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1 EDUCATION

1975 Master in Physics (Summa cum Laude), State University of Milan.

1981 Advanced professional Engineering Seminar "Digital Image Processing of Earth Observation Sensor Data", Berlin March 16-20, 1981. School of Engineering and Applied Science of The George Washington University of Washington DC USA.

1983 Training Period under the direction of USGS, Subject of Specialization "Digital Image Processing", Jan. 31 - Feb. 25 1983, US Geological Survey, Flagstaff, Arizona USA

2 APPOINTMENTS

2004 – present Head of CNR-IREA Remote Sensing unit in Milan: staff units 38
(17 researchers, 6 technicians and administrative, 15 fellowship)

2003 – present Member of CNR-Comitato Area di Ricerca Milano-1

2001 Senior Researcher at CNR-IREA, (INGEGNERIA CIVILE E ARCHITETTURA, ranked 1° with score 96.6/100)

2014 Visiting Scientist (June-August) at the College of Natural Resources, Department of Forest, Rangeland and Fire Sciences, University of Idaho, Moscow (ID-USA)

2004-2005 Contract Professor for Remote Sensing (IAT-Como), Ingegneria per l'Ambiente e il Territorio, Politecnico di Milano, Repertorio n. 101 del 12/01/2005

2003-2004 Contract Professor for Remote Sensing (IAT- Como), Ingegneria per l'Ambiente e il Territorio, Politecnico di Milano, Repertorio n. 254 del 25/05/2004

2002-2003 Contract Professor for Remote Sensing (IAT- Como), Ingegneria per l'Ambiente e il Territorio, Politecnico di Milano, Repertorio n. 144 del 12/05/2003

2001-2002 Contract Professor for Remote Sensing (IAT- Como), D.U. Ingegneria per l'Ambiente e il Territorio, Politecnico di Milano, Repertorio n. 40 del 28/05/2002

2000-2001 Contract Professor for Remote Sensing (IAT- Como), D.U. Ingegneria Ambientale, Politecnico di Milano, Repertorio n. 475 del 05/09/2001

1998-1999 Contract Professor for Remote Sensing. Ingegneria Informatica (Polo Regionale di Como), Politecnico di Milano, Repertorio n. 289 del 08/06/1999

1997-1998 Contract Professor for Remote Sensing. Ingegneria Informatica e Gestionale (Polo Regionale di Como), Politecnico di Milano, Repertorio n. 145 del 29/06/1998

1996-1997 Visiting Scientist at the Institute of Remote Sensing Applications JRC-EC, Ispra (Letter of J.P. Malingreau JRC ref: VO4.056.96.jmg 30-January-1996; Letter CNR Direz Centrale prot. 1510827 del 6 agosto 1996)

1982 Researcher at CNR-IGL Istituto per la Geofisica della Litosfera, Milano (Matr. 02366)

1977-1982 Fellowship CNR P.F. Geodynamics "Development of non traditional techniques (Remote Sensing) for the monitoring of active volcanoes

3 Research interest & Recent Projects

More than 30 years of experience in the domain of optical Remote Sensing, from visible to thermal IR, starting from the participation to HCMM Explorer-A (NASA Investigation HCM-050) and Tellus Project JRC-EC (NASA investigation HCM-025) in the years 1977-1982 and moving from qualitative approaches towards quantitative methods.

His competences cover both acquisition of radiometric measurements, through the radiometric calibration and atmospheric correction, and processing and automatic interpretation of remotely sensed images.

His research interests are the development of remote sensing methodologies and applications for monitoring natural resources and their disturbances at different spatial scales from local to regional and continental with the use of time series of coarse resolution satellites, as in the case of wildfires in Mediterranean and tropical environments.

In particular it is worthy to mention:

- retrieval of geophysical parameters and the modelling of surface related physical processes,
- automatic land cover mapping (land cover/land cover change) using novel techniques as fuzzy logic and for accuracy evaluation of satellite derived thematic maps with the introduction of fuzzy error matrix and optimal Pareto boundary,
- integration of multi-source data for environmental indicators definition and assessment using approximate reasoning techniques.

He participated at different level of responsibility to projects, either within national and international research programmes. Some of the recent Research Projects:

- 2000-2001, GBA-2000 (Global Burnt Area) initiative of Joint Research Centre- EC, Ispra;
- 2001-2003, ESA DUP-Project GLASNOWMAP: Glacier and Snow Mapping Information Service;
- 2004-2006, EU FP-6 GEOLAND Integrated Project for the African Observatory of the global Land cover and Forest change component;
- 2006-2007, Italian Ministry of Environment (Direzione Protezione Natura), Monitoring fires within National Parks of Italy using Satellite Imagery
- 2005-2008, EU PF-6 AWARE: A tool for monitoring and forecasting Available WAtter REsource in mountain environment.
- 2008-2012, EU FP-7 GEOLAND2: towards a GMES Land Monitoring Core Service for the service NARMA-Natural Resources Monitoring in Africa.
- 2013-2015, Regione Lombardia-CNR, Space4Agri
- 2014-2017, EU FP7 ERMES: An Earth Observation Model Based Rice Information Service

He is a member of the Editorial Board of "Italian Journal of Remote Sensing" (official journal of the Italian Association of Remote Sensing) and the historic journal "Bulletin of Geodesy and Geomatics" (formerly Bollettino di Geodesia e Scienze Affini) and serves as reviewer for several international scientific journals.

He is member of the Italian Association of Remote Sensing (AIT), the U.K. Remote Sensing & Photogrammetry Society (RSPSoc) and the IEEE Geoscience and Remote Sensing Society (GRSS).

Since 2010 Member of the GOFC/GOLD Fire Implementation Team (GLobal Observation of Forest and Land Cover Dynamics of GTOS); invitation letter of Dr. Michael Brady (Executive Officer GOFC/GOLD, Edmonton, Alberta, Canada) 08/01/2010.

2009 Elevated to the grade of Senior Member in IEEE - in recognition of professional standing certified by the Officers and Board of Directors of IEEE

2009 Eurofins Award for the best publication in the field of chemical analysis and environmental monitoring at the 19th SETAC Europe meeting, 2-3 Jul 2009, Lancaster UK (Nizzetto L., Jarvis A., Brivio P.A., Jones K.C., Di Guardo A., 2008. Seasonality of the air-forest canopy exchange of Persistent Organic Pollutants. Environmental Science & Technology, Vol. 42 (23), 8778-8783, Dec 1, 2008 doi: 10.1021/es802019g).

