

Curriculum Vitae of Francesco Soldovieri

Francesco Soldovieri

Born on 27.03.1966 in Cosenza

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H-INDEX 30 (Source GOOGLE SCHOLAR) (about 200 Papers on ISI JOURNALS)

<https://scholar.google.it/citations?user=b6aoAVEAAAAJ&hl=it>

1. Main scientific responsibility for national and international research projects, selected for funding on the basis of competitive calls that provide peer review

Scientific Coordinator of the Project FP7 (Joint Call ICT-Security) "Integrated System for Transport Infrastructures Surveillance and Monitoring by Electromagnetic Sensing (ISTIMES)", July 2009-June 2012.

Scientific coordinator of the FP7 project IRSES (Marie Curie Actions) (Grant Agreement 269 157) "Active and Passive Microwaves for Security and Subsurface imaging (amiss)", October 2011-Sept. 2014.

IREA-CNR Partner Leader for the project CLARA: Cloud pLATFORM and smart underground imaging for natural Risk Assessment – PON Smart Cities National – MIUR (PON R&C 2007-2013). September 2014-September 2017.

Member of the Strategic Committee of the project "Acquasense", funded under the Industry 2015-New Technologies for the "Made in Italy"

Member of the Strategic Steering Committee of the project "Intelligent optimization of port traffic, Harbour Traffic Optimization System (HABITAT)," call PON, industrial research projects (DD n. 1 / Ric of 18 January 2010)

Responsible Planning Grant, "Multi-Sensing System for Detection of Suspicious People and Prohibited Items in Airports" for the program Science For Peace NATO-Russia, 2009.

Scientific Coordinator of the project "Monitoring Electromagnetic for structural safety of historic buildings," funded by the Campania Region as part of the Regional Law 41/94, (annuity 2000).

2. Proposals Reviewer of National and International

- Evaluator of proposals for Research Projects of National Interest, PRIN 2012, MIUR, Italy
- Evaluator of proposals to "Future Research" call, MIUR, Italy
- Evaluator of proposals for the Agence National de la Recherche, France
- Evaluator of proposals for Joint Applied Research Projects - PCCA-2011 call, Romanian (<http://uefiscdi.gov.ro/>)
- Evaluator of proposals and Rapporteur for the Joint Applied Research Projects - PCCA 2013 call, Romanian (<http://uefiscdi.gov.ro/>)
- Evaluator of proposals and Rapporteur for the HUMAN RESOURCES Programme "Young research teams" Subprogram –RUTE 20154 call, Romanian (<http://uefiscdi.gov.ro/>)
- Evaluator of proposals for the US Air Force Office of Scientific Research

3. Member of Editorial Board, Guest Editor

Member of the Editorial Boards of:

- IEEE Geoscience and Remote Sensing Letters 10/2010-present
- Journal of Geophysics and Engineering (IOP-JGE) 05/2011-today
- International Journal of Research and Reviews in Applied Sciences 02/2010-present
- Geoscientific Instrumentation, Methods and Data Systems (GI) 10 / 2010- today
- Recent Patents on Telecommunications 07/2011-today
- International Water Technology Journal

Guest Editor of the following Special Issues

Special Issue "Geophysical monitoring of the near-surface by electromagnetic and other geophysical methods" on Advances in Geosciences, vol. 19, edited by L. Eppelbaum, F. Soldovieri, November 2008.

Special Issue "GPR - Tomography, Imaging and Modeling" on Near Surface Geophysics, vol.6, no. 6, edited by L. Crocco, R. Persico, F. Soldovieri, December 2008.

Special Issue "Advanced Applications, Systems and Modeling for GPR" on Journal of Applied Geophysics, vol. 67, no. 4; edited by N. Cassidy, E. Slob, F. Soldovieri, April 2009.

Special Issue "Near surface geophysics for the study and the management of historical resources: past, present and future (EGU G19 Session 2009)", on Advances in Geosciences, vol. 24, edited by LV Eppelbaum, N. Masini, and F. Soldovieri, March 2010.

