIC PARK: research

EDUCATION AND TRAINING

2001-2004

PHD IN “GEODESY AND GEOMATICS”

DIIAR - Politecnico of Milano,
 Piazza L. Da Vinci, 32 - 20133 Milano - Italy

- High resolution remote sensing
- satellite images geometric correction/orthoprojection
- multispectral image classification
- artificial neural networks (MLP and NEURAL GAS)

1990-1996 **MASTER DEGREE IN ENVIRONMENTAL ENGINEERING (5 YEARS)**

Politecnico of Torino, C.So Duca Degli Abruzzi, 24 – 10129 Torino - Italy

- Environmental applications of engineering: geomatics, territory/landscape planning, waste management, pollutants treatments and industrial chemistry, hydrology, hydraulics, geology.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	C1
	Replace with name of language certificate. Enter level if known.				
French	A1	A1	A2	A1	A2
	Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through his experience as ACADEMIC professor and lecturer.

Organisational / managerial skills ▪ leadership in research groups (currently responsible for a team of 4 people)

Job-related skills

- Phenology modelling of vegetation through satellite derived spectral indices time series (NDVI,EVI, WDRVI, etc.) with special concerns about MODIS, Landsat 8, Sentinel 2 and Proba-V datasets.
- Geometric, Spectral and Radiometric processing of satellite, aerial and UAV datasets
- Multispectral/hyperspectral image classification (included artificial neural networks algorithms)
- Data simulation
- Data fusion / Pan Sharpening / Data intercalibration
- Spectral and Geometric accuracy assessment of remotely sensed imagery
- Satellite SAR image processing for forest and agriculture devoted applications

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

N/A

- good knowledge of office suite (word processor, spread sheet, presentation software)
- good knowledge of photo editing software
- good knowledge in programming (QB45, MatLAB, IDL)
- advanced skills in scientific software for remote Sensing, GIS and Digital Photogrammetry with special focus on: ENVI, SAGA GIS, QGIS, ARCMAP, Agisoft Photoscan, LAStools.

Driving licence

Italian A/B

ADDITIONAL INFORMATION

Publications

- Farbo, A., Sarvia, F., De Petris, S., Basile, V., & Borgogno-Mondino, E. (2024). Forecasting corn NDVI through AI-based approaches using sentinel 2 image time series. *ISPRS Journal of Photogrammetry and Remote Sensing*, 211, 244-261.
- Farbo, A., Trombetta, N. G., de Palma, L., & Borgogno-Mondino, E. (2024). Estimation of Intercepted Solar Radiation and Stem Water Potential in a Table Grape Vineyard Covered by Plastic Film Using Sentinel-2 Data: A Comparison of OLS-, MLR-, and ML-Based Methods. *Plants*, 13(9), 1203.
- Suwanlee, S. R., Pinasu, D., Som-ard, J., Borgogno-Mondino, E., & Sarvia, F. (2024). Estimating Sugarcane Aboveground Biomass and Carbon Stock Using the Combined Time Series of Sentinel Data with Machine Learning Algorithms. *Remote Sensing*, 16(5), 750.
- Bumbaca, S., & Borgogno-Mondino, E. (2024). Supporting Screening of New Plant Protection Products through a Multispectral Photogrammetric Approach Integrated with AI. *Agronomy*, 14(2), 306.
- Orusa, T., Viani, A., & Borgogno-Mondino, E. (2024). Earth Observation Data and Geospatial Deep Learning AI to Assign Contributions to European Municipalities Sen4MUN: An Empirical Application in Aosta Valley (NW Italy). *Land*, 13(1), 80.
- Sarvia, F., De Petris, S., & Borgogno-Mondino, E. (2023). Detection and counting of meadow cuts by copernicus sentinel-2 imagery in the framework of the common agricultural policy (CAP). *European Journal of Remote Sensing*, 56(1), 2129094.
- Sarvia, F., De Petris, S., & Borgogno-Mondino, E. (2023). Mapping melliferous potential in productive honey areas through spatial tools: Towards a rationalization of beekeeping. *Ecological Informatics*, 78, 102362.
- De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2023). Uncertainty assessment of Sentinel-2-retrieved vegetation spectral indices over Europe. *European Journal of Remote Sensing*, 2267169.
- Squillacioti, G., De Petris, S., Bellisario, V., Mondino, E. C. B., & Bono, R. (2023). Urban environment and green spaces as factors influencing sedentary behaviour in school-aged children. *Urban Forestry & Urban Greening*, 88, 128081.
- Suwanlee, S. R., Keawsomsee, S., Pengjunsang, M., Homtong, N., Prakobya, A., Borgogno-Mondino, E., ... & Som-ard, J. (2023). Monitoring Agricultural Land and Land Cover Change from 2001–2021 of the Chi River Basin, Thailand Using Multi-Temporal Landsat Data Based on Google Earth Engine. *Remote Sensing*, 15(17), 4339.
- De Luca, G., Praticò, S., Messina, G., Borgogno-Mondino, E., & Modica, G. (2023, June). UAV LiDAR Survey for Forest Structure Metrics Estimation in Planning Scenario. A Case Study on a Laricio Pine Forest in the Sila Mountains (Southern Italy). In *International Conference on Computational Science and Its Applications* (pp. 339-349). Cham: Springer Nature Switzerland.
- Fissore, V., Bovio, L., Perotti, L., Boccoardo, P., & Borgogno-Mondino, E. (2023). Towards a Digital Twin Prototype of Alpine Glaciers: Proposal for a Possible Theoretical Framework. *Remote sensing*, 15(11), 2844.
- Orusa, T., Viani, A., Moyo, B., Cammareri, D., & Borgogno-Mondino, E. (2023). Risk Assessment of Rising Temperatures Using Landsat 4–9 LST Time Series and Meta© Population Dataset: An Application in Aosta Valley, NW Italy. *Remote Sensing*, 15(9), 2348.
- Viani, A., Orusa, T., Borgogno-Mondino, E., & Orusa, R. (2023). Snow metrics as proxy to assess sarcoptic mange in wild boar: Preliminary results in Aosta Valley (Italy). *Life*, 13(4), 987.
- Ghilardi, F., Virano, A., Prandi, M., & Borgogno-Mondino, E. (2023). Zonation of a Viticultural Territorial Context in Piemonte (NW Italy) to Support Terroir Identification: The Role of Pedological, Topographical and Climatic Factors. *Land*, 12(3), 647.
- Orusa, T., Viani, A., Cammareri, D., & Borgogno Mondino, E. (2023). A Google Earth Engine Algorithm to Map Phenological Metrics in Mountain Areas Worldwide with Landsat Collection and Sentinel-2. *Geomatics*, 3(1), 221-238.
- Viani, A., Divari, S., Lovisolò, S., Zanet, S., Borgogno-Mondino, E., Orusa, R., & Bollo, E. (2023). Bartonella spp. distribution assessment in red foxes (*Vulpes vulpes*) coupling geospatially-based