4 PUBLICATIONS

ISI Journals

h-index ISI Web: 18

Google Scholar: 23

Stroppiana D., R. Azar, F. Calò, A. Pepe, P. Imperatore, M. Boschetti, J. Silva, P.A Brivio, R. Lanari, 2015. Integration of Optical and SAR Data for Burned Area Mapping in Mediterranean Regions. *Remote Sensing* 7 (2), 1320-1345; (doi: 10.3390/rs70201320).

Hoscilo A., Balzter H., Bartholomè E., Boschetti M., Brivio P.A., Brink A., Clerici M., Pekel J.F., 2014. A conceptual model for assessing rainfall and vegetation trends in Sub-Saharan Africa from satellite data. *International Journal of Climatology* (doi: 10.1002/joc.4231).

Nutini F., M. Boschetti, G. Candiani, S. Bocchi, P.A. Brivio, 2014. Evaporative Fraction as an Indicator of Moisture Condition and Water Stress Status in Semi-Arid Rangeland Ecosystems. *Remote Sensing* 2014, 6(7), 6300-6323 (doi: 10.3390/rs6076300).

Boschetti M., F. Nutini, G. Manfron, P.A. Brivio, A. Nelson, 2014. Comparative analysis of normalised difference spectral indices derived from MODIS for detecting surface water in flooded rice cropping systems. *PLoS ONE* 9(2), e88741 (doi: 10.1371/journal.pone.0088741).

Stroppiana D., M. Antoninetti, P.A. Brivio, 2014. Seasonality of MODIS LST over Southern Italy and correlation with land cover, topography and solar radiation. *European Journal of Remote Sensing* 47, 133-152 (doi: 10.5721/EuJRS20144709).

Boschetti M., F. Nutini, P.A. Brivio, E. Bartholomè, D. Stroppiana, A. Hoscilo, 2013. Identification of environmental anomaly hot spots in Wets Africa from time series of NDVI and Rainfall. *ISPRS Journal of Photogrammetry and Remote Sensing*, 78, 26-40 (doi: 10.1016/j.isprsjprs.2013.01.003)

Nutini F., Boschetti M., P.A. Brivio, S. Bocchi, M. Antoninetti, 2013. Land-use and land-cover change detection in a semi-arid area of Niger using multi-temporal analysis of Landsat images. *International Journal of Remote Sensing*, 34 (13), 4769-4790; doi: 10.1080/01431161.2013.781702

Bordogna G., M. Boschetti, P.A. Brivio, P. Carrara, D. Stroppiana, C.J. Weisseiner, 2012. Handling heterogeneous bipolar information for modelling environmental syndromes of global change. *Environmental Modelling & Software*, 36, 131-147; doi: 10.1016/j.envsoft.2012.03.016

Stroppiana D., M. Boschetti, P.A. Brivio, L. Nizzetto, A. Di Guardo, 2012. Forest Leaf Area Index seasonal estimation in an Alpine valley from medium resolution satellite imagery and in-situ data. *Journal of Applied Remote Sensing*, 6, 063528 (doi: <http://dx.doi.org/10.1117/1.JRS.6.063528>).

Stroppiana D., G. Bordogna, P. Carrara, M. Boschetti, L. Boschetti, and P.A. Brivio, 2012. A method for extracting burned areas from Landsat TM/ETM+ images by soft aggregation of multiple Spectral Indices and a region growing algorithm. *ISPRS Journal of Photogrammetry and Remote Sensing*, 69, 88-102 (doi: <http://dx.doi.org/10.1016/j.isprsjprs.2012.03.001>).

Stroppiana D., Bordogna G., Boschetti M., Carrara P., Boschetti L., P.A. Brivio, 2012. Positive and negative information for assessing and revising scores of burn evidence. *IEEE Geoscience and Remote Sensing Letters*, 9 (3), 363-367, May 2012 (doi: 10.1109/LGRS.2011.2167953).

Weisseiner C.J., M. Boschetti, K. Bottcher, P. Carrara, G. Bordogna, P.A. Brivio, 2011. Spatial explicit assessment of rural land abandonment in the Mediterranean area. *Global and Planetary Change*, 79, 20-36. DOI: 10.1016/j.gloplacha.2011.07.009

Brivio P.A., Boschetti L., 2011. Foreword to Special Issue “MODIS 2000-2010: Ten Years of Success in the Earth Observation”. *Italian Journal of Remote Sensing*, 43 (3), 3-5. DOI: 10.5721/ItJRS2011433a1

Boschetti M., Stroppiana D., Brivio P.A., Confalonieri R., Crema A., Bocchi S., 2011. Estimation of rice production at regional scale with a Light Use Efficiency model and MODIS time series. *Italian Journal of Remote Sensing*, 43 (3),