Special Issue "Near surface geophysics for the study and the management of historical resources", on the Journal of Geophysics and Engineering, edited by LV Eppelbaum, N. Masini, and F. Soldovieri, vol. 7, no. 2, June 2010

Special Issue "GPR in Archaeology", on Near Surface Geophysics, edited by N. Masini, F. Soldovieri, vol. 8, no. 5, Oct. 2010.

Special Issue on "ICT applied to Water Sector", International Water Technology Journal, vol. 1, no. June 2011 (Editors: A. Kostianoy, JF Creataux, F. Soldovieri, V. Lapenna).

Special Issue on "Non-invasive Sensing Techniques and Geophysical Methods for Cultural Heritage and Civil Infrastructures Monitoring", International Journal of Geophysics, July 2011 (Editors: F. Soldovieri, J. Dumoulin, N. Masini, E. Utsi).

Special Issue on "Ground Penetrating Radar: Modeling tools, methods and Imaging Systems Concepts", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol.4, no.4, 2011.

Special Issue on "Integrated non-invasive sensing techniques and geophysical methods for the study and conservation of architectural, archaeological and artistic heritage", Journal of Geophysics and Engineering (Editors: N. and F. Masini Soldovieri), vol. 8, Aug. 2011

Special Issue on "Ground Penetrating Radar: Modeling tools, methods and Imaging Systems Concepts", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing.

Special Issue on "Noninvasive Sensing Techniques 2012", International Journal of Geophysics Aug. 2012 (Editors: F. Soldovieri, J. Dumoulin, N. Masini, R- Solimene, and E- Utsi).

Special Issue on "Cultural heritage and civil engineering", Journal of Geophysics and Engineering, Aug. 2012, (editors: N. Masini, F. Soldovieri, M-Alvarez de Buergo, J. Dumoulin)

Special Issue on "Propagation Models and Inversion Approaches for Subsurface and Through-Wall Imaging", International Journal of Antennas and Propagation, (Editors Danilo Erricolo, Chow Weng Chew, and Francesco Soldovieri), 2012,

Special Issue on "Inverse Scattering and Microwave Tomography in Safety, Security, and Health", International Journal of Antennas and Propagation, (Editors Rocco Pierri, Jean-Charles Bolomey, Huo Qing Liu, and Francesco Soldovieri), 2013.

4. Teaching assignments or research (fellowship) official at universities and research institutes, foreign and international, highly qualified

Fellowship from University of Illinois at Chicago 09/2010 12/2010

5. Awards for scientific activity

Honorable mention for H.A. Wheeler Applications Prize Paper Award of the IEEE Antennas and Propagation Society for the work "A Two probes Phaseless Scanning Near-Field Far Field Transformation Technique", published in the issue of May 1999 of the journal IEEE Transactions on Antennas and Propagation.

Highlights 2011 of the Journal of Geophysics and Engineering for the work "Data fusion algorithms for reconstruction via different sensors in geophysical sensing" Sven Nordebo, Mats Gustafsson and Francesco Soldovieri 2011 J. Geophys. Eng. 8, S54-S60, 2011.

L.N. Anishchenko, S.I. Ivashov, F. Soldovieri, I. Catapano, L. Crocco, "COMPARISON STUDY OF TWO APPROACHES FOR DATA PROCESSING BIORADAR", awarded Best Poster at IET International Radar Conference 2013, Xi'an, China, April 2013.

Serit (Security Research in Italy) Award 2012 to the laboratory "Radar for security applications and land monitoring IREA", whose referents are Eng. Gianfranco Fornaro and Eng. Francesco Soldovieri; Laboratory

work in the domains "Technologies for crisis management & protection of people, assets and infrastructure" and "Detection & Identification systems".

Best paper award of the Journal of Geophysics and Engineering (IOP journal) for work Leucci G., R. Persico, F. Soldovieri, "Detection of fractures from GPR data: the case history of the Cathedral of Otranto", J. Geophys. Eng., Vol. 4, pp. 452-461, Dec. 2007.

