



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

8th 2013 GeoInformation Seminar

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

Vasileios Kalogirou

**Monitoring post-fire vegetation in Mediterranean forests
with SAR data and theoretical modelling**

The talk will concentrate on the recent parametric study, which is performed over modelled burned Mediterranean pine forests, using the Tor Vergata microwave scattering model.

First, the model parameterisation is discussed in view of the assumptions which have been imposed. Then, the sensitivity analysis is presented for the variables of soil moisture and snag moisture. In addition the effect of burn severity is discussed, using artificial burn severity scenarios, which have been suitably constructed. The last part of the talk will concentrate on work-in-progress on the construction and analysis of hyper-temporal (20 years) SAR time-series.

Vasileios Kalogirou received his B.Sc. degree in Forestry and Natural Environment from the Aristotle University of Thessaloniki, Greece, in 2004 and his M.Sc. degree in Remote Sensing from the University College of London, U.K., in 2006.

Since 2008, he is with RSAC Ltd. working on-site the European Space Research Institute (ESRIN), Frascati, Italy. In parallel, he is currently pursuing the Ph.D. in Geoinformation at Tor Vergata University of Rome.

His main research activities are related with the monitoring of post-fire vegetation dynamics from EO sensors to support forest management.

You are cordially invited to attend.