- Boschetti M., D. Stroppiana, P.A. Brivio, 2010. Mapping Burned Areas in a Mediterranean Environment Using Soft Integration of Spectral Indices from High Resolution Satellite Images. *Earth Interactions*, 14 (17), 1-20.
- Stroppiana D., P.A. Brivio, J.-M. Grégoire, C. Liousse, B. Guillaume, C. Granier, A. Mieville, M. Chin, and G. Pétron, 2010. Comparison of global inventories of CO emissions from biomass burning derived from remotely sensed data. *Atmospheric Chemistry & Physics*, 10, 12173-12189.
- Stroppiana D., M. Boschetti, P.A. Brivio, S. Bocchi, 2009. Estimation of Plant Nitrogen Concentration in paddy rice from field canopy spectra. *Italian Journal of Remote Sensing*, n. 41(1), 45-57 doi: 10.5721/ItJRS20094115).
- Stroppiana D., M. Boschetti, P.A. Brivio, S. Bocchi, 2009. Plant nitrogen concentration in paddy rice from field canopy hyperspectral radiometry. *Field Crops Research*, Vol. 111(1-2), 119-129, Mar 2009 doi:10.1016/j.fcr.2008.11.004).
- Stroppiana D., M. Boschetti, P.A. Brivio, P. Carrara, G. Bordogna, 2009. A fuzzy anomaly indicator for environmental monitoring at continental scale. *Ecological Indicators*, Vol. 9(1), 92-106, Jan 2009 doi:10.1016/j.ecolind.2008.02.002.
- Boschetti M., D. Stroppiana, P.A. Brivio, S. Bocchi, 2009. Multi-year monitoring rice crop phenology through time series analysis of MODIS images. *International Journal of Remote Sensing*, Vol. 30(18), 4643 - 4662 doi 10.1080/01431160802632249.
- Stroppiana D., M. Boschetti, P. Zaffaroni, P.A. Brivio, 2009. Analysis and interpretation of spectral indices for soft multi-criteria burned area mapping in Mediterranean regions. *IEEE Geoscience and Remote Sensing Letters*, Vol. 6 (3), 499-503, July 2009 doi:10.1109/LGRS.2009.2020067.
- Brivio P.A., Petrucci B., M. Boschetti, P. Carrara, M. Pepe, A. Rampini, D. Stroppiana and P. Zaffaroni, A multi-year geographic database of fire affected areas derived from satellite images in the National Parks of Italy. *Italian Journal of Remote Sensing* Vol. 41(2), 65-78, June 2009 doi: 10.5721/ItJRS20094125.
- Nizzetto L., Pastore C., Liu X., Camporini P., Stroppiana D., Infantino A., Herbert B., Zhang G., M. Boschetti, P.A. Brivio, Jones K.C., Di Guardo A., 2008. Accumulation parameters and seasonal trends for PCBs in temperate and boreal forest plant species. *Environmental Science & Technology*, Vol. 42 (16), 5911-5916, Aug 15 2008 doi: 10.1021/es800217m.
- Nizzetto L., Jarvis A., Brivio P.A., Jones K.C., Di Guardo A., 2008. Seasonality of the air-forest canopy exchange of Persistent Organic Pollutants. *Environmental Science & Technology*, Vol. 42 (23), 8778-8783, Dec 1, 2008 doi: 10.1021/es802019g
- Carrara P., G. Bordogna, M. Boschetti, P.A. Brivio, A. Nelson, D. Stroppiana, 2008. A flexible multi-source spatial-data fusion system for environmental status assessment at continental scale. *Int. J. of Geographical Information Science*, 22 (7), 781-799, 2008 doi: 10.1080/13658810701703183
- Boschetti M., S. Bocchi, P.A. Brivio, 2007. Assessment of pasture productivity in the Italian Alps using spectrometric and remote sensing information. *Agriculture, Ecosystems & Environment*, Vol. 118 (1-4), 267-272, Jan 2007 doi:10.1016/j.agee.2006.05.024
- Nizzetto L., D. Stroppiana D., P.A. Brivio, M. Boschetti, A. Di Guardo, 2007. Tracing the fate of PCBs in forest ecosystems. *Journal of Environmental Monitoring*, 9(6), 542-549, 2007 doi: 10.1039/b701351e
- Stroppiana D., M. Boschetti, S. Bocchi, P.A. Brivio, 2006. Evaluation of LAI-2000 for leaf area index monitoring in paddy rice. *Field Crops Research*, Vol. 99 (2-3), 167-170, Oct 30 2006. doi: 10.1016/j.fcr.2006.04.002
- Boschetti M., P.A. Brivio, D. Carnesale, A. Di Guardo, 2006. The contribution of hyperspectral remote sensing to identify vegetation characteristics necessary to assess the fate of Persistent Organic Pollutants (POPs) in the environment. *Annals of Geophysics*, Vol. 49 (1), 177-186, Feb 2006.
- Boschetti L., P.A. Brivio, H. Eva, J. Gallego. A. Baraldi, J.M. Grégoire, 2006. A sampling method for the retrospective validation of Global Burned Area products. *IEEE Trans. on Geoscience & Remote Sensing*, Vol. 44 (7), 1765-1773, Jul 2006. doi: 10.1109/TGRS.2006.874039
- Pepe M., P.A. Brivio, A. Rampini, F. Rota Nodari, M. Boschetti, 2005. Snow cover monitoring in alpine regions using

Envisat optical data. *International Journal of Remote Sensing*, Vol. 26 (21), 4661-4667, Nov 10, 2005. doi: 10.1080/01431160500206635

Boschetti L., H. D. Eva, P.A. Brivio, J. M. Grégoire, 2004. Lessons to be learned from the comparison of three satellite-derived biomass burning products. *Geophysical Research Letters*, Vol. 31, No. 21, L21501, Nov 3 2004. doi: 10.1029/2004GL021229

Tansey K., J. M. Grégoire, E. Binaghi, L. Boschetti, P.A. Brivio, D. Ershov, S. Flasse, R. Fraser, D. Graetz, M. Maggi, P. Peduzzi, J.M.N. Pereira, J. Silva, A. Sousa, and D. Stroppiana, 2004. A global inventory of burned areas at 1km resolution for the year 2000 derived from SPOT Vegetation data. *Climatic Change*, Vol. 67 (2), 345 – 377, Dec 2004. doi: 10.1007/s10584-004-2800-3

Tansey K., J. M. Grégoire, D. Stroppiana, A. Sousa, J. Silva, J.M.N. Pereira, L. Boschetti, M. Maggi, P.A. Brivio, R. Fraser, S. Flasse, D. Ershov, E. Binagli, D. Graetz, P. Peduzzi, 2004. Vegetation burning in the year 2000: Global burned area estimates from SPOT Vegetation data. *Journal of Geophysical Research* Vol. 109 (D14S03), Jun 8 2004. doi: 10.1029/2003JD003598

Boschetti L., S. Flasse, P.A. Brivio, 2004. Analysis of the conflict between omission and commission in low spatial resolution dichotomic thematic products: the Pareto Boundary. *Remote Sensing of Environment*, Vol. 91 (3-4), 280-292, Jun 30 2004. doi: 10.1016/j.rse.2004.02.015

Binaghi E., M. Boschetti, P.A. Brivio, I. Gallo, F. Pergalani and A. Rampini, 2004. Prediction of displacements in unstable areas using a neural model. *Natural Hazards*, Vol. 321 (1), 137-156, May 2004. doi: 10.1023/B:NHAZ.0000026796.59079.1a

Reguzzoni M., F. Sansò, G. Venuti, P.A. Brivio, 2003. Bayesian classification by data augmentation. *International Journal of Remote Sensing*, Vol. 24 (20), 3961-3981, Oct 2003. doi: 10.1080/0143116031000103817

