

# CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT



## INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Nome, Cognome/Name, Surname **LORENZO CROCCO**  
Indirizzo/Address **VIA SALVATORE FERRARA, 7**  
Via, numero civico, c.a.p., città, **80124 NAPOLI, ITALY**  
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Sito web/Website [www.irea.cnr.it](http://www.irea.cnr.it)  
Nazionalità/Nationality **ITA**  
Luogo e data di nascita/ Place and **Napoli, 18/02/1971**  
Date of birth

## ESPERIENZA PROFESSIONALE /WORK EXPERIENCE

- Current position: **Ricercatore – Consiglio Nazionale delle Ricerche**  
*Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA - CNR), via Diocleziano 328, Napoli, ITALY*
- 2013 - **Management Committee Member (MC Member) - COST Action TD1301**  
COST Action TD1301, MiMed "Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging".  
Italian delegate in the Management Committee
- 2013 - **Working Group Leader - COST Action TD1301**  
COST Action TD1301, MiMed "Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging".  
Leader of Working Group 2: New techniques and emerging applications for microwave imaging
- 2013 - **Lecturer – European School of Antennas (ESOA)**  
Lecturer in ESOA courses on Biological effects of electromagnetics Fields and on Microwave Imaging and diagnostics
- 2012 - **Member of the Editorial Board**  
International Journal of Antennas and Propagation, Hindawi Publishing Ltd
- 2011 - **Advisor of PhD thesis**  
Mediterranea University of Reggio Calabria  
Dr. Rosa Scapatucci New methodologies for microwave imaging in biomedical applications (2014)  
Dr. Daniele Arturi – X-band radar tracking of targets moving on the sea surface (2016)

- 2010 - **Member of the Board of the Ph.D. advisors**  
Mediterranea University of Reggio Calabria
- 2010 - **Technical Committee Member**  
IGARSS – International Geoscience and Remote Sensing Symposium  
EUCAP – European Conference on Antennas and Propagation
- 2009 - **Reviewer for National and International Scientific Projects**  
Italian Ministry of Research (PRIN 2012, FIRB 2013)  
MITACS Canada (2009)  
Cancer Care Manitoba (2010)  
US Israel BiNational Science Foundation (2012-2013)  
United Arab Emirates University (2015)
- 2007 - **Guest Editor of Special Issue**  
Guest Editor for Special Issues in several ISI, peer reviewed scientific journals (Near Surface Geophysics, Inverse Problems, IEEE JSTARS - Journal on Selected Topics in Advanced Remote Sensing, International Journal of Antennas and Propagation)
- 2007 - **Session Convener/Organizer at International Conferences**  
*IGARSS – International Geoscience and Remote Sensing Symposium*  
*EUCAP – European Conference on Antennas and Propagation*  
*PIERS – Progress in Electromagnetic Research Symposium*
- 1997 - **Advisor or Co-advisor of master thesis**  
Master thesis in Applied Electromagnetics for Laurea degree in Electrical, Telecommunication and Engineering (University Federico II of Naples, Mediterranea University of Reggio Calabria).  
More than 30 thesis
- 2011 - 2014 **WorkPackage Leader**  
AMISS - Active and Passive Microwaves for Security and Subsurface imaging  
Marie Curie Actions International Research Staff Exchange Scheme,  
Project No: 269157
- 2010 -2012 **Co-advisor of PhD thesis**  
Mediterranea University of Reggio Calabria  
Dr. Loreto Di Donato  
New paradigms and simple methods for inverse scattering problems
- 2010 - 2010 **Visiting Scientist**  
Institut Fresnel, Marseille France  
CNR-Short Mobility Program 2010
- 2008 - 2010 **Technical chairman**  
10th International Conference on Ground Penetrating Radar (endorsed by IEEE), GPR2010, Lecce, 2010
- 2009 - 2012 **Adjunct Professor**  
Mediterranea University of Reggio Calabria,  
Electromagnetic waves propagation, (2009-2011), Electromagnetic diagnostics (2011-2012).
- 2008 - 2010 **Principal Investigator for the IREA research unit**  
“MANFIND: MAgnetic Nanoparticles and Fields for Nanotechnologies and Diagnostics”  
Research Project of National Interest (PRIN)
- 2008 - 2008 **Invited Visiting Scientist**  
Institut Fresnel, Marseille, France  
invited by the Ecole Centrale Marseille as “chercheur invite”