techniques. In Atti SISVet (pp. 69-69). SISVet.

Orusa, T., Cammareri, D., & Borgogno Mondino, E. (2022). A Possible Land Cover EAGLE Approach to Overcome Remote Sensing Limitations in the Alps Based on Sentinel-1 and Sentinel-2: The Case of Aosta Valley (NW Italy). *Remote Sensing*, 15(1), 178.

Orusa, T., Cammareri, D., & Borgogno Mondino, E. (2022). A Scalable Earth Observation Service to Map Land Cover in Geomorphological Complex Areas beyond the Dynamic World: An Application in Aosta Valley (NW Italy). *Applied Sciences*, 13(1), 390.

Palazzi, F., Biddoccu, M., Borgogno Mondino, E. C., & Cavallo, E. (2022). Use of Remotely Sensed Data for the Evaluation of Inter-Row Cover Intensity in Vineyards. *Remote Sensing*, 15(1), 41.

De Petris, S., Momo, E. J., Sarvia, F., & Borgogno-Mondino, E. (2022). Multitemporal dual-pol Sentinel-1 data to support monitoring of forest post-fire dynamics. *Geocarto International*, 37(27), 15463-15484.

Boccardo, P., BORGOGNO MONIDNO, E., GIULIO TONOLO, F., & Perez, F. (2022). Mapping from high resolution satellite stereo images for natural hazard assesment. In *Remote sensing application for a sustainable future* (Vol. 36).

Borgogno-Mondino, E. (2022, October). Low Density ALS Data to Support Forest Management Plans: The Alta Val Di Susa Forestry Consortium (NW Italy) Case Study. In *Geomatics for Green and Digital Transition: 25th Italian Conference, ASITA 2022, Genova, Italy, June 20–24, 2022, Proceedings* (p. 263). Springer Nature.