Belward A., E. Binaghi, P.A. Brivio, G.A. Lanzarone and G. Tosi (Eds.) 2003. Preface Special Issue on "GeoSpatial Knowledge Processing for Natural Resource Management". *International Journal of Remote Sensing*, Vol. 24 (20), 3885-3886, Oct 2003. doi: 10.1080/0143116031000103754

Boschetti L., P.A. Brivio, J.M. Grégoire, 2003. The use of Meteosat and GMS imagery to detect burned areas in tropical environments. *Remote Sensing Environment*, Vol. 85 (1), 78-91, Apr 25 2003. doi: 10.1016/S0034-4257(02)00189-X

Brivio P.A., M. Maggi, E. Binaghi, I. Gallo, 2003. Mapping burned surfaces in Sub-Saharan Africa based on multi-temporal neural classification. *International Journal of Remote Sensing*, Vol. 24 (20), 4003-4018, Oct 2003. doi: 10.1080/0143116031000103835

Giardino C., P.A. Brivio, 2003. The application of a dedicated device to acquire bidirectional reflectance factors over natural surfaces. *International Journal of Remote Sensing*, Vol. 24 (14), 2989-2995, Jul 20 2003. doi: 10.1080/0143116031000094782

Brivio P.A., R. Colombo, M. Maggi, R. Tomasoni, 2002. Integration of remote sensing data and GIS for accurate mapping of flooded area. *International Journal of Remote Sensing*, Vol. 23 (3), 429-441, feb 2002. doi: 10.1080/01431160010014729

Baraldi A., E. Binaghi, P. Blonda, P.A. Brivio, A. Rampini, 2001. Comparison of the multilayer perceptron with neuro-fuzzy techniques in the estimation of cover class mixture in remotely sensed data. *IEEE Trans. on Geoscience and Remote Sensing*, Vol 39 (5), 994-1005, May 2001. doi: 10.1109/36.921417

Giardino C., M. Pepe, P.A. Brivio, P. Ghezzi, E. Zilioli, 2001. Detecting chlorophyll, Secchi disk and surface temperature in a subalpine lake using Landsat imagery. *Science of the Total Environment*, Vol. 268 (1-3), 19-29. doi: 10.1016/S0048-9697(00)00692-6

Brivio P.A., C. Giardino, E. Zilioli, 2001. Validation of satellite data for quality assurance in lake monitoring applications. *Science of the Total Environment*, Vol. 268 (1-3), 3-18, Mar 14 2001. doi: 10.1016/S0048-9697(00)00693-8

Brivio P.A., C. Giardino, E. Zilioli, 2001. Determination of chlorophyll concentration changes in Lake Garda using an image-based radiative transfer code for Landsat TM images. *International Journal of Remote Sensing*, Vol. 22 (2-3), 487-502, Jan 2001. doi: 10.1080/014311601450059

Brivio P.A., M. Pepe, R. Tomasoni, 2000. Multispectral and multiscale remote sensing data for archaeological prospecting in an alpine alluvial plain. *Journal of Cultural Heritage*, Elsevier, Vol. 1(2), 155-164. doi: 10.1016/S1296-2074(00)00155-2

Binaghi E., P.A. Brivio, P. Ghezzi, A. Rampini, 1999. A Fuzzy Set-Based Accuracy Assessment of Soft Classifications. *Pattern Recognition Letters*, Vol. 20, 935-948, Sep 1999. doi: 10.1016/S0167-8655(99)00061-6

Binaghi E., P.A. Brivio, P. Ghezzi, A. Rampini, E. Zilioli, 1999. Investigating the behaviour of neural and fuzzy-statistical classifiers in sub-pixel land cover estimations. *Canadian Journal of Remote Sensing*, Vol. 25 (2), 171-188.

Brivio P.A., J.M. Grégoire, B. Cros, C. Galy-Lacaux, J.P. Lacaux, 1999. A rose analysis method relating air chemistry to fire distribution in tropical Africa. *Atmospheric Research*, Vol. 50 (2), 81-104, Feb 1999. doi: 10.1016/S0169-8095(98)00096-9

Swamy A.N., P.A. Brivio, 1997. Modelling runoff using optical satellite remote sensing data in high mountainous alpine catchment of Italy. *Hydrological Processes*, Vol. 11, 1475-1491, Sep 1997. doi: 10.1002/(SICI)1099-1085(199709)11:111475::AID-HYP480>3.0.CO;2-Z

Zilioli E., P.A. Brivio, 1997. The satellite derived optical information for the comparative assessment of lacustrine water quality. *Science of the Total Environment*, Vol. 196, 229-245, Apr 1 1997. doi: 10.1016/S0048-9697(96)05411-3

Swamy A.N., P.A. Brivio, 1996. Hydrological modelling study using visible and infrared satellite data in high mountainous Italian Alps. *International Journal of Remote Sensing*, Vol. 17 (16), 3169 – 3188, Nov 10 1996. doi: 10.1080/01431169608949137

Brivio P.A., E. Zilioli, 1996. Assessing wetland changes in the Venice lagoon by means of satellite remote sensing data. *Journal of Coastal Conservation*, Opulus Press, Uppsala, Vol. 2, 23-32. doi: 10.1007/BF02743034

Binaghi E., P.A. Brivio, P. Ghezzi, A. Rampini, E. Zilioli, 1996. A hybrid approach to fuzzy land cover classification. *Pattern Recognition Letters*, Vol. 17 (13), 1399-1410, Nov 25 1996. doi: 10.1016/S0167-8655(96)00096-7

Binaghi E., P.A. Brivio, A. Rampini, R. Schowengerdt (Eds), 1996. Editorial. Special issue on non-conventional pattern analysis in remote sensing. *Pattern Recognition Letters*, Vol. 17 (13), 1323-1324, Nov 25 1996. doi: 10.1016/S0167-8655(96)00088-8

Zilioli E., P.A. Brivio, M.A. Gomarasca, 1994. A correlation between the optical properties from satellite data and some indicators of eutrophication in the Lake Garda (Italy). *Science of the Total Environment*, Vol. 158, 127-133, Dec 18 1994. doi: 10.1016/0048-9697(94)90052-3

Brivio P.A., D. Marini, 1993. A fractal method for digital elevation model construction and its application to a mountain region. *Computer Graphics Forum*, Vol. 12 (5), 297 - 309, Dec 1993. doi: 10.1111/1467-8659.1250297

Gomarasca M.A., P.A. Brivio, F. Pagnoni, A. Galli, 1993. One century of land use changes in the metropolitan area of Milan (Italy). *International Journal of Remote Sensing*, Vol. 14 (2), 211-223, Jun 1993. doi: 10.1080/01431169308904333

Brivio P.A., I. Doria, E. Zilioli, 1993. Aspects of spatial autocorrelation in Landsat TM data to the inventory of waste-disposal sites in rural environment. *Photogramm Engineering & Remote Sensing*, Vol. 59 (9), 1377-1382, Sep 1993.

