

Francesco F Soldovieri

List of Publications by Year in descending order

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334
papers

6,863
citations

66343

42
h-index

95266

68
g-index

340
all docs

340
docs citations

340
times ranked

3800
citing authors

#	ARTICLE	IF	CITATIONS
1	Contactless Ground Penetrating Radar Imaging: State of the art, challenges, and microwave tomography-based data processing. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 251-273.	9.6	30
2	An Approximation of 2-D Inverse Scattering Problems From a Convex Optimization Perspective. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	0
3	Multilines Imaging Approach for Mini-UAV Radar Imaging System. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	11
4	The Use of GPR and Microwave Tomography for the Assessment of the Internal Structure of Hollow Trees. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	10
5	The Role of Model Dimensionality in Linear Inverse Scattering from Dielectric Objects. Remote Sensing, 2022, 14, 222.	4.0	1
6	Assessing the role of clay and salts on the origin of MARSIS basal bright reflections. Earth and Planetary Science Letters, 2022, 579, 117370.	4.4	15
7	CW Doppler Radar as Occupancy Sensor: A Comparison of Different Detection Strategies. Frontiers in Signal Processing, 2022, 2, .	1.7	3
8	24 GHz FMCW MIMO Radar for Marine Target Localization: A Feasibility Study. IEEE Access, 2022, 10, 68240-68256.	4.2	6
9	Numerical simulations of radar echoes rule out basal CO2 ice deposits at Ultimi Scopuli, Mars. Icarus, 2022, 386, 115163.	2.5	4
10	A Ground Penetrating Radar Imaging Approach for a Heterogeneous Subsoil With a Vertical Permittivity Gradient. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5698-5710.	6.3	6
11	Multiple subglacial water bodies below the south pole of Mars unveiled by new MARSIS data. Nature Astronomy, 2021, 5, 63-70.	10.1	127
12	Preface to the special issue on "Integration of space and in-situ techniques: a new paradigm for the monitoring and surveillance". Remote Sensing of Environment, 2021, 253, 112192.	11.0	1
13	An Advanced Approach to the Long Term SHM of Structures and Transport Infrastructures. Lecture Notes in Civil Engineering, 2021, , 373-388.	0.4	1
14	Joint Interpretation of Geophysical Results and Geological Observations for Detecting Buried Active Faults: The Case of the "Lago" Plain (Pettoranello del Molise, Italy). Remote Sensing, 2021, 13, 1555.	4.0	6
15	TeraHertz inspections of painted steel samples. , 2021, , .		0
16	Transport Infrastructure SHM Using Integrated SAR Data and On-Site Vibrational Acquisitions: "Ponte Della Musica" Armando Trovajoli Case Study. Applied Sciences (Switzerland), 2021, 11, 6504.	2.5	15
17	Stratigraphy versus artefacts in the Chang'e-4 low-frequency radar. Nature Astronomy, 2021, 5, 890-893.	10.1	10
18	Down-Looking Airborne Radar Imaging Performance: The Multi-Line and Multi-Frequency. Remote Sensing, 2021, 13, 4897.	4.0	1