Samuele, D.P., Federica, G., Filippo, S., Enrico, B.-M. (2022). A simplified method for water depth mapping over crops during flood based on Copernicus and DTM open data. *Agricultural Water Management*, 269,107642, DOI: 10.1016/j.agwat.2022.107642,

Carella, E., Orusa, T., Viani, A., Meloni, D., Borgogno-mondino, E., Orusa, R. (2022). An Integrated, Tentative Remote-Sensing Approach Based on NDVI Entropy to Model Canine Distemper Virus in Wildlife and to Prompt Science-Based Management Policies, *Animals*, 12 (8), 1049, DOI: 10.3390/ani12081049.

Sarvia, F., De Petris, S., Borgogno-Mondino, E. (2022). Mapping Ecological Focus Areas within the EU CAP Controls Framework by Copernicus Sentinel-2 Data, *Agronomy*, 12 (2), 406, DOI: 10.3390/agronomy12020406

De Petris, S., Cuzzo, G., Notarnicola, C., & Borgogno-Mondino, E. (2022, June). Forest Height Estimation Using Sentinel-1 Interferometry. A Phase Unwrapping-Free Method Based on Least Squares Adjustment. In *Italian Conference on Geomatics and Geospatial Technologies* (pp. 251-262). Cham: Springer International Publishing.

Borgogno-Mondino, E., & Fissore, V. (2022). Reading greenness in urban areas: Possible roles of phenological metrics from the Copernicus HR-VPP dataset. *Remote Sensing*, 14(18), 4517.

Borgogno-Mondino, E., Farbo, A., Novello, V., & Palma, L. D. (2022). A fast regression-based approach to map water status of pomegranate orchards with sentinel 2 data. *Horticulturae*, 8(9), 759.

Borgogno-Mondino, E., De Petris, S., Sarvia, F., Momo, E. J., Sussio, F., & Pari, P. (2022). Adoption of Digital Aerial Photogrammetry in Forest Planning: A Case Study of Canavese Forestry Consortium, NW Italy with Technical and Economic Issues. *Land*, 11(8), 1350.

Ghilardi, F., Petris, S. D., Farbo, A., Sarvia, F., & Borgogno-Mondino, E. (2022, July). Exploring stability of crops in agricultural landscape through gis tools and open data. In *International Conference on Computational Science and Its Applications* (pp. 327-339). Cham: Springer International Publishing.

De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2022). About Tree Height Measurement: Theoretical and Practical Issues for Uncertainty Quantification and Mapping. *Forests*, 13(7), 969.

Ilardi, E., Fissore, V., Berretti, R., Dotta, A., Boccardo, P., & Borgogno-Mondino, E. (2022, June). Low Density ALS Data to Support Forest Management Plans: The Alta Val Di Susa Forestry Consortium (NW Italy) Case Study. In *Italian Conference on Geomatics and Geospatial Technologies* (pp. 263-274). Cham: Springer International Publishing.

Drusi, B., Devecchi, M., De Petris, S., Bertetti, D., Anibaldi, M., Gaino, W., ... & Borgogno-Mondino, E. (2022, June). Potential Contributions of Geomatics to Garden Design, Landscape Planning and Plant Disease Management. In *Italian Conference on Geomatics and Geospatial Technologies* (pp.