Brivio P.A., A. Della Ventura, A. Rampini, and R. Schettini, 1992. Automatic selection of control-points from shadows structures. *International Journal of Remote Sensing*, Vol. 13 (10), 1853 – 1860, Jul 10 1992. doi: 10.1080/01431169208904234

Cassinis R., N. Tosi, G.M. Lechi, P.A. Brivio, E. Zilioli and A. Marini, 1984. Thermal inertia of rocks: An HCMM experiment on Sardinia, Italy. *International Journal of Remote Sensing*, Vol. 5 (1), 79-94, 1984. doi: 10.1080/01431168408948790

Other Journals

1980 - Brivio P.A., R. Tomasoni and E. Zilioli. Vulcano Island: Realisation of a new method for surficial heat balance control. *Bulletin Bureau de Recherches Geologiques et Minieres* (Paris), Section IV, Vol. 2, 161-168. ISSN:non
1984 - Brivio P.A., J.M. Grègoire, E. Zilioli. Use of Landsat imagery to detect hydrological indicators of the Niger

- River regime. *I.T.C. Journal*, Enschede (The Netherlands), n° 1984-3, 191-199. ISSN: 0303-2434
- 1992 - Brivio P.A., Marini D., M. Righetti. Fractal based technique for mountain relief reconstruction. *EARSeL Advances in Remote Sensing*, Vol. 1 (3), 136-141. ISSN: 1017-4613
- 1993 - Brivio P. A., TISS: a system for multispectral rendering of mountainous landscape. *Bulletin Société Francaise de Photogrammétrie et Télédétection*, n°. 129, (1993-1), 47-54. ISSN: 0244-6014
- 1994 - Brivio P.A., I. Doria, E. Zilioli, Structure function analysis of natural scenes from Landsat-TM data. *I.T.C. Journal*, Enschede (The Netherlands), n°. 1994-1, 1-6. ISSN: 0303-2434
- 1994 - Zilioli E., P.A. Brivio, L. Colombo, M.A. Gomarasca e G.M. Lechi, Applicazioni e prospettive del Telerilevamento nel censimento e nel monitoraggio dei siti di discarica. *Rivista Italiana di Telerilevamento*, n. 3, 37-44. ISSN: 1129-8596
- 1995 - Zilioli E., P.A. Brivio, Il monitoraggio delle acque lacustri mediante analisi di cromaticita' dei dati provenienti da sensori satellitari. *Acqua Aria*, 9/95, 927-934. ISSN: 0391-5557
- 1997 - Brivio P.A., J.M. Grégoire, Gli incendi nella fascia tropicale del globo: aspetti metodologici nell'analisi dei dati da satellite. *Rivista Italiana di Telerilevamento*, n. 11, 17-26. ISSN: 1129-8596
- 1997 - Giardino C., Brivio P.A., Zilioli E., The quality of lake waters. *Sistema Terra*, 6, 59-63. ISBN 88-420-4627-2
- 1999 - Brivio P.A, Approcci non convenzionali alla classificazione delle immagini nel Telerilevamento. *Rivista Italiana di Telerilevamento*, n. 16, 3-12. ISSN: 1129-8596
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5 Editorial Board & Editor of Special Issues - Reviewer

Since 1998 Member of Scientific Committee of *Rivista Italiana di Telerilevamento* (**ISSN: 1129-8596**). Italian Journal of Remote Sensing (from 2009 ISI)

Since 2008 Member of Scientific Committee of Bulletin of Geodesy and Geomatics, **ISSN: 0006-6710** (Anno LXVII - 2); prima Bollettino di Geodesia e Scienze Affini, 1949, Official Journal of IGMI (Istituto Geografico Militare d'Italia)

1996 Editor Special Issue - Pattern Recognition Letters, Vol. 17 (13) pp. 1323-1414.

1999 Editor Special Issue - Rivista Italiana di Telerilevamento, Tecniche non convenzionali di classificazione, Vol.n 16, pp. 3-58, maggio 1999. ISSN: 1129-8596

2003 Editor Special Issue - International Journal of Remote Sensing, Vol. 24 (20) pp. 3883-4064.

2011 Editor Special Issue - "MODIS 2000-2010: Ten Years of Success in the Earth Observation". Italian Journal of Remote Sensing, 43 (3), 3-5 (doi: 10.5721/ItJRS2011433a1).

Reviewer for the Journals:

- International Journal of Remote Sensing
- Remote Sensing of Environment
- IEEE Transactions on Geoscience and Remote Sensing
- IEEE Geoscience and Remote Sensing Letters
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
- Remote Sensing Letters
- Remote Sensing
- Italian/European Journal of Remote Sensing
- Advances in Space Research
- Science of the Total Environment
- Pattern Recognition Letters

- International Journal of Wildland Fire
- Journal of Hydrology
- Annals of Geophysics
- Biodiversity and Conservation
- Journal of Cultural Heritage

6 Training & Teaching

Ph.D. Advisor

- 2012-2014 Ramin Azar - Integration and fusion of SAR data with optical remotely sensed data for natural resources monitoring, , PhD. in Geodesia e Geomatica, XXVII Cycle, Politecnico di Milano
2006 Boschetti Mirco - Monitoring Cropping System through Remote Sensing and Crop Models.
PhD. in Biologia Vegetale e Produttività della Pianta Coltivata, XVIII cycle, State University of Milan
2005 Boschetti Luigi - Methodology for Accuracy Assessment of Global Scale Burned Area Maps Derived from Satellite Images. PhD. in Geodesia e Geomatica, XVII cycle, Politecnico di Milano
2001 Giardino Claudia - Anisotropy of the Reflected Radiation Field over Natural Surfaces. PhD. in Scienze Geodetiche e Topografiche, XIV cycle, Politecnico di Milano

