



Università Tor Vergata, Roma
Dipartimento di Informatica, Sistemi e Produzione
GeoInformation Doctorate



GeoInformation Seminar

DISP meeting room, Ingegneria dell'Informazione, 1 Via del Politecnico
18 January 2012, starting at 16:00

Yogesh Singh

Near-real time flood monitoring in Bhramaputra Flood Plains using Microwave Remote Sensing

Floods are one of the most costly of natural hazards in terms of both human lives and property damage. Moreover, the increased frequency and severity of floods is commonly cited as one of the potential risks of climate change. Improving the accuracy and lead time of flood forecasts is crucial to reduce future agricultural, social, and human costs.

In this work, AMSR-E signatures were analyzed over some critical sites in North Eastern part of India, characterized by a high frequency of flooding events. Investigations were carried out for C, X and Ka band. Obtained results were compared with water level measurements in three stations close to the main channel of the river. Fractional water surface and rain drop removal algorithms were tried. The results will be discussed in the presentation.

Yogesh Singh is working with Centre for Development of Advanced Computing(C-DAC), Govt. of India and currently on study leave to pursue his PhD at Tor Vergata University, Rome. Basically a Geology master student, his research interests include Microwave Remote Sensing and its applications for disaster management.

You are cordially invited to attend.

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