

Lazzarini Michele

Lazzarini Michele was born in Latisana (Udine, Italy) in 1978. He started to be interested in Remote Sensing and GIS from 2002, with a thesis (cum laude) regarding the human impact on vegetation.

These scientific interests have been in-depth studied with a First level Master in “Cartography and GIS” at Università degli Studi di Trieste (Italy) in 2004 and with a Master of Science course in “Remote Sensing” at University College London and Imperial College London (UK) in 2007.

In these years, he has gained a considerable experience with several types of optical images from environmental and commercial satellites with activities regarding image classification, vegetation analysis and mineral exploration. Joining these remote sensing projects and studies with the application of GIS in geostatistics, pollutant concentration and soil sealing analysis, he has obtained a good command with the main image processing software, having a wide view about the application of information technologies to Earth Observation. Currently he is pursuing a Ph.D. degree in "GeoInformation" in Tor Vergata University (Rome), with a research project focused on automatic algorithms development - based essentially on neural networks- to classify VHR images (multispectral and hyperspectral). Recently I was involved in a Data User Element project on Urban Heat Island studies through satellite and hyperspectral sensors application.

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Conferences:

1)M. Lazzarini, J.G. Liu, F. Del Frate, "Hyperspectral image enhancement using thermal bands: a methodology to remove building shadows", submitted to IGARSS 2010, Honolulu, Hawaii (USA), 25-30 July, 2010.

2)M. Lazzarini, F. Del Frate, "An automatic methodology to classify hyperspectral images based on spectral, textural and spatial information", submitted to IGARSS 2010, Honolulu, Hawaii (USA), 25-30 July, 2010.

3)M. Lazzarini, F. Del Frate, "Features extraction from hyperspectral images: an approach based on spectral, textural and spatial information applied to urban environments", Hyperspectral 2010 Workshop, ESA-ESRIN, Frascati, (I), March 17- 19, 2010.

4) M. Lazzarini, F. Del Frate, G. Ceriola. "Automatic buildings extraction from hyperspectral data and its application to urban thermography". Image Information Mining ESA-EUSC 2009, EUSC, Torrejon air base - Madrid (Spain), November 3-5, 2009.

5) F. Del Frate, M. Lazzarini, G. Licciardi, C. Putignano, C. Pratola, "Una procedura completamente automatica per la classificazione di immagini satellitari", XIV Riunione Annuale CeTeM / V Workshop AIT / XIV Giornata MECSA sull'Ingegneria delle Microonde, Roma, October 23-24,2008

6) C. Putignano, D. Solimini, A. Burini, F. Del Frate, G. Schiavon, G. Licciardi, M. Lazzarini, P. Manunta, F. De Biasi, "TerraSAR-X imaging for unsupervised land cover classification and fire mapping", 2008 IEEE International Geoscience & Remote Sensing Symposium, Boston, Massachusetts, U.S.A., July 6-11, 2008

7) F. Pacifici, E. Angiuli, M. Lazzarini, G. Licciardi, "Automatic Classification of SAR imagery with Neural Networks", 2008 IEEE GOLD Remote Sensing Conf., ESA/ESRIN, Frascati, Italy, May 2008.

8) P. Bevilacqua, M. Lazzarini, M. Kanevski, "Multivariate Analysis and 3D Mapping of Contamination in Coastal Region", presented on "GIS and Spatial Analysis" Annual Conference of the International Association for Mathematical Geology (IAMG) Toronto, Canada August 21-26, 2005

Papers:

1) M. Lazzarini, F. Del Frate, G. Ceriola “Automatic generation of building surface temperature maps from hyperspectral data submitted to IEEE letters.

2) P. Bevilacqua, M. Lazzarini, “Environmental monitoring: geostatistics applied to the Lagoon of Grado and Marano (italy) characterisation”, Siti Contaminati, 2/2004, pp 36-48, 2004

3) A. Comuzzi, M. Lazzarini, “Preliminary studies of the correlation between the concentration of pollutants and their hyperspectral response: a methodological approach”, Siti Contaminati, 2/2004, pp 50-62, 2004