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19	On the Combined Use of Ground Penetrating Radar and Crack Meter Sensors for Structural Monitoring: Application to the Historical Consoli Palace in Gubbio, Italy. <i>Surveys in Geophysics</i> , 2020, 41, 647-667.	4.6	16
20	The Discovery of a Buried Temple in Paestum: The Advantages of the Geophysical Multi-Sensor Application. <i>Remote Sensing</i> , 2020, 12, 2711.	4.0	7
21	Assessing the Internal Structure of Hollow Trees Using GPR and Microwave Tomography. , 2020, , .		0
22	Cultural Heritage Monitoring via GPR Enhanced by Microwave Tomography. , 2020, , .		0
23	Small-UAV Radar Imaging System Performance with GPS and CDGPS Based Motion Compensation. <i>Remote Sensing</i> , 2020, 12, 3463.	4.0	13
24	Editorial for Special Issue "Radar Imaging in Challenging Scenarios from Smart and Flexible Platforms" <i>Remote Sensing</i> , 2020, 12, 1272.	4.0	8
25	Full 3-D Imaging of Vertical Structures via Ground-Penetrating Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8857-8873.	6.3	9
26	GPR and ERT Investigations in Urban Areas: the Case-Study of Matera (Southern Italy). <i>Remote Sensing</i> , 2020, 12, 1879.	4.0	11
27	Guest Editorial: Recent Advances in Non-destructive Testing Methods. <i>Surveys in Geophysics</i> , 2020, 41, 365-369.	4.6	4
28	CNR's Fincantieri Joint Projects: A Successful Example of Collaboration between Research and Industry Based on the Open Innovation Approach. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2020, 6, 15.	5.2	1
29	Small Multicopter-UAV-Based Radar Imaging: Performance Assessment for a Single Flight Track. <i>Remote Sensing</i> , 2020, 12, 774.	4.0	15
30	The Moon's farside shallow subsurface structure unveiled by Chang'e-4 Lunar Penetrating Radar. <i>Science Advances</i> , 2020, 6, eaay6898.	10.3	103
31	Radio Frequency Tomography for Nondestructive Testing of Pillars. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3916-3926.	6.3	18
32	A Comparison of Linear Inverse Scattering Models for Contactless GPR Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 7305-7316.	6.3	26
33	Radar detection of subglacial water under the south polar cap of Mars: Where are we now?. , 2020, , .		0
34	The UAV radar imaging prototype developed in the frame of the VESTA project. , 2020, , .		4
35	The ASI Integrated Sounder-SAR System Operating in the UHF-VHF Bands: First Results of the 2018 Helicopter-Borne Morocco Desert Campaign. <i>Remote Sensing</i> , 2019, 11, 1845.	4.0	14
36	Applying Ground-Penetrating Radar and Microwave Tomography Data Processing in Cultural Heritage: State of the Art and Future Trends. <i>IEEE Signal Processing Magazine</i> , 2019, 36, 53-61.	5.6	31

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37	The Use of Ground Penetrating Radar and Microwave Tomography for the Detection of Decay and Cavities in Tree Trunks. Remote Sensing, 2019, 11, 2073.	4.0	15
38	A low frequency airborne GPR system for wide area geophysical surveys: The case study of Morocco Desert. Remote Sensing of Environment, 2019, 233, 111409.	11.0	17
39	The ASI P-Band Helicopter-Borne Integrated Sounder-Sar System: Preliminary Results of The 2018 Morocco Desert Campaign. , 2019, , .		2
40	Liquid Water Detection under the South Polar Layered Deposits of Marsâ€™a Probabilistic Inversion Approach. Remote Sensing, 2019, 11, 2445.	4.0	7
41	Radar for indoor surveillance: state of art and perspectives. , 2019, , .		9
42	Normalized Scalar Product Approach for Nearshore Bathymetric Estimation From X-Band Radar Images: An Assessment Based on Simulated and Measured Data. IEEE Journal of Oceanic Engineering, 2018, 43, 221-237.	3.8	15
43	Assessment of a micro-UAV system for microwave tomography radar imaging. Remote Sensing of Environment, 2018, 212, 90-102.	11.0	38
44	Doppler Radar for Real-Time Surveillance. , 2018, , .		2
45	Three-dimensional Advanced Tomographic Procedure for the Imaging of Metallic and Dielectric Targets through GPR Data. , 2018, , .		1
46	A Controlled-Site Comparison of Microwave Tomography and Time-Reversal Imaging Techniques for GPR Surveys. Remote Sensing, 2018, 10, 214.	4.0	3
47	A Microwave Tomography Strategy for Underwater Imaging via Ground Penetrating Radar. Remote Sensing, 2018, 10, 1410.	4.0	15
48	GPR surveys for soil and structural investigations at Gubbio town, Italy. , 2018, , .		1
49	Radar evidence of subglacial liquid water on Mars. Science, 2018, 361, 490-493.	12.6	346
50	Heritageâ€™An Open Access Journal of Knowledge, Conservation, and Management of Cultural and Natural Heritage. Heritage, 2018, 1, 45-46.	1.9	0
51	Structural Assessment via Ground Penetrating Radar at the Consoli Palace of Gubbio (Italy). Remote Sensing, 2018, 10, 45.	4.0	28
52	Proof of Feasibility of the Sea State Monitoring from Data Collected in Medium Pulse Mode by a X-Band Wave Radar System. Remote Sensing, 2018, 10, 459.	4.0	5
53	Improvement of Ground Penetrating Radar (GPR) Data Interpretability by an Enhanced Inverse Scattering Strategy. Surveys in Geophysics, 2018, 39, 1069-1079.	4.6	4
54	Forward-Looking Radar Imaging: A Comparison of Two Data Processing Strategies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 562-571.	4.9	31

