

Birsen YazÄ±cÄ±

List of Publications by Year in descending order

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72
papers

1,103
citations

331259

21
h-index

433756

31
g-index

72
all docs

72
docs citations

72
times ranked

582
citing authors

#	ARTICLE	IF	CITATIONS
1	A Spectral Estimation Framework for Phase Retrieval via Bregman Divergence Minimization. SIAM Journal on Imaging Sciences, 2022, 15, 491-520.	1.3	3
2	Passive Moving Target Imaging via Generalized Wirtinger Flow. , 2022, , .		0
3	Unrolled Wirtinger Flow With Deep Decoding Priors for Phaseless Imaging. IEEE Transactions on Computational Imaging, 2022, 8, 609-625.	2.6	4
4	Phase-Space Function Recovery for Moving Target Imaging in SAR by Convex Optimization. IEEE Transactions on Computational Imaging, 2021, 7, 1018-1030.	2.6	2
5	Deep Learning based Phaseless SAR without Born Approximation. , 2021, , .		0
6	Passive Multistatic Radar Imaging with Prior Information. , 2021, , .		3
7	A Deterministic Theory for Exact Non-Convex Phase Retrieval. IEEE Transactions on Signal Processing, 2020, 68, 4612-4626.	3.2	10
8	Exact Multistatic Interferometric Imaging via Generalized Wirtinger Flow. IEEE Transactions on Computational Imaging, 2020, 6, 711-726.	2.6	12
9	Deep Learning for Direct Automatic Target Recognition from SAR Data. , 2019, , .		9
10	Deep learning for waveform estimation and imaging in passive radar. IET Radar, Sonar and Navigation, 2019, 13, 915-926.	0.9	9
11	Analysis of Artifacts in SAR Imagery Due to Fluctuation in Refractive Index. IEEE Transactions on Computational Imaging, 2019, 5, 450-464.	2.6	2
12	A Generalization of Wirtinger Flow for Exact Interferometric Inversion. SIAM Journal on Imaging Sciences, 2019, 12, 2119-2164.	1.3	10
13	Deep Learning for Passive Synthetic Aperture Radar. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 90-103.	7.3	45
14	Doppler synthetic aperture radar interferometry: a novel SAR interferometry for height mapping using ultra-narrowband waveforms. Inverse Problems, 2018, 34, 055003.	1.0	4
15	Doppler-DPCA and Doppler-ATI: Novel SAR Modalities for Imaging of Moving Targets Using Ultra-Narrowband Waveforms. IEEE Transactions on Computational Imaging, 2018, 4, 125-136.	2.6	11
16	Phaseless Passive Synthetic Aperture Radar Imaging via Wirtinger Flow. , 2018, , .		4
17	Generalized wirtinger flow for passive polarimetric reconstruction of extended dipole targets. , 2018, , .		2
18	Passive phaseless SAR imaging. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	Deep learning for waveform estimation in passive synthetic aperture radar. , 2018, , .		1
20	Effects of fluctuation in refractive index of atmosphere on synthetic aperture radar images. , 2017, , .		1
21	Layover Analysis in Synthetic Aperture Imagery. SIAM Journal on Imaging Sciences, 2017, 10, 1033-1068.	1.3	2
22	Passive polarimetric multistatic radar for ground moving target. , 2016, , .		8
23	Moving Target Artifacts in Bistatic Synthetic Aperture Radar Images. IEEE Transactions on Computational Imaging, 2015, 1, 30-43.	2.6	27
24	Passive synthetic aperture radar imaging based on low-rank matrix recovery. , 2015, , .		7
25	Passive Synthetic Aperture Radar Imaging Using Low-Rank Matrix Recovery Methods. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1570-1582.	7.3	32
26	Passive imaging with multistatic polarimetric radar. , 2015, , .		6
27	Antenna motion errors in bistatic SAR imagery. Inverse Problems, 2015, 31, 065001.	1.0	9
28	Bistatic Doppler-SAR DPCA imaging of ground moving targets. , 2014, , .		5
29	Bistatic Synthetic Aperture Radar Imaging of Moving Targets Using Ultra-Narrowband Continuous Waveforms. SIAM Journal on Imaging Sciences, 2014, 7, 824-866.	1.3	28
30	Joint-Scatterer Processing for Time-Series InSAR. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7205-7221.	2.7	39
31	Passive Synthetic Aperture Hitchhiker Imaging of Ground Moving Targetsâ€™Part 1: Image Formation and Velocity Estimation. IEEE Transactions on Image Processing, 2014, 23, 2487-2500.	6.0	27
32	Light Illumination and Detection Patterns for Fluorescence Diffuse Optical Tomography Based on Compressive Sensing. IEEE Transactions on Image Processing, 2014, 23, 2609-2624.	6.0	22
33	Passive Synthetic Aperture Hitchhiker Imaging of Ground Moving Targetsâ€™Part 2: Performance Analysis. IEEE Transactions on Image Processing, 2014, 23, 4126-4138.	6.0	19
34	Ground Moving Target Imaging Using Ultranarrowband Continuous Wave Synthetic Aperture Radar. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4893-4910.	2.7	30
35	Passive imaging of a non-cooperative moving RF emitter using sparsely distributed receivers. , 2013, , .		1
36	Ground moving target imaging using bi-static synthetic aperture radar. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
37	Theory of Passive Synthetic Aperture Imaging. Applied and Numerical Harmonic Analysis, 2013, , 211-236.	0.1	7
38	Preconditioning of the fluorescence diffuse optical tomography sensing matrix based on compressive sensing. Optics Letters, 2012, 37, 4326.	1.7	26
39	Polarimetric SAR imaging for extended targets in clutter. , 2012, , .		0
40	Bistatic Synthetic Aperture Radar Imaging Using UltraNarrowband Continuous Waveforms. IEEE Transactions on Image Processing, 2012, 21, 3673-3686.	6.0	36
41	Passive Imaging of Moving Targets Using Sparse Distributed Apertures. SIAM Journal on Imaging Sciences, 2012, 5, 769-808.	1.3	37
42	Passive radar imaging of moving targets in multiple-scattering environments using sparse distributed apertures. , 2012, , .		0
43	Passive imaging of moving targets exploiting multiple scattering using sparse distributed apertures. Inverse Problems, 2012, 28, 125009.	1.0	26
44	Detection and imaging of multiple ground moving targets using ultra-narrowband continuous-wave SAR. Proceedings of SPIE, 2012, , .	0.8	4
45	Ultrawide-band synthetic aperture radar imaging for arbitrary flight trajectories. , 2011, , .		2
46	Passive imaging of moving targets with sparsely distributed receivers. , 2011, , .		2
47	Bistatic Synthetic Aperture Radar imaging using ultrawide-band continuous waveforms. , 2011, , .		12
48	Synthetic aperture inversion with sparsity constraints. , 2011, , .		1
49	Doppler-Hitchhiker: A Novel Passive Synthetic Aperture Radar Using Ultrawideband Sources of Opportunity. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3521-3537.	2.7	46
50	Doppler synthetic aperture radar imaging. , 2011, , .		1
51	Computationally efficient FBP-type direct segmentation of synthetic aperture radar images. , 2011, , .		7
52	Discretization Error Analysis and Adaptive Meshing Algorithms for Fluorescence Diffuse Optical Tomography: Part I. IEEE Transactions on Medical Imaging, 2010, 29, 217-229.	5.4	14
53	Born expansion and Fréchet derivatives in nonlinear Diffuse Optical Tomography. Computers and Mathematics With Applications, 2010, 59, 3377-3397.	1.4	16
54	Passive imaging exploiting multiple scattering using distributed apertures. , 2010, , .		0