- 289-303). Cham: Springer International Publishing.
- Farbo, A., Meloni, R., Blandino, M., Sarvia, F., Reyneri, A., & Borgogno-Mondino, E. (2022, June). Spectral Measures from Sentinel-2 Imagery vs Ground-Based Data from Rapidscan® Sensor: Performances on Winter Wheat. In Italian Conference on Geomatics and Geospatial Technologies (pp. 211-221). Cham: Springer International Publishing.
- Farbo, A., Sarvia, F., De Petris, S., & Borgogno-Mondino, E. (2022). Preliminary Concerns about Agronomic Interpretation of NDVI Time Series From Sentinel-2 Data: Phenology and Thermal Efficiency of Winter Wheat in Piemonte (NW Italy). *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 43, 863-870.
- Sarvia, F., De Petris, S., Ghilardi, F., Xausa, E., Cantamessa, G., & Borgogno-Mondino, E. (2022). The Importance of agronomic knowledge for crop detection by Sentinel-2 in the CAP controls framework: a possible rule-based classification approach. *Agronomy*, 12(5), 1228.
- De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2022). SENTINEL-1 Data Time Series to Support Forest Police in Harvestings Detection. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 3, 225-232.
- Meloni, R., Farbo, A., Reyneri, A., BORGOGNO-MONDINO, E., Colombatto, P., & Blandino, M. (2022). Maize water stress monitoring by Sentinel 2 spectral indices. In Proceedings of the 51th Conference of the Italian Society of Agronomy (pp. 185-186). Società Italiana di Agronomia.
- Mondino, E. B., Lessio, F., Bianchi, A., Ciampitti, M., Cavagna, B., & Alma, A. (2022). Modelling the spread of *Popillia japonica* Newman (Coleoptera: Scarabaeidae) from a recently infested area. *Entomol Gen*, 42(5), 713-21.
- Ghilardi, F., De Petris, S., Sarvia, F., Borgogno-Mondino, E. (2022). A Proposal for Crop Damage Assessment by Floods Based on an Integrated Approach Relying on Copernicus Sentinel Data and DTMs, *Communications in Computer and Information Science*, 1507 CCIS, pp. 43-54, DOI: 10.1007/978-3-030-94426-1_4.
- Borgogno-Mondino, E., Zamperlin, P. (2022). Preface of ASITA 2022 Proceedings, *Communications in Computer and Information Science*, 1507 CCIS, pp. v-vi.
- De Marinis, P., De Petris, S., Sarvia, F., Manfron, G., Momo, E.J., Orusa, T., Corvino, G., Sali, G., Borgogno, E.M. (2021). Supporting pro-poor reforms of agricultural systems in eastern DRC (Africa) with remotely sensed data: A possible contribution of spatial entropy to interpret land management practices, *Land*, 10 (12), 1368, DOI: 10.3390/land10121368.
- Borgogno-Mondino, E., Borgia, A., & Cigolini, C. (2021). Locating the Italian Radioactive Waste Repository: Issues and Perplexities Arisen from Open Data-Based Analyses about the TO-10 Site (NW Italy). *Land*, 10(9), 932, DOI: 10.3390/land10090932.
- Borgogno-Mondino, E., Novello, V., & de Palma, L. (2021). Testing the possibility of mapping vineyards covered with plastic sheets by Copernicus Sentinel 2 imagery. *International Symposium on Precision Management of Orchards and Vineyards 1314* (pp. 211-218), DOI: 10.17660/ActaHortic.2021.1314.27.
- De Petris, S., Squillacioti, G., Bono, R., & Borgogno-Mondino, E. (2021). Geomatics and epidemiology: Associating oxidative stress and greenness in urban areas. *Environmental Research*, 197, 110999, DOI: 10.1016/j.envres.2021.110999
- Sarvia, F., De Petris, S., & Borgogno-Mondino, E. (2021). Exploring Climate Change Effects on Vegetation Phenology by MOD13Q1 Data: The Piemonte Region Case Study in the Period 2001–2019. *Agronomy*, 11(3), 555, DOI: 10.3390/agronomy11030555.
- Orusa, T., & Borgogno Mondino, E. (2021). Exploring Short-Term Climate Change Effects on Rangelands and Broad-Leaved Forests by Free Satellite Data in Aosta Valley (Northwest Italy). *Climate*, 9(3), 47, DOI: 10.3390/cli9030047.
- De Petris, S., Sarvia, F., Gullino, M., Tarantino, E., & Borgogno-Mondino, E. (2021). Sentinel-1 Polarimetry to Map Apple Orchard Damage after a Storm. *Remote Sensing*, 13(5), 1030, DOI: 10.3390/rs13051030.
- Momo, E. J., De Petris, S., Sarvia, F., & Borgogno-Mondino, E. (2021). Addressing Management Practices of Private Forests by Remote Sensing and Open Data: a Tentative Procedure. *Remote Sensing Applications: Society and Environment*, 100563, DOI: 10.1016/j.rsase.2021.100563.

De Petris, S., Filippo, S., Borgogno-Mondino, E. (2021). Multi-temporal mapping of flood damage to crops using sentinel-1 imagery: a case study of the Sesia River. *Remote Sensing Letters* 12(5): 459-469, DOI: 10.1080/2150704X.2021.1890262.

Sarvia, Filippo, Xausa, Elena, Petris, Samuele De, Cantamessa, Gianluca, Borgogno-Mondino, Enrico (2021). A Possible Role of Copernicus Sentinel-2 Data to Support Common Agricultural Policy Controls in Agriculture. *AGRONOMY*, vol. 11, p. 1-19, ISSN: 2073-4395, DOI: 10.3390/agronomy11010110.