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55	X-Band Wave Radar for Coastal Upwelling Detection off the Southern Coast of Sicily. Journal of Atmospheric and Oceanic Technology, 2017, 34, 21-31.	1.3	16
56	Reconstruction Capabilities of Down-Looking Airborne GPRs: The Single Frequency Case. IEEE Transactions on Computational Imaging, 2017, 3, 917-927.	4.4	14
57	Corrections to "A Novel Approach Based on Marine Radar Data Analysis for High-Resolution Bathymetry Map Generation" [Jan 14 234-238]. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 584-584.	3.1	1
58	Integrated In Situ Investigations for the Restoration: The Case of Regio VIII in Pompeii. Geotechnologies and the Environment, 2017, , 557-586.	0.3	3
59	Proof of concept of micro-UAV-based radar imaging. , 2017, , .		19
60	An approximated imaging approach for GPR surveys with antennas far from the interface. , 2017, , .		0
61	THz Imaging as a Method to Detect Defects of Aeronautical Coatings. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1264-1277.	2.2	21
62	A strategy for an accurate estimation of the basal permittivity in the Martian North Polar Layered Deposits. Geophysical Prospecting, 2017, 65, 891-900.	1.9	2
63	A Data Processing Chain for Terahertz Imaging and Its Use in Artwork Diagnostics. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 518-530.	2.2	17
64	Coupling of Wave Data and Underwater Acoustic Measurements in a Maritime High-Traffic Coastal Area: A Case Study in the Strait of Sicily. Journal of Atmospheric and Oceanic Technology, 2017, 34, 2589-2599.	1.3	3
65	Two-Dimensional Linear Inversion of GPR Data with a Shifting Zoom along the Observation Line. Remote Sensing, 2017, 9, 980.	4.0	12
66	Metrological Characterization for Vital Sign Detection by a Bioradar. Remote Sensing, 2017, 9, 996.	4.0	7
67	Editorial for Special Issue "Radar Systems for the Societal Challenges" Remote Sensing, 2017, 9, 1284.	4.0	0
68	Inverse Source Data-Processing Strategies for Radio-Frequency Localization in Indoor Environments. Sensors, 2017, 17, 2469.	3.8	2
69	A joint thermal and electromagnetic diagnostics approach for the inspection of thick walls. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 81-92.	1.6	1
70	Integrated Monitoring at a Modern Architectural Masterpiece: The Case of Viaduct Basento in Potenza. Geotechnologies and the Environment, 2017, , 499-514.	0.3	2
71	A Comparison between Drifter and X-Band Wave Radar for Sea Surface Current Estimation. Remote Sensing, 2016, 8, 695.	4.0	12
72	Exploitation of Ubiquitous Wi-Fi Devices as Building Blocks for Improvised Motion Detection Systems. Sensors, 2016, 16, 307.	3.8	12

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73	Detection and Characterization of Ship Targets Using CryoSat-2 Altimeter Waveforms. Remote Sensing, 2016, 8, 193.	4.0	6
74	Real-Time Through-Wall Situation Awareness Using a Microwave Doppler Radar Sensor. Remote Sensing, 2016, 8, 621.	4.0	46
75	EFFECTS OF BACKGROUND REMOVAL IN GPR MICROWAVE TOMOGRAPHY FOR ARCHAEOLOGICAL AND FORENSIC STUDIES. , 2016, , .		0
76	Measurements Performance of a Bioradar for Human Respiration Monitoring. Procedia Engineering, 2016, 168, 1200-1203.	1.2	6
77	Experimental validation of Radio Frequency Tomography for an inhomogeneous medium. , 2016, , .		2
78	Majolica imaging with THz waves: preliminary results. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	10
79	An integrated geophysical approach for water infiltration detection and characterization at Monte Cotugno rock-fill dam (southern Italy). Engineering Geology, 2016, 211, 162-170.	6.3	53
80	Comparative Analysis of Two Approaches for Multipath Ghost Suppression in Radar Imaging. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1226-1230.	3.1	27
81	Microwave tomography and unconventional GPR measurement configurations: Review of the performance analysis and examples. , 2016, , .		1
82	Performances of a Microwave Tomographic Algorithm for GPR Systems Working in Differential Configuration. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1343-1356.	4.9	9
83	Performance Analysis of Incoherent RF Tomography Using Wireless Sensor Networks. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2722-2732.	6.3	13
84	Three-Dimensional Through-Wall Sensing of Moving Targets Using Passive Multistatic Radars. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 141-148.	4.9	14
85	Microwave Tomography-Enhanced GPR in Forensic Surveys: The Case Study of a Tropical Environment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 115-124.	4.9	23
86	Effect of the height of the observation line on the the diffraction curve in GPR prospecting. Near Surface Geophysics, 2015, 13, 243-252.	1.2	28
87	On the reconstruction capabilities of microwave tomography imaging. , 2015, , .		0
88	About single block with receiver and frequency-meter in Terahertz band at the base of Josephson junction. , 2015, , .		0
89	A quadratic RF Tomography inverse model for reflection configuration. , 2015, , .		2
90	Evaluation of rodentsâ€™ respiratory activity using a bioradar. IET Radar, Sonar and Navigation, 2015, 9, 1296-1302.	1.8	19