Master Thesis

- 1980 Timò Corrado (matr. 164818) - State University of Milan, Physics
1985 Castellazzi Loredana - State University of Milan, Information Science
1987 Fain Annalisa (matr. non disponibile) - State University of Milan, Information Science
1987 Righetti Massimo (matr. 254559) - State University of Milan, Information Science
1988 Pelizzon Carlo (matr. non disponibile) - State University of Padova, Science of Forestry
1989 Cristanini Vito (matr. 267714) - State University of Milan, Information Science
1990 Marotta Marcello (matr. 304332) - State University of Milan, Information Science
1991 Furini Paolo (matr. 319629) - State University of Milan, Information Science
1992 Roversi Tiziana (matr. 309852) - State University of Milan, Information Science
1992 Balbo Vittoria (matr. 309850) - State University of Milan, Information Science
1993 Osculati Francesco (matr. 304839) - State University of Milan, Information Science
1993 Iezzi Andrea (matr. 588908) - Politecnico di Milano, Civil Engineering
1993 Arrigazzi Michele (matr. 590499) - Politecnico di Milano, Civil Engineering
1994 Bernasconi Davide (matr. 338054) - State University of Milan, Information Science
1995 Soldà Luca (matr. 371424) - State University of Milan, Information Science
1995 Galli Giorgio (matr. 339448) - State University of Milan, Information Science
1995 Felici Laura (matr. 594896) - Politecnico di Milano, Civil Engineering
1995 Giardino Claudia (matr. 593345) - Politecnico di Milano, Civil Engineering
1997 Naldi Tomaso (matr. 597074) - Politecnico di Milano, Civil Engineering
1997 Stroppiana Daniela (matr. 611441) - Politecnico di Milano, Civil Engineering
1999 Gatti Davide (matr. 617996), Reguzzoni Mirko (matr. 618024) - Politecnico di Milano, Computer Engineering
1999 Boschetti Luigi (matr. 623198) - Politecnico di Milano, Civil Engineering
1999 Basoni Anna (matr. 605296) - Politecnico di Milano, Civil Engineering
2000 Liboni Nicola (matr. 800315) - Politecnico di Milano, Computer Engineering
2000 Merlo Fabrizio (matr. 628652) - Politecnico di Milano, Civil Engineering
2002 Pari Ilaria (matr. 570998) - State University of Milan, Agronomy
2003 Gnocchi Stefania (matr. 628507) - Politecnico di Milano, Civil Engineering.
2003 Carnesale Daniela (matr. 508796) - University of Milano Bicocca, Science and Technology for the Environment
2005 Kunzle Annmaria (matr. 667121) - Politecnico di Milano, Civil and Environmental Engineering
2006 Zaffaroni Paolo (matr. 666400) - Politecnico di Milano, Civil and Environmental Engineering.

Tutor International Stages

- 2001-02 (2/October/2001- 1/October/2002) Supervisor of Dr. Nguyen Tien Cong (Center for Remote Sensing and Geomatic, Hanoi, Vietnam) in the frame of ICTP Programme TRIL Training and Research in Italian Laboratories (International Center for Theoretical Physics, Trieste), subject “Remote Sensing in Coastal Areas” (Letter Prof. G. Furlan prot GF/ed del 30 giugno 2004)
1995-96 (3/June/1995-2/June/1996) Supervisor of Dr. A.N. Swamy (Andhra University, Visakhapatnam, India) in the frame of ICTP Programme TRIL Training and Research in Italian Laboratories (International Center for

- Theoretical Physics, Trieste), subject "Remote Sensing and Hydrology" (Letter Prof. G. Furlan prot GF/ed del 6 febbraio 1996)
- 1990-92 (29/March/1990-29/February/1992) Supervisor of Dr. A.N. Swamy (Andhra University, Visakhapatnam, India) in the frame of ICTP Programme TRIL Training and Research in Italian Laboratories (International Center for Theoretical Physics, Trieste), subject "Remote Sensing and Hydrology" (Letter Prof. G. Furlan prot GF/ed del 21 giugno 1990)

Tutor CNR fellowship

- 2000 Responsabile Scientifico del contratto di collaborazione professionale: Dott. Luigi Boschetti sul tema "Test e applicazione di algoritmi per l'individuazione di aree bruciate da immagini SPOT-VGT" nel quadro del contratto n° 16180-2000-05 F1EI ISP IT.
- 2001 Responsabile Scientifico del contratto di collaborazione professionale: Dott Michele Meroni sul tema "Studio delle potenzialità del sensore VISIR per la stima dei flussi di energia e vapore acqueo sulle superfici vegetate" nel quadro del contratto ASI – Programma Piccole Missioni Scientifiche.
- 2002 Responsabile Scientifico del contratto di collaborazione professionale: Dott Mirco Boschetti sul tema "Elaborazione delle informazioni geografiche per l'analisi delle relazioni tra siti archeologici e contesto ambientale nell'area del Garda meridionale" nel quadro del P.F. Beni Culturali.
- 1989 Responsabile Borsa di Studio CNR, Dott. Massimo Righetti: "Analisi ed elaborazione delle immagini telerilevate nei settori dei modelli digitali del terreno e dei sistemi informativi" (12 mesi dal 01/04/1989).
- 1993 Responsabile Borsa di Studio CNR, Dott. Ilaria Doria: "Analisi di immagini telerilevate per la definizione delle caratteristiche di tipo spaziale ..." (12 mesi dal 15/05/1993) contratto ASI "Sviluppo di metodi integrati di classificazione agroecologica tramite dati da TLR per la gestione delle risorse naturali"
- 1995 Responsabile Borsa di Studio CNR, Dott. Nancy Ann Minciotti: "Rilevamento del territorio e dei manufatti" (10 mesi dal 01/03/1995) PF. Beni Culturali SP-1. Individuazione delle risorse nello spazio e nel tempo, Linea 1.1.1 Telerilevamento
- 2003 Responsabile Scientifico Assegno di Ricerca Dr Mirco Boschetti: "Raccolta e integrazione di misure spettroradiometriche per l'analisi dei dati telerilevate da satellite" (12 mesi, 15/03/2002) Progetto ASI "Italian Glacier Monitoring from Space"
- 2004 Responsabile Scientifico Assegno di Ricerca Dr Mirco Boschetti: "Global Land cover and forest change: assessment of environmental status Africa" (12 mesi, 01/04/2004), contratto CE FP6-502871 GeoLand
- 2004 Responsabile Scientifico Assegno di Ricerca Dr. Daniela Stroppiana: "Global Land cover and forest change: assessment of environmental status Africa" (12 mesi, 03/05/2004), contratto CE FP6-502871 GeoLand
- 2004 Responsabile Scientifico Assegno di Ricerca Dr. Luigi Boschetti: "Global Land cover and forest change: validation of low resolution EO data products" (12 mesi, 17/05/2004), contratto CE FP6-502871 GeoLand
- 2006 Responsabile Scientifico Assegno di Ricerca Dr. Paolo Zaffaroni: "Utilizzo integrato delle immagini da satellite per lo studio della vegetazione e degli incendi" (12 mesi, 01/08/2006) – Contratto Ministero dell'Ambiente, Direzione Protezione Natura
- 2009 Responsabile Scientifico Assegno di Ricerca Dr. Daniela Stroppiana: "Sviluppo di indicatori ambientali derivati dall'analisi dei prodotti del GMES Land Monitoring Core service" (12 mesi, 16/01/2009) contratto CE FP7-218795 GeoLand2