Alberto Cugnetto, Luciano Lajolo, Giovanni Vitaloni, Giuseppe Sarasso, Enrico Corrado Borgogno Mondino, Marco Nuti, Giusto Giovannetti, Giorgio Masoero (2021). Vineyard Clusters Monitored by Means of Litterbag-NIRS and Foliar-NIRS Spectroscopic Methods. *JOURNAL OF AGRONOMY RESEARCH*, vol. 3, p. 39-56, ISSN: 2639-3166

Alessandra Capolupo, Mirko Saponaro, Enrico Borgogno Mondino, Eufemia Tarantino (2020). Combining Interior Orientation Variables to Predict the Accuracy of Rpas-Sfm 3D Models. *REMOTE SENSING*, vol. 12, p. 1-31, ISSN: 2072-4292, DOI: 10.3390/rs12172674

De Petris Samuele, Berretti Roberta, Guiot Elisa, Giannetti Fabio, Motta Renzo, Borgogno Mondino Enrico (2020). Detection And Characterization of Forest Harvesting In Piedmont Through Sentinel-2 Imagery: A Methodological Proposal. *ANNALS OF SILVICULTURAL RESEARCH*, vol. 45, p. 92-98, ISSN: 2284-354X, DOI: 10.12899/asr-2018

Tommaso Orusa, Riccardo Orusa, Annalisa Viani, Emanuele Carella, Enrico Borgogno Mondino (2020). Geomatics and EO Data to Support Wildlife Diseases Assessment at Landscape Level: A Pilot Experience to Map Infectious Keratoconjunctivitis in Chamois and Phenological Trends in Aosta Valley (NW Italy). *REMOTE SENSING*, vol. 12(21), p. 1-22, ISSN: 2072-4292, DOI: 10.3390/rs12213542

Borgogno Mondino, Enrico, Fissore, Vanina, Falkowski, Michael J., Palik, Brian (2020). How far can we trust forestry estimates from low-density LiDAR acquisitions? The Cutoff Sioux experimental forest (MN, USA) case study. *INTERNATIONAL JOURNAL OF REMOTE SENSING*, vol. 41, p. 4549-4567, ISSN: 0143-1161, DOI: 10.1080/01431161.2020.1723173

Borgogno Mondino, Enrico, de Palma, Laura, Novello, Vittorino (2020). Investigating Sentinel 2 Multispectral Imagery Efficiency in Describing Spectral Response of Vineyards Covered with Plastic Sheets. *AGRONOMY*, vol. 10, p. 1-16, ISSN: 2073-4395, DOI: 10.3390/agronomy10121909

Sarvia, F., De Petris, S., Borgogno Mondino, E. (2020). Multi-scale remote sensing to support insurance policies in agriculture: from mid-term to instantaneous deductions. *GISCIENCE & REMOTE SENSING*, p. 1-15, ISSN: 1548-1603, DOI: 10.1080/15481603.2020.1798600

De Petris Samuele, Sarvia Filippo, Borgogno Mondino Enrico (2020). RPAS-based photogrammetry to support tree stability assessment: Longing for precision arboriculture. *URBAN FORESTRY & URBAN GREENING*, vol. 55, p. 1-12, ISSN: 1618-8667, DOI: 10.1016/j.ufug.2020.126862

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Borgogno-Mondino, E., Novello, V., Lessio, A., & de Palma, L. (2018). Describing the spatio-temporal variability of vines and soil by satellite-based spectral indices: A case study in Apulia (South Italy). *International journal of applied earth observation and geoinformation*, 68, 42-50, DOI: 10.1016/j.jag.2018.01.013.

Vacchiano, G., Berretti, R., Motta, R., & Mondino Borgogno, E. (2018). Assessing the availability of forest biomass for bioenergy by publicly available satellite imagery. *iForest-Biogeosciences and Forestry*, 11(4), pp. 459-468, DOI: 10.3832/ifor2655-011.

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Horticultural Science 1197, pp. 59-68, DOI: 10.17660/ActaHortic.2018.1197.8.

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Testa, S., Soudani, K., Boschetti, L., Borgogno Mondino, E., (2018), MODIS-derived EVI, NDVI and WDRVI time series to estimate phenological metrics in French deciduous forests, *International Journal of Applied Earth Observation and Geoinformation*, 64, pp. 132-144, DOI: 10.1016/j.jag.2017.08.006.

Khanjanzadeh, H., Mondino, E. C. B., & Morteza, E. (2017). Estimation of evapotranspiration for basilicata region with a pennman-monteith method. *JOURNAL OF EXPERIMENTAL BIOLOGY AND AGRICULTURAL SCIENCES*, 5(2), 183-187, DOI: 10.18006/2017.5(2).183.187.

Lessio, A., Fissore, V., & Borgogno-Mondino, E. (2017). Preliminary Tests and Results Concerning Integration of Sentinel-2 and Landsat-8 OLI for Crop Monitoring. *Journal of Imaging*, 3(4), 49, DOI: 10.3390/jimaging3040049.

