



Università Tor Vergata, Roma
Ingegneria Civile e Ingegneria Informatica
GeoInformation PhD Curriculum

10th 2013 GeoInformation Seminar

DISP meeting room, Ingegneria dell'Informazione, 1 Via del Politecnico
9 May 2013, starting at 16:00

Alireza Taravat

SAR, Hyperspectral and Multispectral techniques for hydrocarbon detection

As a major aspect of marine pollution, oil release into the sea has become a common phenomenon and it can have serious biological and economic impacts.

In recent years, remote sensing instruments have become one of the most effective methods in marine oil spill detection. Moreover, it has demonstrated to be a tool that offers a non-destructive investigation method and has a significant added value to traditional methods.

This research attempts to make use of Neural Network methods to detect oil spills using SAR, multispectral and hyperspectral images. In particular, the work investigates the robustness of neural networks in terms of accuracy for oil spill detection and discrimination against lookalike phenomena.

Alireza Taravat has received his Bachelor in Geology and his Master in Geoinformatics and at present he is pursuing his PhD in GeoInformation at Tor Vergata University, Rome.

His areas of interest include remote sensing and its applications in geological and environmental science.

You are cordially invited to attend.