Marco Martorella

List of Publications by Year
in descending order

58 papers	1,252 citations	430874 18 h-index	434195 31 g-index
58 all docs	58 docs citations	58 times ranked	691 citing authors

#	Article	IF	Citations
1	Inverse Synthetic Aperture Radar Imaging: Principles, Algorithms and Applications. , 2014, , .		188
2	3D interferometric ISAR imaging of noncooperative targets. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 3102-3114.	4.7	103
3	Passive ISAR With DVB-T Signals. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4508-4517.	6.3	77
4	A Contrast-Based Algorithm For Synthetic Range-Profile Motion Compensation. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3053-3062.	6.3	76
5	Compressive sensingâ€"based algorithm for passive bistatic ISAR with DVB-T signals. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2166-2180.	4.7	59
6	Compressive sensingâ€based inverse synthetic radar imaging imaging from incomplete data. IET Radar, Sonar and Navigation, 2016, 10, 386-397.	1.8	55
7	Classification of Man-Made Targets via Invariant Coherency-Matrix Eigenvector Decomposition of Polarimetric SAR/ISAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3022-3034.	6.3	52
8	ISAR Image Resolution Enhancement: Compressive Sensing Versus State-of-the-Art Super-Resolution Techniques. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1983-1997.	4.7	51
9	Lossless and Sufficient Psi -Invariant Decomposition of Random Reciprocal Target. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3487-3501.	6.3	37
10	Bistatic three-dimensional interferometric ISAR image reconstruction. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 951-961.	4.7	36
11	Polarimetrically-Persistent-Scatterer-Based Automatic Target Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4588-4599.	6.3	35
12	Multiview Three-Dimensional Interferometric Inverse Synthetic Aperture Radar. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 718-733.	4.7	35
13	Threeâ€dimensional inverse synthetic aperture radar imaging based on compressive sensing. IET Radar, Sonar and Navigation, 2015, 9, 411-420.	1.8	30
14	A Survey on the Applications of Convolutional Neural Networks for Synthetic Aperture Radar: Recent Advances. IEEE Aerospace and Electronic Systems Magazine, 2022, 37, 18-42.	1.3	30
15	Bistatic threeâ€dimensional interferometric ISAR. IET Radar, Sonar and Navigation, 2016, 10, 63-75.	1.8	24
16	Multifunction imaging passive radar for harbour protection and navigation safety. IEEE Aerospace and Electronic Systems Magazine, 2017, 32, 30-38.	1.3	22
17	Efficient Nonparametric ISAR Autofocus Algorithm Based on Contrast Maximization and Newtonâ€™s Method. IEEE Sensors Journal, 2021, 21, 4474-4487.	4.7	21
18	Bistatically equivalent monostatic approximation for bistatic ISAR. , 2013, , .		20

#	Article	IF	Citations
19	Space–Doppler adaptive processing for radar imaging of moving targets masked by ground clutter. IET Radar, Sonar and Navigation, 2015, 9, 712-726.	1.8	19
20	Intereferometric phase and target motion estimation for accurate 3D reflectivity reconstruction in ISAR systems. , 2010, , .		18
21	Virtual multichannel SAR for ground moving target imaging. IET Radar, Sonar and Navigation, 2016, 10, 50-62.	1.8	18
22	Compressive sensing for interferometric inverse synthetic aperture radar applications. IET Radar, Sonar and Navigation, 2016, 10, 1446-1457.	1.8	16
23	Automatic Target Recognition Based on Alignments of Three-Dimensional Interferometric ISAR Images and CAD Models. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4872-4888.	4.7	15
24	Estimation of the total rotational velocity of a non–cooperative target with a high cross–range resolution three–dimensional interferometric inverse synthetic aperture radar system. IET Radar, Sonar and Navigation, 2017, 11, 1020-1029.	1.8	14
25	Pattern Coupled Sparse Bayesian Learning Based on UTAMP for Robust High Resolution ISAR Imaging. IEEE Sensors Journal, 2020, 20, 13734-13742.	4.7	13
26	Near Field Physical Optics modelling for Concealed Weapon Detection. IEEE Transactions on Antennas and Propagation, 2012, 60, 6052-6057.	5.1	12
27	Extended Openmax Approach for the Classification of Radar Images With a Rejection Option. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 196-208.	4.7	12
28	Simulation of X-band polarimetric weather radar returns based on the Weather Research and Forecast model. , 2011, , .		11
29	Three–dimensional ISAR imaging: a review. Journal of Engineering, 2019, 2019, 6823-6828.	1.1	10
30	X-band compact low cost multi-channel radar prototype for short range high resolution 3D-InISAR. , 2014, , .		9
31	Incoherent fusion of 3D InISAR images using multi-temporal and multi-static data. , 2016, , .		9
32	Bistatic ISAR Distortion Mitigation via Superresolution. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2143-2157.	4.7	9
33	RRSARNet: A Novel Network for Radar Radio Sources Adaptive Recognition. IEEE Transactions on Vehicular Technology, 2021, 70, 11483-11498.	6.3	9
34	Practical implementation of the spectrogram–inverse Radon transform based algorithm for resident space objects parameter estimation. IET Science, Measurement and Technology, 2019, 13, 1254-1259.	1.6	9
35	Estimation of the total rotational velocity of a non-cooperative target using a 3D InISAR system. , 2015, , .		8
36	3D ISAR/SAR imaging using multichannel real data. , 2016, , .		8