Accastello, C., Brun, F., Borgogno-Mondino, E., (2017), A Spatial-Based Decision Support System for wood harvesting management in mountain areas, *Land Use Policy*, 67, pp. 277-287, DOI: 10.1016/j.landusepol.2017.05.006.

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characterization of large slope instabilities in Aosta Valley (Italian NW-Alps), Proceedings of SPIE - The International Society for Optical Engineering, 5574, art. no. 52, pp. 331-340, DOI: 10.1117/12.565509.

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Competitive research projects

1. (2007-2008) National Research project PRIN2007(2007HBTS85_00108): "Effetti sul rischio di piena della variabilità spaziale dei processi climatici ed idrologici".
2. (2020-2024) PSR FEASR 2014-2020, Reg. Piemonte, Misura 16.1.1, SISAV – Strumenti Integrati per la Sostenibilità Ambientale del Vigneto.
3. (2020-2024) PSR FEASR 2014-2020, Reg. Piemonte, Misura 16.1.1, TELECER - Applicazione del telerilevamento per il miglioramento produttivo e qualitativo dei cereali per le filiere avanzate.
4. (2020-2023) Progetto di Ricerca Corrente Ministero della Salute codice IZS PLV 13/20 - "Fauna selvatica e non convenzionale: malattie virali emergenti in un'ottica di salute globale".
5. (2020-2023) PSR FEASR 2014-2020, Reg. Puglia, Misura 16.2. COSMEL – Competitività e sostenibilità della coltura del melograno in Puglia. Researcher.
6. (2020-2023) PSR FEASR 2014-2020, Reg. Puglia, Misura 16.2. UVAPULIA - Uve apirene pugliesi dal campo alla tavola: innovazione, nutrizione, sostenibilità". Researcher.
7. (2020-present) H2020 Knowledge and Innovation Communities (EIT-KIC) - Pro4bake: Optimization of bakery processes by a computational tool together with consumer feedback to minimize ecological footprint and food waste. Researcher.
8. (2020-present) Research Project - Metodologie e applicazioni per l'aggiornamento delle mappe di danno alluvionale relativamente alla revisione del PGRA. Research Unit Responsible.
9. (2021-present) CRT 2016 - Avversità del MIRtillo in Piemonte: dove e come combAtteRIE (MIRARE). Researcher.
10. (2022-present) H2020 NBSoil – Nature Based Solutions for Soil Management(<https://nbsoil.eu/>)
11. (2023 – present) PRIN 2022 PNRR – GEO4MODOC – Earth Observation for Drought Monitoring on Crops
12. (2023 – present) H2020 MountResilience (<https://mountresilience.eu>)

Other projects and contracts

Research contract titled "Protocollo di intesa tra le università nel bacino idrografico del Po e l'Autorità di Bacino Distrettuale del fiume Po"

Committing company/institution: Autorità di Bacino Distrettuale del fiume Po

Year: 2020/2022

Amount: 21000 €

Description: Support for the development of an operational GIS-based tool for mapping flood damages within the Po river basin with special concern about the agricultural component of territory.

Research contract for the development of a pilot service in the "Progetto Pilota - Monitoraggio – Reg. UE 746/2018".

Committing company/institution: Agenzia Regionale Piemonte in Agricoltura (ARPEA)

Year: 2020/2021 (18 months)

Amount: 24,000 €

Description: Designing and implementation of a system prototype for agricultural controls from Institutional subjects with reference to the EU Common Agricultural Policy (CAP) based on COPERNICUS Sentinel 1/2 datasets.

Research contract for the development of a pilot service in the "Progetto Pilota - Monitoraggio – Reg. UE 746/2018".

Committing company/institution: Agenzia Regionale Piemonte in Agricoltura (ARPEA)

Year: 2019/2020 (12 months)

Amount: 16,000 €

Description: Designing and implementation of a system prototype for agricultural controls from Institutional subjects with reference to the EU Common Agricultural Policy (CAP) based on COPERNICUS Sentinel 1/2 datasets.

Research contract for the characterization of land use in the Diocese of Goma (Democratic Republic of the

Congo) by satellite remote sensing

Committing company/institution: University of Milano – Dept. of Agricultural and Environmental Sciences within the “ART - Securisation de terres en Diocèse de Goma, RDC - Remote Sensing for land use classification” project from CARITAS.

Year: 2018/2019 (6 months)

Amount: 10,000 €

Description: Production of land cover maps in the Goma area in Congo, with special focus on agricultural devoted areas by satellite remote sensing.