- 2007 - 2009 **Project Consultant**  
IMAGINE: Inversion, modelling and analysis of GPR in near-surface environments funded by EPSRC Agency (UK) to Earth Science Group at Keele University (UK)
- 2006 -2008 **Co-advisor of PhD thesis**  
Mediterranea University of Reggio Calabria  
Dr. Fabrizio Cuomo  
An Effective Mesoscopic Approach for the Analysis of PBG-Based Structures and New Applications
- 2005 - 2007 **Co-chairman**  
IV International Workshop on Advanced Ground Penetrating Radar (endorsed by IEEE), IWAGPR2007, Napoli, 2007
- 2005 - 2006 **Principal Investigator and Scientific Coordinator**  
“Effective inverse scattering approaches for shape reconstruction of unknown targets” joint project with University of Naples, funded by the Regione Campania.
- 2001 - 2001 **Principal Investigator**  
Application of EM techniques to anti-personnel plastic landmines detection  
“young researchers” project – University of Naples, Federico II
- 2000 - 2001 **Post-doc Research Assistant (Assegno di ricerca)**  
University of Naples, Federico II (2000-2001). Applied Electromagnetics research group

## **ISTRUZIONE E FORMAZIONE / EDUCATION AND TRAINING**

- 1996-2000 **PhD in applied electromagnetics**  
University of Napoli, Federico II.  
Advisors: Prof. O.M.Bucci, prof. T.Isernia  
Title of thesis: “Microwave subsurface sensing: retrievable information and novel inversion approaches”  
degree at final exam: excellent  
The research activity was devoted to the development of solution approaches for both the forward and inverse scattering problems for subsurface imaging applications.
- 1989-1995 **Laurea Degree in Electronic Engineering**  
University of Napoli Federico II  
110/110 cum laude.  
achieved in March 1995

## **ATTIVITA' DI RICERCA / RESEARCH ACTIVITIES**

- Attuali campi di ricerca / Research sectors
- Applied Electromagnetics
  - Microwaves
  - Diagnostic and Therapeutic Applications of Electromagnetic Fields
  - Non-invasive electromagnetic diagnostics
  - Ground Penetrating Radars

Recenti attività scientifiche/ Recent Scientific Activities. Non-invasive electromagnetic diagnostics for environmental monitoring and biomedical imaging  
Modeling and Imaging tools for ground penetrating radar, holographic radar, bioradars, THz imaging devices, microwave radar for security;  
Methodologies for effective solution of forward and inverse electromagnetic scattering problems

Pubblicazioni/ Books and Articles Lorenzo Crocco has authored more than 80 scientific publications on international peer review journals, as well as three book chapters. He has also edited special issues on scientific journals and conference proceedings. His h-index is 25 (google scholar)  
Almost updated lists of publications can be found at:

<http://scholar.google.it/citations?user=C1zlsjMAAAAJ&hl=en>

[http://www.irea.cnr.it/index.php?option=com\\_comprofiler&task=userprofile&user=120&Itemid=100](http://www.irea.cnr.it/index.php?option=com_comprofiler&task=userprofile&user=120&Itemid=100)

**ULTERIORI INFORMAZIONI /  
ADDITIONAL INFORMATION**

- 2010** IEEE Senior Member
- 2010** Invited Speaker at the MMNS Workshop on Inverse Problems for Waves: Methods and Applications, Ecole Polytechnique, Paris, France
- 2009** National Research Council Award for the 100 best CNR young researchers (under 40), for the achievements obtained in 2005, (awarded in 2009).
- 2009** Invited Speaker at the V International Workshop on Advanced Ground Penetrating Radar, IWAGPR2009, Granada, Spain, May 2009
- 2007** Fellow of the ElectroMagnetics Academy (TEA),
- 2005** U.R.S.I. Young Scientist Award at XXVIII URSI General Assembly, New Delhi, India, 2005
- 2004** "Giorgio Barzilai" award for Young Reasearchers by the Italian Electromagnetic Society (SIEM)

**TRATTAMENTO DEI DATI  
PERSONALI, INFORMATIVA E  
CONSENSO**

Il D.Lgs. 30/6/2003, n. 196 "Codice in materia di protezione dei dati personali" regola il trattamento dei dati personali, con particolare riferimento alla riservatezza, all'identità personale e al diritto di protezione dei dati personali; l'interessato deve essere previamente informato del trattamento .

La norma in considerazione intende come "trattamento" qualunque operazione o complesso di operazioni concernenti la raccolta, la registrazione, l'organizzazione, la conservazione, la consultazione, l'elaborazione, la modifica, la selezione, l'estrazione, il raffronto, l'utilizzo, l'interconnessione, il blocco, la comunicazione, la diffusione, la cancellazione e la distruzione di dati, anche se non registrati in una banca dati.

In relazione a quanto riportato, autorizzo il CNR al trattamento dei dati contenuti nel presente *curriculum vitae* e nella documentazione della quale fa parte integrante

( *barrare la casella* )       Si, acconsento

