

Ali Cafer Gurbuz

List of Publications by Year in descending order

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107
papers

1,855
citations

430442

18
h-index

329751

37
g-index

109
all docs

109
docs citations

109
times ranked

1442
citing authors

#	ARTICLE	IF	CITATIONS
1	A Compressive Sensing Data Acquisition and Imaging Method for Stepped Frequency GPRs. IEEE Transactions on Signal Processing, 2009, 57, 2640-2650.	3.2	269
2	Analysis of Energy Efficiency of Compressive Sensing in Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 1999-2008.	2.4	139
3	Compressive sensing for subsurface imaging using ground penetrating radar. Signal Processing, 2009, 89, 1959-1972.	2.1	122
4	High Spatio-Temporal Resolution CYGNSS Soil Moisture Estimates Using Artificial Neural Networks. Remote Sensing, 2019, 11, 2272.	1.8	113
5	Multistatic Ground-Penetrating Radar Experiments. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2544-2553.	2.7	103
6	A compressive beamforming method. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	98
7	Machine Learning-Based CYGNSS Soil Moisture Estimates over ISMN sites in CONUS. Remote Sensing, 2020, 12, 1168.	1.8	82
8	Knowledge Exploitation for Human Micro-Doppler Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2125-2129.	1.4	66
9	Bearing Estimation via Spatial Sparsity using Compressive Sensing. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 1358-1369.	2.6	65
10	A robust compressive sensing based technique for reconstruction of sparse radar scenes. , 2014, 27, 23-32.		51
11	Perturbed Orthogonal Matching Pursuit. IEEE Transactions on Signal Processing, 2013, 61, 6220-6231.	3.2	48
12	Compressive wireless arrays for bearing estimation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	46
13	Compressive Sensing for GPR Imaging. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	41
14	Evaluations of Machine Learning-Based CYGNSS Soil Moisture Estimates against SMAP Observations. Remote Sensing, 2020, 12, 3503.	1.8	41
15	American Sign Language Recognition Using RF Sensing. IEEE Sensors Journal, 2020, , 1-1.	2.4	37
16	Ground Reflection Removal in Compressive Sensing Ground Penetrating Radars. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 23-27.	1.4	34
17	Quasi-global machine learning-based soil moisture estimates at high spatio-temporal scales using CYGNSS and SMAP observations. Remote Sensing of Environment, 2022, 276, 113041.	4.6	28
18	Autofocused Spotlight SAR Image Reconstruction of Off-Grid Sparse Scenes. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1880-1892.	2.6	22

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19	An Internet-Inspired Proportional Fair EV Charging Control Method. IEEE Systems Journal, 2019, 13, 4292-4302.	2.9	19
20	Seismic Tunnel Imaging and Detection. , 2006, , .		17
21	SAR image reconstruction by expectation maximization based matching pursuit. , 2015, 37, 75-84.		17
22	Off-Grid Aware Channel and Covariance Estimation in mmWave Networks. IEEE Transactions on Communications, 2020, 68, 3908-3921.	4.9	17
23	Determination of Background Distribution for Ground-Penetrating Radar Data. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 544-548.	1.4	16
24	Compressive sensing of underground structures using GPR. , 2012, 22, 66-73.		15
25	Classification of human micro-Doppler in a radar network. , 2013, , .		15
26	Simulation of human micro-Doppler signatures with Kinect sensor. , 2014, , .		14
27	A CubeSat Train for Radar Sounding and Imaging of Antarctic Ice Sheet. , 2018, , .		14
28	Joint Learning of Measurement Matrix and Signal Reconstruction via Deep Learning. IEEE Transactions on Computational Imaging, 2020, 6, 818-829.	2.6	14
29	Investigation of the detection of shallow tunnels using electromagnetic and seismic waves. , 2007, , .		13
30	ASL Trigger Recognition in Mixed Activity/Signing Sequences for RF Sensor-Based User Interfaces. IEEE Transactions on Human-Machine Systems, 2022, 52, 699-712.	2.5	13
31	Compressive sensing of parameterized shapes in images. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	12
32	Sparse ground-penetrating radar imaging method for off-the-grid target problem. Journal of Electronic Imaging, 2013, 22, 021007.	0.5	12
33	Learning EV Integration Impact on a Low Voltage Distribution Grid. , 2018, , .		12
34	A multi-static ground-penetrating radar with an array of resistively loaded vee dipole antennas for landmine detection. , 2005, , .		10
35	Passive direction finding using amplitude and phase comparison techniques. , 2014, , .		10
36	Off-grid sparse SAR image reconstruction by EMMP algorithm. , 2013, , .		9

