

SEMINAR ANNOUNCEMENT

WHO: **Francesco Soldovieri**
Senior Research Scientist
Institute for Electromagnetic Sensing of the Environment
National Council of Research (CNR)
Napoli, Italy

WHAT: **Radar Imaging**

WHEN: Friday, 29 May 2015, 11:00–13:00

WHERE: Dipartimento di Ingegneria, Centro Direzionale di
Napoli, Isola C4 – Aula Savarese



Abstract — The seminar will be concerned with the recent developments in the field of radar imaging for close sensing applications of interest in several fields ranging from the security, to civil engineering diagnostics to cultural heritage monitoring to subsurface sensing. In particular, the seminar will give a brief introduction of the mathematical models at the basis of radar imaging, reinterpreted in the view of the electromagnetic scattering modeling. In this way, a discussion will be provided in order to highlight advantages and challenges related to the use of the inverse scattering approaches in conventional and new unconventional scenarios as through wall imaging, urban surveillance, imaging from airborne platforms. The intent of this seminar is to provide information to students for stimulating research activities in emerging application areas of radar imaging.

Biosketch — Francesco Soldovieri is Senior Research Scientist at IREA-CNR from 2006. He has been member of Scientific Committees and Technical Review panels for the International Conferences on Ground Penetrating Radar from 2004, for International Workshop on Advanced Ground Penetrating Radar from 2003. He was General Chair of the International Workshop on Advanced Ground Penetrating Radar 2007 that has been held in Naples, Italy and General Co-Chair at the International Conferences on Ground Penetrating Radar 2010. He is member of the Editorial Board of IEEE Geoscience and Remote Sensing Letters and of Journal of Geophysics and Engineering. He has been Technical/Scientific coordinator of the project FP7 ICT-SEC "Integrated System for Transport Infrastructures surveillance and Monitoring by Electromagnetic Sensing". He is now Coordinator of the Project FP7 IRSES Marie Curie Action "Active and Passive Microwaves for Security and Subsurface imaging (AMISS)". His actual main scientific interests include electromagnetic diagnostics, inverse scattering, GPR applications, antenna diagnostics and characterization; sea state monitoring through X-band radar images. He is co-author of more than 180 papers on national and international Journals and about 200 conference proceedings at International Conferences.

For further information, please contact
Stefano Perna: stefano.perna@uniparthenope.it
Francesco Soldovieri: soldovieri.f@irea.cnr.it