6. Results obtained in technology transfer in terms of participation in the creation of new businesses (spin off), development, use and commercialization of patents

SPIN OFF

Co-founder of SPIN-OFF CNR Remocean S.R.L. (Www.remocean.com). The spin-off was founded in 2010 as a partnership between the IREA the Naples Institute for Electromagnetic Sensing of Environment, specializing in the radar data in the field of environmental monitoring, and INSEAN of Rome, a research institute with broad expertise in the field of naval and maritime.

As evidence of the validity of the project idea, Remocean received two major national awards. Indeed Remocean was the best "business idea" of South Italy in the National competition "The talent of ideas" promoted by UniCredit Group together with Territorial Committees and the Confindustria Young Entrepreneurs, in order to support the creation of new businesses (in May 2010). Remocean won the first edition of the competition "ItaliaCamp" (<http://www.italiacamp.it/>), under the patronage of the Presidency of the Council of Ministers and the European Commission Representation in Italy, making it one of the best 10 ideas for ' Italy. The award ceremony took place on 22/11/2011.

PATENTS

Inventor Patent 0001378208, (30 July 2010), Title: Method of processing data collected using synthetic aperture radar (synthetic aperture radar -SAR) and its remote sensing system.

Inventor of the European Patent (European Patent), EP2017647A1, (Jan 21, 2009). Title: Method for processing data sensed by a synthetic aperture radar (SAR) and related remote sensing system

Inventor of the Italian Patent 0001395231, (publication 2009, Grant 2012)), Title: System GPR Stepped Frequency reconfigurable

7. Invited talks and papers

- Invited paper (keynote speaker) F. Soldovieri, "Microwave tomography for radar imaging ", invited lecture at XV INTERNATIONAL CONFERENCE ON GROUND PENETRATING RADAR, Brussels, July, 2014.

- Francesco Soldovieri, "GPR: Electromagnetic Modeling and Inversion", invited speaker at GPR and Applications Workshop, Near Surface Geoscience 2012, September 2012.

- Persico, R .; Soldovieri F., "Recent issues relevant to GPR prospecting," Invited paper, Electromagnetic Theory (EMTs), 2010 URSI International Symposium on, pp.156-159, 16-19 Aug. 2010, doi: 10.1109 / URSI-EMTS.2010.5637114 .

- Invited paper (keynote speaker). F. Soldovieri, "Advanced Signal Processing, Inversion and Tomography", invited lecture at XIII INTERNATIONAL CONFERENCE ON GROUND PENETRATING RADAR, Lecce, 21-25 JUNE 2010.

- Invited paper (keynote speaker). R. Persico, F. Soldovieri, "GPR and Microwave Tomography in Archaeology and Cultural Heritage Prospecting Diagnostics", invited lecture at 19th International Geophysical Congress and Exhibition of Turkey, in November 2010, Ankara, Turkey.

- L. Lo Monte, D. Erricolo, F. Soldovieri, M.C. Wicks, "Underground Imaging of Irregular Terrains Using RF Tomography", Invited paper, The Third International Workshop on Computational Advances in Multi-Sensor Adaptive Processing, CAMSAP2009, December 13-16, 2009, Aruba, Dutch Antilles.

- F. Soldovieri, Solimene R., and R. Pierri, "A microwave tomography approach for the thru-wall imaging applications", Invited paper, Proceedings of URSI2007, Ottawa, Canada, July 2007.

8. Ph.D Advisor

Advisor of the PhD student Giovanni Ludeno, cycle XVII, PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples.

Advisor of the PhD student Claudio Mola, XXIV cycle, "Inverse problems for magnetic and electric sources" PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples. Thesis filed on November 2011.

Advisor of the PhD student Nicola Romano, XXII cycle, "DESIGN AND CHARACTERIZATION OF DIGITAL ANTENNAS reconfigurable UWB DIAGNOSTIC AND MICROWAVE RADIO FREQUENCY," PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples. Thesis submitted in November 2010

Advisor of the PhD student Aniello Buonanno, "Localization and shape reconstruction of 3D PEC objects", Cycle XXI, PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples. Thesis submitted in November 2008

Advisor of the PhD student Antonio Manna, "UWB radiating element design for electronic defense applications", XX Cycle, PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples. Thesis submitted in November 2008.