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91	Josephson generation is good for pixel in the array of passive imaging system. , 2015, , .		0
92	Detection and imaging of cracks in reinforced concrete structures using RF tomography: Quadratic forward model approach. , 2015, , .		1
93	Implementation of an advanced tomographic algorithm for GPR realistic sounding. , 2015, , .		0
94	Monte Cotugno Dam Monitoring by the Electrical Resistivity Tomography. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5346-5351.	4.9	18
95	On the Reconstruction Capabilities of Beamforming and a Microwave Tomographic Approach. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2369-2373.	3.1	13
96	Passive Multiarray Image Fusion for RF Tomography by Opportunistic Sources. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 641-645.	3.1	16
97	On the singular spectrum of radiation operators in the non-reactive zone: the case of strip sources. Journal of Optics (United Kingdom), 2015, 17, 025605.	2.2	13
98	On the Achievable Imaging Performance in Full 3-D Linear Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2015, 63, 1150-1155.	5.1	37
99	Experimental Validation of the Quadratic Forward Model for RF Tomography. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1461-1465.	3.1	7
100	A new method towards traffic flow control by millimeter wave radiometers. , 2015, , .		0
101	An X-Band Radar System for Bathymetry and Wave Field Analysis in a Harbour Area. Sensors, 2015, 15, 1691-1707.	3.8	36
102	Integrated geophysical techniques for sustainable management of water resource. A case study of local dry bean versus commercial common bean cultivars. Agricultural Water Management, 2015, 162, 57-66.	5.6	17
103	Multipath Ghosts in Radar Imaging: Physical Insight and Mitigation Strategies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1078-1086.	4.9	68
104	Forward-Looking Ground-Penetrating Radar via a Linear Inverse Scattering Approach. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5624-5633.	6.3	42
105	Multiple Extended Target Tracking for Through-Wall Radars. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6482-6494.	6.3	61
106	A quadratic inverse model for RF tomography. , 2015, , .		1
107	An advanced numerical imaging procedure for GPR shallow surveys. , 2015, , .		0
108	Analysis of a 2D microwave tomography algorithm applied to a differential configuration in GPR prospecting. , 2015, , .		0

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109	GPR measurement campaign in the hill town of San Gimignano (Italy). , 2015, , .		1
110	Microwave tomography in archaeology and cultural heritage applications: A review. , 2015, , .		2
111	THz imaging and spectroscopy: First experiments and preliminary results. , 2015, , .		7
112	Microwave tomography enhanced Forward Looking GPR: A feasibility analysis. , 2014, , .		1
113	A Comparative Study of GPR Reconstruction Approaches for Landmine Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4869-4878.	4.9	44
114	A customized numerical procedure for accurate target reconstruction through GPR surveys. , 2014, , .		0
115	GPR data analysis enhanced by microwave tomography for forensic archaeology. , 2014, , .		5
116	GPR prospecting on circular surfaces: preliminary results. , 2014, , .		4
117	RF tomography under the quadratic approximation. , 2014, , .		3
118	Application of step-frequency radars in medicine. , 2014, , .		14
119	Experimentation of a tomographic technique on envisat radar altimetry data: Oil platforms as an opportunity target. , 2014, , .		0
120	A comparison between two measurement configurations for full 3D GPR imaging. , 2014, , .		0
121	The Effect of Array Configuration in Transmission-Mode Electromagnetic Imaging. IEEE Transactions on Antennas and Propagation, 2014, 62, 5148-5156.	5.1	6
122	Quadratic forward model for RF tomography: Preliminary results. , 2014, , .		1
123	Effective imaging systems based on periodic lattices. Applied Physics Letters, 2014, 104, .	3.3	4
124	Radar Imaging Through Cinderblock Walls: Achievable Performance by a Model-Corrected Linear Inverse Scattering Approach. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6738-6749.	6.3	20
125	Estimation of Soil Permittivity in Presence of Antenna-Soil Interactions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 805-812.	4.9	10
126	Ground Clutter Removal in GPR Surveys. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 792-798.	4.9	91

