



Yearly presentations by PhD candidates

DISP meeting room, Ingegneria dell'Informazione ground floor, Via del Politecnico, 1
13 January 2011, starting at 15:00

Raja Chakraborty

Use of Microwave (SAR, Radiometer) Signatures in synergy with optical instruments to detect and monitor wetlands and flooding effects

ABSTRACT

The potential of using passive microwave observations to detect and monitor flood was explored during a time period of 2007–2009. Data from the Advanced Microwave Sensing Radiometer (AMSR–E) was used to demonstrate the potential of remotely sensed soil moisture in flood monitoring and detection applications.

The time trends of the polarization indexes, based on AMSR–E measurements at various channels from C to K_a band have been analyzed during a time period of three years. A significant correlation with soil and vegetation properties was observed.

Raja Chakraborty has been pursuing his PhD in GeoInformation, at Tor Vergata University, Rome, Italy, since December 2009. He obtained the M-Tech in Energy & Environment, Master of Philosophy (M.Phil) in Water Management & Master of Science in Environmental Science from Devi Ahilya University, Indore; Barkatullah University, Bhopal, respectively in the years 2007, 2006 & 2005.

Raja has had three years of research experience with Space Application Center (SAC), ISRO, Ahmedabad, India.

Cristina Vittucci

Inundated areas along river floodplains with SAR, microwave radiometer and radar altimeter

Cristina Vittucci is a second-year candidate of the doctorate.

You are cordially invited to attend.

<http://www.disp.uniroma2.it/geoinformation/>