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37	Multi-aspect angle classification of human radar signatures. Proceedings of SPIE, 2013, , .	0.8	9
38	Radar simulation of human micro-Doppler signature from video motion capture data. , 2013, , .		9
39	Sparse Channel Estimation in Millimeter-Wave Communications via Parameter Perturbed OMP. , 2018, , .		9
40	Integration of Smartphones Into Small Unmanned Aircraft Systems to Sense Water in Soil by Using Reflected GPS Signals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1048-1059.	2.3	9
41	Multi-Frequency RF Sensor Fusion for Word-Level Fluent ASL Recognition. IEEE Sensors Journal, 2022, 22, 11373-11381.	2.4	9
42	Combined Ground Penetrating Radar and Seismic System for Detecting Tunnels. , 2006, , .		8
43	Performance Analysis of Compressive-Sensing-Based Through-the-Wall Imaging with Effect of Unknown Parameters. International Journal of Antennas and Propagation, 2012, 2012, 1-11.	0.7	8
44	Cramerâ€™s Rao Lower Bound for SoOp-R-Based Root-Zone Soil Moisture Remote Sensing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6101-6114.	2.3	8
45	Attention-Based Domain Adaptation Using Residual Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6424-6433.	2.3	8
46	Analysis of unknown velocity and target off the grid problems in compressive sensing based subsurface imaging. , 2011, , .		7
47	Expectation maximization based matching pursuit. , 2012, , .		7
48	Hybrid phase amplitude direction finding method. , 2015, , .		6
49	Online calibration of Modulated Wideband Converter. , 2016, , .		6
50	Multifunctional reconfigurable antennas for cognitive radars. , 2018, , .		6
51	Cognitive Radar Target Detection and Tracking With Multifunctional Reconfigurable Antennas. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 64-76.	2.3	6
52	Analysis of compressive sensing based through the wall imaging. , 2012, , .		5
53	Sparse delay-Doppler image reconstruction under off-grid problem. , 2014, , .		5
54	On the Feasibility of Smartphone-based Interferometric GNSS Reflectometry. , 0, , .		5

#	ARTICLE	IF	CITATIONS
55	Subsurface target imaging using a multi-resolution 3D quadtree algorithm. , 2005, 5794, 1172.		4
56	Application of multistatic inversion algorithms to landmine detection. , 2006, , .		4
57	GPR Imaging Using Compressed Measurements. , 2008, , .		4
58	A new OMP technique for sparse recovery. , 2012, , .		4
59	Compressed sensing based hyperspectral unmixing. , 2014, , .		4
60	Detecting Curved Underground Tunnels using Partial Radon Transforms. , 2007, , .		3
61	Real-time frequency parameter extraction for electronic support systems. , 2016, , .		3
62	Data Driven Measurement Matrix Learning for Sparse Reconstruction. , 2019, , .		3
63	SCoBi Multilayer: A Signals of Opportunity Reflectometry Model for Multilayer Dielectric Reflections. Remote Sensing, 2020, 12, 3480.	1.8	3
64	Compressed Classification from Learned Measurements. , 2021, , .		3
65	Imaging of Subsurface Targets Using a 3D Quadtree Algorithm. , 0, , .		2
66	Feature Detection in Highly Noisy Images using Random Sample Theory. , 2007, , .		2
67	Shape detection in images exploiting sparsity. , 2009, , .		2
68	Development of a stepped frequency GPR prototype. , 2013, , .		2
69	Automatic human activity classification using radar. , 2014, , .		2
70	3D imaging for ground-penetrating radars via dictionarydimension reduction. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 1242-1256.	0.9	2
71	Real-time pulse compression radar waveform generation and digital matched filtering. , 2015, , .		2
72	Assessment of Interpolation Errors of CYGNSS Soil Moisture Estimations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, , 1-1.	2.3	2