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127	A Novel Approach Based on Marine Radar Data Analysis for High-Resolution Bathymetry Map Generation. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 234-238.	3.1	26
128	X-Band Marine Radar System for High-Speed Navigation Purposes: A Test Case on a Cruise Ship. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 244-248.	3.1	21
129	Comparison of two differential GPR systems for imaging objects under a reflection configuration. , 2014, , .		1
130	Remocean System for the Detection of the Reflected Waves from the Costa Concordia Ship Wreck. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3011-3018.	4.9	29
131	Full three-dimensional imaging via ground penetrating radar: assessment in controlled conditions and on field for archaeological prospecting. Applied Physics A: Materials Science and Processing, 2014, 115, 1415-1422.	2.3	15
132	Radar Imaging Through a Building Corner. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6750-6761.	6.3	23
133	Performance Assessment of a Microwave Tomographic Approach for the Forward Looking Radar Configuration. Sensing and Imaging, 2014, 15, 1.	1.5	9
134	SAR Imaging Algorithms and Some Unconventional Applications: A unified mathematical overview. IEEE Signal Processing Magazine, 2014, 31, 90-98.	5.6	89
135	Design and Validation of a Multimode Multifrequency VHF/UHF Airborne Radar. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1260-1264.	3.1	12
136	Oil spill monitoring via microwave tomography enhanced GPR surveys. Journal of Applied Geophysics, 2014, 108, 95-103.	2.1	15
137	GPR-4D monitoring a controlled LNAPL spill in a masonry tank at USP, Brazil. Journal of Applied Geophysics, 2014, 103, 237-244.	2.1	20
138	Tomographic airborne ground penetrating radar imaging: Achievable spatial resolution and on-field assessment. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 92, 69-78.	11.1	11
139	An improved tomographic approach for accurate target reconstruction from GPR numerical data. , 2014, , .		2
140	GPR and ERT combined analysis on the basis of advanced wavelet methodology: The Montagnole testing area. , 2013, , .		1
141	The effect of the height of the GPR antennas on the diffraction curve. , 2013, , .		1
142	Radar for vital signs characterization: A comparison between two different frequency band systems. , 2013, , .		2
143	Experimental results of a microwave tomography approach applied to a differential measurement configuration. , 2013, , .		1
144	A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. IEEE Sensors Journal, 2013, 13, 1857-1864.	4.7	180

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145	A Linear Inverse Scattering Algorithm for Radar Imaging in Multipath Environments. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1085-1089.	3.1	56
146	Full 3-D electromagnetic subsurface imaging using ground penetrating radar. , 2013, , .		1
147	Diffacted waves from the aground Costa Concordia cruise and detected by the Remocean system. , 2013, , .		1
148	Comparison study of two approaches for bioradar data processing. , 2013, , .		4
149	Generation of bathymetric maps with high resolution through the analysis of nautical X-band radar images. , 2013, , .		1
150	A new combined wavelet methodology: implementation to GPR and ERT data obtained in the Montagnole experiment. Journal of Geophysics and Engineering, 2013, 10, 025017.	1.4	18
151	Ground penetrating radar and microwave tomography for the safety management of a cultural heritage site: Miletos Ilyas Bey Mosque (Turkey). Journal of Geophysics and Engineering, 2013, 10, 064007.	1.4	11
152	Fisher information analysis in electrical impedance tomography. Journal of Geophysics and Engineering, 2013, 10, 064008.	1.4	2
153	Safety issues in cultural heritage management and critical infrastructures management. Journal of Geophysics and Engineering, 2013, 10, 060201.	1.4	0
154	RF/Microwave Imaging of Sparse Targets in Urban Areas. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 643-646.	4.0	29
155	Inverse Scattering and Microwave Tomography in Safety, Security, and Health. International Journal of Antennas and Propagation, 2013, 2013, 1-2.	1.2	0
156	GPR ESTIMATION OF THE GEOMETRICAL FEATURES OF BURIED METALLIC TARGETS IN TESTING CONDITIONS. Progress in Electromagnetics Research B, 2013, 49, 339-362.	1.0	14
157	Radiometric Imaging for Monitoring and Surveillance Issues. International Journal of Antennas and Propagation, 2013, 2013, 1-8.	1.2	3
158	3D Imaging of Buried Dielectric Targets with a Tomographic Microwave Approach Applied to GPR Synthetic Data. International Journal of Antennas and Propagation, 2013, 2013, 1-10.	1.2	13
159	Tomographic GPR imaging using a linear inversion algorithm informed by FDTD modelling: a numerical case study of buried utility pipes monitoring. Near Surface Geophysics, 2013, 11, 221-230.	1.2	5
160	Analysis of Water Pollution by a Microwave Cavity Sensor. Sensor Letters, 2013, 11, 1561-1566.	0.4	1
161	Pseudo 3D Imaging of Dielectric and Magnetic Anomalies from GPR Data. International Journal of Geophysics, 2012, 2012, 1-5.	1.1	2
162	Noninvasive Sensing Techniques 2012. International Journal of Geophysics, 2012, 2012, 1-2.	1.1	0

