Profiles of Speakers (Geoinformation Technologies)

Speaker:

Professor Daniele PERISSIN

Research Assistant Professor

Institute of Space and Earth Information Science (ISEIS)

Topic:

Synthetic Aperture Radar Interferometry (InSAR): Techniques and Applications

Biography:

Prof. Perissin is leading the InSAR group of ISEIS, CUHK since October 2009. He received the M.S. degree in telecommunications engineering and the Ph.D. degree in information technology from Politecnico di Milano (Italy), department of Electronics, in 2002 and 2006, respectively. From 2006 to 2009 he worked as postdoc research associate in the Signal Processing research group of the same department.

His main research interests are in the area of Synthetic Aperture Radar (SAR) processing for remote sensing applications, like Digital Elevation models estimation and terrain motion monitoring. In particular, his main contributions relate to SAR Interferometry (InSAR) and multi-image InSAR processing. He contributed to the development of the Permanent Scatterers (PS) technique, patented in POLIMI, and he is the author of some of its extensions, implemented by the software SARPROZ http://ihome.cuhk.edu.hk/~b122066/manual/index.html. He holds a patent on the use of urban dihedral reflectors for combining multisensor SAR data.