



University of Pavia

Ph.D. School of Electrical and Electronics Engineering and Computer Science

SEMINAR

Recent Advances in Content Based Remote Sensing Image Retrieval

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Abstract: During the last decade, a huge number of earth observation (EO) satellites with optical and Synthetic Aperture Radar sensors onboard have been launched and advances in satellite systems have increased the amount and variety of EO data. This has led to massive EO data archives with huge amount of remote sensing (RS) images, from which retrieving useful information is challenging. In view of that, content based image retrieval (CBIR) has attracted great attention in the RS community. In this talk, a general overview on scientific and practical problems related to RS image characterization, indexing and search from massive archives will be initially discussed. Then, recent developments that can overcome the considered problems will be introduced by focusing on semantic-sensitive hashing based scalable and accurate RS CBIR systems.

Bio: Begüm Demir is currently an Assistant Professor (with accreditation for Associate Professor) in the Department of Information Engineering and Computer Science, University of Trento, Italy. She received the B.S. degree in 2005, the M.Sc. degree in 2007, and the Ph.D. degree in 2010, all in Electronic and Telecommunication Engineering from Kocaeli University, Turkey. Her main research interests include image processing and machine learning with applications to remote sensing image analysis. In particular, she conducts research on remote sensing image classification, biophysical parameters estimation and content based remote sensing image retrieval. She recently got an ERC Starting Grant with the project “BigEarth-Accurate and Scalable Processing of Big Data in Earth Observation”.

Organizer

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Seminar in English

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