Advisor of the PhD student Giancarlo Prisco, "WB and UWB antennas in electromagnetic diagnostics for GPR applications", Cycle XVIII, PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples. Thesis submitted in November 2005.

Advisor of the PhD student Nicola Colella, "Shape reconstruction of multiple conducting objects in inhomogeneous media," Cycle XVII, PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples. Thesis submitted in November 2004.

Co-Advisor of the PhD student Francesco Tartaglione, "A tomographic approach to GPR sensing of buried objects", Cycle XVI, PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples. Thesis submitted in November 2003.

9. Main committees of conferences and organization of Special Sessions

- Reviewer for the international conference IEEE INTERNATIONAL GEOSCIENCE AND REMOTE SENSING SYMPOSIUM, IGARSS in the period from 2008 to date (7 editions)
- Member of the International Organizing Committee of the International Water Technology Conference (http://iwtc.info/?page_id=118) from 2011 to date.
- Member of the Scientific Panel of the International Workshop on Advanced Ground Penetrating Radar (IWAGPR) (every two years) in the years 2003, 2005, 2009, 2011, 2013
- Member of the Scientific Panel INTERNATIONAL CONFERENCE ON GROUND PENETRATING RADAR (every two years) in the years 2004, 2006, 2008, 2012, 2014
- General Co-chair of the "XIII INTERNATIONAL CONFERENCE ON GROUND PENETRATING RADAR" Lecce, 21-25 JUNE 2010 (Proceedings of the Conference indexed in IEEE Catalog).
- General Chair of the International Conference "4th International Workshop on Advanced Ground Penetrating Radar ", Naples, Italy, June 27-29, 2007.
- Organizer and Convener of 12 Special Sessions at the European Geophysical Union General Assembly from 2008 to now.

10. Participation in Working Groups

- He has been actively involved from the beginning to the establishment of the National Platform SERIT (Security Research in ITaly). SERIT is the Technology Platform on National Security jointly promoted by CNR and Finmeccanica which groups companies and institutions in Italy dealing with research in the field of Homeland Security. Currently the platform includes more than 250 Italian partners with over 1000 members. Under SERIT was representative of the sub-theme "Controls on the elements of a building" and the Sector Guide "Safety Built". E 'currently, coordinator of Settote Guide "Safety Integrated Cultural Heritage and built," one of the eight sectors Guide SERIT.
- Member of the Working Group "European Security Research and Innovation Forum" (WG2 Security of critical infrastructures) which aims to develop a Joint Security Research and Innovation Agenda in the medium and long term able to relate research in security with policy needs and application of the European Community.

11. Other titles

- Head of the working Group ": INT.P01.008 / Sensors and processing techniques for electromagnetic imaging in physical security applications" of the CNR.
- Member of the PhD examination committee at Electrical and Computer Engineering at the University of Illinois at Chicago (USA) for the thesis "RF Tomography for Underground Void Detection" of Dr. Lorenzo Lo Monte discussed on 15/06/2009
- Member of the PhD examination committee at Electrical and Computer Engineering at the University of Illinois at Chicago (USA) for the thesis "Dyadic CONTRAST QUADRATIC FUNCTION AND FORWARD MODEL FOR RADIO FREQUENCY Tomography" Dr. Vittorio discussed the peak in May 2014
- Member of the Academic Board of the PhD in Electronic Engineering at the Department of Information Engineering of the Second University of Naples since 2006.

- Tutor of research grants from the National Research Council in matters of Electromagnetic Fields
- Co-supervisor of several dissertations three years, specialist, and masterful old system (SSD ING-INF / 02)

12. Membership

- Senior Member of the Institute of Electrical and Electronic Engineers (IEEE)
- Member of the Italian Society of Electromagnetism (SIEM)
- Member of the National Consortium for Telecommunications (CNIT). Responsible of Research Unit at IREA-CNR since 01/2014
- Member of the National Centre for Interuniversity Research on Interactions between Electromagnetic Fields and Biosystems (ICEMB)