Research contract for the development of an operational system based on remotely sensed data aimed at mapping soil and crop water content in Sardinia (Italy) - “Studio dei sistemi di elaborazione di dati da satellite per il riconoscimento dello stato di umidità dei suoli e delle piante in un settore della Sardegna”

Committing company/institution: Università degli Studi di Cagliari

Amount: 10,000 €

Year: 2017 (12 months)

Description: the project was aimed at developing a prototype system based on NDVI and NDWI temporal profiles analysis, useful to detect crop management dynamics in a pilot area in Sardinia. The proposed system was mainly intended to support ordinary activities of the local water supplying consortium.

Research contract for the investigation about potentialities of transfer technology of aerial remote sensing to Agriculture - “Analisi delle condizioni di trasferimento tecnologico al mercato del telerilevamento da mezzo aereo in agricoltura”

Committing company/institution: DIGISKY S.r.l.

Amount: -

Year: 2016 (12 months)

Description: the project was aimed at testing aerial remotely sensed images potentialities in the agriculture field, with focus on costs and feasibility of technology transfer. Both geometric and spectral features from sensors were investigated in respect of the forecasted agronomic utilization of data.

Research contract to support the development of a precision viticulture project based on remotely sensed data “Supporto allo sviluppo di un progetto di viticoltura di precisione mediante telerilevamento”

Committing company/institution: DELOITTE FINANCE PROCESS SOLUTION S.p.A.

Amount: -

Year: 2016 (12 months)

Description: the project was aimed at testing free satellite remotely sensed images potentialities in the viticulture field, with focus on costs and feasibility of technology transfer. In particular, information from spectral indices time series (NDVI and NDWI) were investigated in respect of the forecasted agronomic utilization of data.

Research contract for supporting the development of a validated dynamic system based on remotely sensed data aimed at monitoring services supplying in agriculture - “Supporto allo sviluppo di un sistema validato e dinamico per la fornitura di servizi di monitoraggio del territorio basato sull'utilizzo integrato di dati telerilevati”

Committing company/institution: Regione Piemonte Administration (Settore Fito-sanitario e Servizi Tecnico-Scientifici della Regione Piemonte)

Amount: 6,150 €

Year: 2016 (4 months)

Description: the project was aimed at testing free satellite remotely sensed images potentialities in the agriculture field, with special concerns about controls that institutions operate in respect of EU PAC requirements. In particular, information from spectral indices time series (NDVI and NDWI) were investigated as predictors of occurring management practices and crop type detection.

Research contract to propose methodological approaches based on remote sensing and agro-meteorology data for supporting crops monitoring in Piemonte (NW Italy) - "Supporto alla sperimentazione regionale in tema di Agrometeorologia per il monitoraggio del territorio e delle coltivazioni tramite telerilevamento"

Committing company/institution Regione Piemonte Administration (Settore Fito-sanitario e Servizi Tecnico-Scientifici della Regione Piemonte)

Amount: 13,000 €

Year: 2015 (6 months)

Description: the project (1st step) was aimed at testing free satellite remotely sensed images potentialities in the agriculture field, with special concerns about controls that institutions operate in respect of EU PAC requirements. In particular, information from spectral indices time series (NDVI and NDWI) were investigated as predictors of occurring management practices and crop type detection.

Research collaboration for exploring potentialities of drones and multispectral sensors in Precision Agriculture. ("Analisi esplorative riguardante l'utilizzo dei droni e dei sensori di telerilevamento in agricoltura di precisione") - Committing company/institution: DELOITTE FINANCE PROCESS SOLUTION S.p.A.

Amount: -

Year: 2015 (12 months)

Description: the project was aimed at testing UAV remotely sensed images potentialities in the agriculture field, with special focus on costs estimation, productivity and proposal of possible technology transfer scenarios.

Conferences (chair, Scientific and Organizing committees, invited speaker)

Chair at the XV Conferenza ASITA 2011 (15 -18 novembre 2011, Parma - Reggio di Colorno): 17.00 – 18.30 session 15 - Geomatica forestale e monitoraggio della vegetazione

Chair at XVI Conferenza ASITA2012 (6 -9 novembre 2012, Centro Congressi Fiera di Vicenza), session 18- telerilevamento: cambiamenti climatici; meteorologia; trasformazioni del territorio

Chair at the XVII Conferenza ASITA 2013 (5 - 7 novembre 2013, Riva del Garda) , Session 6: APPLICAZIONI AGRICOLE e FORESTALI del TELERILEVAMENTO