#	Article	IF	Citations
37	Equivalence Between Cameron's Unit Disc and PoincarÃ‰'s Sphere for Symmetric Scattering Characterization and Classification. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 152-156.	3.1	7
38	Clutter Suppression and High-Resolution Imaging of Noncooperative Ground Targets for Bistatic Airborne Radar. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 932-949.	4.7	7
39	Circular Scan ISAR Mode Super-Resolution Imaging of Ships Based on a Combination of Data Extrapolation and Compressed Sensing. IEEE Sensors Journal, 2019, 19, 6883-6894.	4.7	7
40	Electronic countermeasure for OFDMâ€‹based imaging passive radars. IET Radar, Sonar and Navigation, 2019, 13, 1458-1467.	1.8	7
41	Polarimetric phase gradient autofocus. , 2007, , .		6
42	ISAR image sequence based Automatic Target Recognition by using a Multi-Frame Marked Point Process model. , 2011, , .		6
43	Passive 3D interferometric ISAR using targetâ€‹borne illuminator of opportunity. IET Radar, Sonar and Navigation, 2019, 13, 190-197.	1.8	6
44	High-range resolution multichannel DVB-T passive radar: aerial target detection. International Journal of Microwave and Wireless Technologies, 2012, 4, 147-153.	1.9	5
45	Space-Doppler processing for multichannel ISAR imaging of non-cooperative targets embedded in strong clutter. , 2013, , .		5
46	Inverse Radon transform scaling via spin rate estimation for resident space object size assessment. IET Radar, Sonar and Navigation, 2019, 13, 900-905.	1.8	5
47	Ground Moving Target Imaging via SDAP-ISAR Processing: Review and New Trends. Sensors, 2021, 21, 2391.	3.8	5
48	Super-resolution for bistatic distortion mitigation. , 2016, , .		4
49	Optimal sensor positioning for ISAR imaging. , 2010, , .		3
50	Enhanced ATR by jointly using Coherent and Incoherent Target Decomposition theorems on polarimetric ISAR images. , 2014, , .		2
51	Multi-sensor multi-target tracking based on range-Doppler measurement. International Journal of Microwave and Wireless Technologies, 2016, 8, 615-622.	1.9	2
52	Experimental Comparison of Radon Domain Approaches for Resident Space Objectâ€™s Parameter Estimation. Sensors, 2021, 21, 1298.	3.8	2
53	Examination of cost functions for multistatic image quality based autofocus. , 2013, , .		1
54	Optimal CPI selection based on Doppler Spread and Image Contrast. , 2018, , .		1

#	Article	IF	Citations
55	Progress on the Study for the Use of Long-Range Radars for Space Situational Awareness. , 2020, , .		1
56	Passive 3D InISAR Using Target-Borne Illuminator of Opportunity. , 2018, , .		0
57	Bistatic and Multistatic Radar Imaging. , 2019, , .		0
58	A Parametric-Model-Based Approach for Atmospheric Phase Screen Removal in Ground-Based Interferometric SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 889-900.	4.9	0