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55	Passive imaging using distributed apertures in multiple-scattering environments. Inverse Problems, 2010, 26, 065002.	1.0	32
56	Doppler synthetic aperture hitchhiker imaging. Inverse Problems, 2010, 26, 065006.	1.0	43
57	Passive synthetic aperture radar imaging with single frequency sources of opportunity. , 2010, , .		4
58	Direct Reconstruction of Pharmacokinetic-Rate Images of Optical Fluorophores From NIR Measurements. IEEE Transactions on Medical Imaging, 2009, 28, 1337-1353.	5.4	43
59	Synthetic Aperture Hitchhiker Imaging. IEEE Transactions on Image Processing, 2008, 17, 2156-2173.	6.0	61
60	Doppler Synthetic Aperture Hitchhiker imaging. , 2008, , .		0
61	Bistatic Synthetic Aperture Radar Imaging for Arbitrary Flight Trajectories. IEEE Transactions on Image Processing, 2008, 17, 84-93.	6.0	87
62	Inversion of Circular Averages using the Funk Transform. , 2007, , .		3
63	Bistatic Synthetic Aperture Hitchhiker Imaging. , 2007, , .		6
64	Bistatic Synthetic Aperture Radar Imaging for Arbitrary Flight Trajectories and Non-flat Topography. IEEE National Radar Conference - Proceedings, 2007, , .	0.0	9
65	Adaptive mesh generation for diffuse optical tomography (Invited Paper). , 2007, , .		0
66	Euclidean motion group representations and the singular value decomposition of the Radon transform. Integral Transforms and Special Functions, 2007, 18, 59-76.	0.8	6
67	Waveform design for distributed aperture using Gram-Schmidt orthogonalization. , 2007, , .		0
68	Synthetic-aperture inversion in the presence of noise and clutter. Inverse Problems, 2006, 22, 1705-1729.	1.0	66
69	Kalman filtering for self-similar processes. Signal Processing, 2006, 86, 760-775.	2.1	10
70	Extended Kalman Filtering for the Modeling and Analysis of ICG Pharmacokinetics in Cancerous Tumors Using NIR Optical Methods. IEEE Transactions on Biomedical Engineering, 2006, 53, 1861-1871.	2.5	48
71	Development of a simulator for radiographic image optimization. Computer Methods and Programs in Biomedicine, 2005, 78, 179-190.	2.6	29
72	Breast tissue characterization using FARMA modeling of ultrasonic RF echo. Ultrasound in Medicine and Biology, 2004, 30, 1397-1407.	0.7	17