Training Courses

- 1999 corsoENVI - Prima Edizione del Corso 'Un passo nel Telerilevamento' 27 sett – 1 ott 1999, Research System Italia, Agrate Brianza (Milano)
- 2000 corsoENVI - Seconda Edizione del Corso 'Un passo nel Telerilevamento' 5 – 9 giugno 2000, Research System Italia, Agrate Brianza (Milano)
- 2001 corsoENVI - Terza Edizione del Corso 'Un passo nel Telerilevamento' 17 – 21 sett 2001, Research System Italia, Agrate Brianza (Milano)
- 2002 corsoENVI - Quarta Edizione del Corso 'Un passo nel Telerilevamento' 23 – 27 sett 2002, Research System Italia, Agrate Brianza (Milano)
- 2003 corsoENVI - Quinta Edizione del Corso 'Un passo nel Telerilevamento' 22 – 26 sett 2003, Research System Italia, Agrate Brianza (Milano)
- 1989 Docente Corso CIRITA - "Ordine e Disordine" Corso in 3 cicli, 23-25 maggio 1989 "Insiemi Frattali", CIRITA/Politecnico di Milano, maggio 1989 (Lettera Prof. S. Rinaldi del 6 giugno 1989)
- 1988-89 Docente Guida (8 mesi) per il Corso di Formazione I.AGR.IN. del CORISA sulla tematica "Sistema Informativo Territoriale"
- 1991 Docente CORISA - "L'informatica nel telerilevamento: dall'acquisizione all'elaborazione delle immagini digitali", CO.RI.SA. - progetto I.AGR.IN., Sassari, 30/09/1991 – 04/10/1991 (35 ore) (Letter Presidente IAGRIN prot 2574/732i , 18/10/1991)

- 1991 Docente Corso AIT di base sul Telerilevamento, AIT presso ESRIN-ESA, Frascati, 2-6 dicembre 1991 (Letter Prof. G Lechi, 17 dicembre 1991)
- 1993 Docente Corso TELSAT di Telerilevamento Progetto TELSAT, CSCT-Consorzio Sistema Città Territorio, ISPESL, Monte Porzio (Roma), novembre 1993 (Letter Responsabile Formazione CSCT, 11 novembre 1993)
- 1994 Docente Corso TELSAT di Telerilevamento Progetto TELSAT (secondo ciclo), CSCT-Consorzio Sistema Città Territorio, ISPESL Monte Porzio (Roma), luglio 1994 (Letter Responsabile Formazione CSCT, 8 luglio 1994)
- 1994 Docente Corso TELSAT di Telerilevamento Progetto TELSAT, CSCT-Consorzio Sistema Città Territorio, ISPESL, Manfredonia (FG), febbraio 1994 (Letter CSCT rif MF/LBN/DCH/002, 25 febbraio 1994)
- 1994 Docente Corso OLBIA - CEE n. 1985 del 29.09.1993 c/o Engineering S.p.A., Olbia (SS), giugno 1994 (Letter Amministratore Delegato, 11 giugno 1994)
- 1995 Docente Corso AIT-CSEA, Corso Avanzato "Telerilevamento delle Risorse Terrestri", CSEA-Bonafus, Chieri (To), 27/04/1995 Correzioni radiometriche, 4 ore (letter Prof. G. Lechi, Presidente AIT, 15 marzo 1995)
- 1992 Docente XXXIV Corso di Aggiornamento in Ingegneria Sanitaria, Politecnico di Milano, giugno 1992 (Letter Direttori del Corso Prof. de Fraia Frangipane e Prof R. Vismara, 10 febbraio 1992)
- 1998 Docente Seminario RYLA '98, Conferenze introduttive ai problemi del telerilevamento satellitare applicato al monitoraggio ambientale (JRC-Ispra, 01/04/1998). Nell'ambito di Seminario RYLA 1998 (Rotary Youth Leadership Awards) "La tutela dell'ambiente: sfida per le tecnologie e opportunità per il lavoro" 30/03/1998 – 03/04/1998 con il patrocinio di Università Bocconi di Milano, Università Cattolica di Milano, Università degli Studi di Milano, Politecnico di Milano. (Letter S. De Angeli, Presidente RYLA 1998, 15/04/1998)
- 2004 Docente Corso Telerilevamento IREF, Corso di Telerilevamento (codice corso GRI0417/AE), IREF-Istituto Regionale Lombardo di Formazione per l'amministrazione pubblica. Corso di 48 ore (19/10/2004 – 30/11/2004) presso Politecnico di Milano –DIIAR Sezione Rilevamento, Elaborazione di immagini e interpretazione, 4 ore 09/11/2004 (GRI0417/AE www.irefonline.it)