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73	Cognitive radar utilizing multifunctional reconfigurable antennas. , 2018, , .		2
74	Seismic Imaging and Detection of Underground Tunnels. , 0, , .		1
75	Predicting GPR target locations using time delay differences. , 2006, , .		1
76	Detection of linear and planar structures in 3D subsurface images by iterative dimension reduction. , 2010, 20, 391-400.		1
77	Sparsity enhanced fast subsurface imaging with GPR. , 2010, , .		1
78	Through the wall imaging with Compressive Sensing and effects of unknown parameters to the performance. , 2012, , .		1
79	Radar simulation of different human activities via Kinect. , 2014, , .		1
80	Analysis of frequency modulated continuous wave signals using time-frequency domain shape features. , 2014, , .		1
81	Analysis of sparsity based joint SAR image reconstruction and autofocus techniques. , 2015, , .		1
82	SAR image reconstruction with joint off-grid target and phase error corrections. , 2015, , .		1
83	Sparsity based robust Stretch Processing. , 2015, , .		1
84	Real-time multiple velocity false target generation in digital radio frequency memory. , 2016, , .		1
85	Off-Grid Aware Spatial Covariance Estimation in mmWave Communications. , 2019, , .		1
86	CRLB based mode selection and enhanced DOA estimation for multifunctional reconfigurable arrays. Physical Communication, 2020, 38, 100894.	1.2	1
87	Compressive sensing based robust off-grid stretch processing. IET Radar, Sonar and Navigation, 2017, 11, 1730-1735.	0.9	1
88	Data Driven Learning of Constrained Measurement Matrices for Signal Reconstruction. , 2021, , .		1
89	Locating Subsurface Targets Using Minimal GPR Measurements. , 0, , .		0
90	Detecting Features using Random Sample Theory. , 2007, , .		0

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91	Feature Detection in Images by Adaptive Random Sampling. , 2007, , .		0
92	Sparsity enhanced fast subsurface imaging for stepped frequency GPRs. , 2010, , .		0
93	Analysis of required measurement number in compressive sensing. , 2010, , .		0
94	Surface reflection removal in compressed sensing GPR and sparse subsurface imaging. , 2011, , .		0
95	Demosaicking with compressive sensing. , 2012, , .		0
96	Efficiency of Compressive Sensing on the lifetime of Wireless Sensor Networks. , 2012, , .		0
97	Recognition of stagger pulse repetition interval for electronic support systems. , 2012, , .		0
98	Compressive sensing based target detection in delay-Doppler radars. , 2013, , .		0
99	Energy and lifetime analysis of compressed Wireless Sensor Network communication. , 2013, , .		0
100	A recursive way for sparse reconstruction of parametric spaces. , 2014, , .		0
101	A recursive approach to reconstruction of sparse signals. , 2014, , .		0
102	Finding sparse parametric shapes from low number of imase measurements. , 2015, , .		0
103	Non-Linear junction detectors: Experimental performance analysis. , 2015, , .		0
104	Hyperspectral target detection - An experimental study. , 2015, , .		0
105	Learning to Sense and Reconstruct A Class of Signals. , 2019, , .		0
106	Adaptive measurement design for direction of arrival estimation and target tracking. , 2018, , .		0
107	Perturbation based sparse subspace clustering. , 2018, , .		0