Chair of the Poster Session FOREST VEGETATION at IGARSS 2015 - Milano 28/7/2015

Chair of the oral sessions A) OPTICAL FOREST VEGETATION I and B) OPTICAL FOREST VEGETATION II IGARSS 2015 - Milano 28/7/2015

Invited speaker at the WORLD SOIL DAY 2015. Torino, 4/12/2015 organized by IPLA (Istituto per le Piante da Legno e l'Ambiente) with the following prese: SUOLO, IMPATTO ANTROPICO E SOSTENIBILITÀ AMBIENTALE. Title of the presentation : "Qualità del suolo e criteri quantitativi per la pianificazione dell'uso del suolo in aree periurbane"

Invited speaker at the ENOVITIS IN CAMPO 2016. Torrevento (BA), 18/6/2016 – Scientific-technical Workshop about applications in precision viticulture. Title of the presentation "Dal dato remoto alle mappe di prescrizione: rilevamento aereo e satellitare a confronto".

Chair of the Plenary Session named "Nuove Tecnologie e Applicazioni del Telerilevamento" at the VIII Convegno Nazionale AIT (Associazione Italiana di Telerilevamento). Palermo, 21-22/6/2016.

Member of the Organizing Committee of ASITA since 2013

Memberships

Member of the Scientific Committee of ICC (International Cartographic Conference) – Firenze, 14-18/12/2021

- President of the **Italian Society of Remote Sensing** (since 2022)
- President of the **Scientific Committee of ASITA** (Confederation of the Scientific Societies for the Environmental and Territorial Information) (since 2022)
- Vice-President of **ASITA**
- Ordinary Member of the **Academy of Agriculture of Torino**
- Referent person for its Department (DISAFA) within the Copernicus Academy (EU)
- **Chair of the Agriculture Special Interest Group in EARSeL** (European Association of Remote Sensing Laboratories)
- Member of NATRISK (Centro interdipartimentale sui rischi naturali in ambiente montano e collinare - Università di Torino) from 01-01-2013
- Member of the Directive Council of CENTRO STUDI PER LO SVILUPPO RURALE DELLA COLLINA – CSC dell'Università di Torino from 10-06-2013.

Editorial Activity

Editor
 MDPI Remote Sensing;
 MDPI Agronomy
 MDPI Geomatics
 Springer Discover Agriculture
 Springer, Communications in Computer and Information Science: Geomatics and Geospatial Technologies.
 Associate Editor of Frontiers in Agronomy (Climate-Smart Agronomy) - <https://loop.frontiersin.org/people/1094232/editorial>
 Guest Associate Editor for Frontiers in Forests and Global Change - <https://loop.frontiersin.org/people/1094232/editorial>

Guest Editor
 MDPI Land-"Geomatics for Resource Monitoring and Management";
 MDPI Remote Sensing-"Remote Sensing in Agriculture: State-of-the-Art";
 MDP Agronomy-"Spatially-Based Services and Applications in Precision Farming: From Data to Field Information"
 Frontiers in Forests and Global Change-"Geomatics and Forests: Current and Future Opportunities and Challenges".

Reviewer for the following international Journals

Reviewer activity

- MDPI-Remote Sensing
- MDPI- Water
- MDPI- Forests
- MDPI – Geosciences
- MDPI – J. of GeoInformation
- MDPI - Sustainability
- Int. J. of Rem. Sens. (Taylor&Francis)
- IEEE Geosc. and Rem. Sens. Letters (IEEE)
- Env. Monitoring and Assessment (Springer)
- Landscape and Urban Planning (Elsevier)
- Urban Forestry and Urban Greening (Elsevier)

Personal and Research
Group Awards

- (2002) Best Poster award at VI ASITA Conference - “Prove di classificazione su immagini multispettrali ad alta risoluzione pan-sharpened”.
- (2005) Best Poster award at IX ASITA Conference - “Tecniche innovative per il rilievo multispettrale di affreschi murali”.
- (2019) Best Paper Award at the 19th Int. Conf. on Comput. Sc. and its Applic. (ICCSA 2019), Saint Petersburg (Ru).
- (2019) Best Paper AWARD for “Track: Geoscience and Remote Sensing & Satellite and Comm. Tech. (GRS & SCT)” at the 6th Int. Conf. on Space Sc. & Comm. (IconSpace2019), 28-30/07/2019, Malaysia.
- (2023) Best Paper Award at 5th Euro-Mediterranean Conference for Environmental Integration (EMCEI) - Track 8. Remote sensing and GIS for environmental monitoring and management - Paper number 658 : A World-based Google Earth Engine One Health application to monitor and assess water quality for aquatic habitat.

Grugliasco, 13/05/2024

In fede



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