Invited Presentations

- 2009 - Brivio P.A., Global CO emissions from vegetation fires: comparison of satellite derived datasets. BBSO-2 Burnt Biomass and Satellite Observations Workshop. Toulouse, France, November 18-19, 2009.
- 2009 Invited Speaker at the GEIA - ACCENT 2009 Open Conference, Oslo (Norway) 26-28 October 2009, GEIA (Global Emissions Initiative) "Comparison of global monthly CO emission maps derived from remotely sensed burned area datasets". Organization Committee: Claire Granier, Paulette Middleton, Bjorg Rognerud, Ivar Isaksen, Alex Guenther, Aude Mieville, Greg Frost, Laurens Ganzeveld, Charles Ichoku, Zbigniew Klimont, Cathy Liousse, Jean-François Muller, Leonor Tarrason and Vigdis Vestreng.
- 1999 Invited Speaker at Expert Meeting Euro-Landscape - Snowmelt runoff and energy balance models for alpine watersheds, Expert Meeting on "European Watershed Characterization and Modelling" 14-15 July 1999, Space Applications Institute JRC-EC Ispra (Invitation Letter S. Folving Euro-Landscape Project Leader, 14/06/1999)
- 1995 Invited Speaker at GISDATA Specialist Meeting - Urban pattern characterization through geostatistical analysis of satellite images, ESF - GISDATA Specialist Meeting on Remote Sensing and Urban Change (supported by ESF-European Science Foundation). Organizing Committee: J.P. Donnay (Univ. of Liege), D. Pumain (Univ. of Paris), A. Bianchin (Univ. of Venice), M. Barnsley (Univ. of Wales), Strasbourg (France), 07-11 June 1995. (Invitation Letter, M. Craglia, GISDATA Co-ordinator, Univ. Sheffield, 03/03/1995). Brivio P.A., E. Zilioli - In Remote Sensing and Urban Analysis (J.P. Donnay, M. Barnsley and P. Longley, Eds.), Taylor & Francis, London, pp. 39-53, ISBN 0-7484-0860-6.
- 1993 Invited Speaker at UN/IAF Workshop - Case study for managing water resources in the Sahel areas. In Organizing Space Activities in Developing Countries: Resources and Mechanisms, N. Jasentulyana and C. Hoffmann (Eds), UN/IAF Workshop, Graz (Austria), 15-17 October 1993, pp. 81-87. (Invitation Letter N. Jasentulyana Director UN Office of Outer Space Affairs, 26/03/1993)
- 1991 Invited Lecture ICTP - "Fractal analysis of mountain landscape" durante il "Miniworkshop on Nonlinearity: Fractals, Pattern Formation ...", 11 June-6 July, 1991 ICTP- International Centre for Theoretical Physics, Trieste, giugno 1991 (Letter ICTP Administration General Services Officer, 28/06/1991)
- 1991 Invited Lecture ICTP - "Fractal approach to development of Digital Elevation Model" durante il "Miniworkshop on Nonlinearity: Fractals, Pattern Formation ...", 11 June-6 July, 1991 ICTP- International Centre for Theoretical Physics, Trieste, giugno 1991 (Letter ICTP Administration General Services Officer, 28/06/1991)
- 1988 Invited Speaker ILP Research Conference - "Case study on advanced geothermal exploration in Italy" In ILP Research Conference on "Advanced data integration in mineral and energy resource studies", 28 November – 6 December 1988, Sotogrande-Spain, (Invitation Letter G.W Hill, Chairman ILP – International Lithosphere Project U.S.G.S, 30/09/1988)
- 1987 Lezione a invito SIFET - "Modello del rilievo terrestre e geometria frattale" durante il Seminario SIFET (Soc. Italiana di Topografia e Fotogrammetria) "Rappresentazione per modelli numerici", 1 ottobre 1987 Politecnico di Milano (Invitation Letter Prof. L. Mussio, 30/06/1994)

7 SERVICE

Committee Membership

- 1995 Organising Committee - Int. Workshop on *Soft Computing in Remote Sensing Data Analysis*, Milano December 4-5, 1995. (Series in Remote Sensing, Vol. 1, World Scientific, Singapore. pp. 260, ISBN 981-02-2757-4)
- 2001 Organising Committee - International Workshop Geospatial Knowledge processing for natural resources management, 28-29 June 2001, University of Insubria, Varese.
- 2001 Scientific Committee - 1st Int. Workshop on the Analysis of Multi-temporal Remote Sensing Images, 13-14 September 2001, University of Trento. (<http://www.ing.unitn.it/~multi/Multitemp2001/>) Analysis of Multi Temporal Remote Sensing Images, L. Bruzzone, P. Smits, Eds., World Scientific, Singapore, p vii, ISBN 981-02-4855-1)
- 2003 Scientific Committee - 2nd Int. Workshop on the Analysis of Multi-temporal Remote Sensing Images, 16-18 July 2003, Ispra (Italy) (<http://www.ing.unitn.it/~multi/Multitemp2003/>)
- 2003 Scientific Committee - Workshop on Airborne Remote Sensing for Geophysical and Environmental Applications, Roma 14-16 April 2003
- 2004 Scientific Committee - Workshop Hyperspectral Observation of Terrestrial Environments, Firenze 16-17 March 2004 (http://www.ifac.cnr.it/ot/hyperspectral_workshop_2004.html)
- 2006 Program Committee - IEEE GOLD Remote Sensing Conference 2006, Bari December 4-5, 2006 (Proceedings of IEEE GOLD Remote Sensing Conference 2006, pp. 102, ISBN978-889591118-2)
- 2007 Scientific Committee - 27th EARSeL Symposium, 4-7 June 2007, Bolzano
- 2007 Scientific Committee - 6th EARSeL Int. Workshop Forest Fires, Thessaloniki (Greece), 27-29 September 2007, ISBN: 92-79-06620-7
- 2009 Scientific Committee - Advances in Remote Sensing and GIS applications in forest fire management
7th EARSeL Int. Workshop, 2-5 September 2009 Forest Fires, Matera
- 2009 Scientific Committee - 29th EARSeL Symposium, 15-18 June 2009, Chania, Grecia
- 2011 Scientific Committee - Advances in Remote Sensing and GIS applications in forest fire management
8th EARSeL Int. Workshop, 20-21 October 2011, Stresa, Italy
- 2013 Scientific Committee - Advances in Remote Sensing and GIS applications in forest fire management
9th EARSeL Int. Workshop, 20-21 October 2013, Leicester, UK.
- 2015 Organizing Committee – IEEE International Geoscience and Remote Sensing Symposium 2015 (IGARSS-2015)
26-31 July 2015, Milano, Italy.

Milano, 28 February 2015



Pietro Alessandro Brivio