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163	Analysis of nautical X-band radar images for the generation of bathymetric map by the NSP method. , 2012, , .		1
164	Tomographic imaging of holographic GPR data for non-invasive structural assessment: the Musmeci bridge investigation. Nondestructive Testing and Evaluation, 2012, 27, 229-237.	2.1	4
165	Tunnel detection and localisation via multi-monostatic radio frequency tomography using magnetic sources. IET Radar, Sonar and Navigation, 2012, 6, 834-845.	1.8	8
166	Microwave tomography enhanced GPR surveys in Centaurâ€™s Domus, Regio VI of Pompeii, Italy. Journal of Geophysics and Engineering, 2012, 9, S92-S99.	1.4	14
167	Sparse Tomographic Inverse Scattering Approach for Through-the-Wall Radar Imaging. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 3340-3350.	4.7	20
168	Cultural heritage and civil engineering. Journal of Geophysics and Engineering, 2012, 9, .	1.4	1
169	Imaging Below Irregular Terrain Using RF Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3364-3373.	6.3	24
170	Integrated non invasive tests for the architectural restoration of the Tricarico Cathedral. , 2012, , .		1
171	Shape reconstruction of scatterers by suitable inverse processing of GPR data. , 2012, , .		2
172	Utilities mapping via Linear Sampling Method. , 2012, , .		1
173	A Novel CS-TSVD Strategy to Perform Data Reduction in Linear Inverse Scattering Problems. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 881-885.	3.1	27
174	Integrated use of GPR and TDR for soil permittivity evaluation. , 2012, , .		0
175	REMOCEAN: A Flexible X-Band Radar System for Sea-State Monitoring and Surface Current Estimation. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 822-826.	3.1	32
176	Understanding targetâ€™like signals in coastal altimetry: Experimentation of a tomographic imaging technique. Geophysical Research Letters, 2012, 39, .	4.0	11
177	Structural monitoring via microwave tomography-enhanced GPR: the Montagnole test site. Journal of Geophysics and Engineering, 2012, 9, S100-S107.	1.4	15
178	A Feasibility Study for Life Signs Monitoring via a Continuous-Wave Radar. International Journal of Antennas and Propagation, 2012, 2012, 1-5.	1.2	12
179	Propagation Models and Inversion Approaches for Subsurface and Through-Wall Imaging. International Journal of Antennas and Propagation, 2012, 2012, 1-2.	1.2	2
180	Imaging of Scarce Archaeological Remains Using Microwave Tomographic Depictions of Ground Penetrating Radar Data. International Journal of Antennas and Propagation, 2012, 2012, 1-8.	1.2	3

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181	A Comprehensive Forward Model for Imaging under Irregular Terrain Using RF Tomography. International Journal of Antennas and Propagation, 2012, 2012, 1-15.	1.2	9
182	Electromagnetic Sensing Techniques for Non-Destructive Diagnosis of Civil Engineering Structures. , 2012, , .		2
183	Dielectric constant estimation of the uppermost Basal Unit layer in the martian Boreales Scopuli region. Icarus, 2012, 219, 458-467.	2.5	23
184	A Tomographic Approach for Helicopter-Borne Ground Penetrating Radar Imaging. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 378-382.	3.1	45
185	Using FDTD modelling to inform the tomographic imaging of buried utility pipes via GPR investigation. , 2011, , .		3
186	Combination of Advanced Inversion Techniques for an Accurate Target Localization via GPR for Demining Applications. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 451-461.	6.3	71
187	DETERMINATION OF THE FRESNEL REFLECTION COEFFICIENT OF A HALF-SPACE FOR MEDIUM ESTIMATION PURPOSES. Progress in Electromagnetics Research B, 2011, 27, 61-82.	1.0	2
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