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List of Publications by Year
in descending order

85 papers	2,256 citations	471509 17 h-index	580821 25 g-index
85 all docs	85 docs citations	85 times ranked	1892 citing authors

#	Article	IF	Citations
1	Approximate Message Passing With Parameter Estimation for Heavily Quantized Measurements. IEEE Transactions on Signal Processing, 2022, 70, 2062-2077.	5.3	2
2	Joint Down-Range and Cross-Range RFI Suppression in Ultra-Wideband SAR. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3136-3149.	6.3	10
3	Bayesian Massive MIMO Channel Estimation with Parameter Estimation Using Low-Resolution ADCs. , 2021, , .		2
4	Deep Learning to Obtain Simultaneous Image and Segmentation Outputs From a Single Input of Raw Ultrasound Channel Data. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2493-2509.	3.0	68
5	Detection and Confirmation of Multiple Human Targets Using Pixel-Wise Code Aperture Measurements. Journal of Imaging, 2020, 6, 40.	3.0	15
6	Real-Time and Deep Learning Based Vehicle Detection and Classification Using Pixel-Wise Code Exposure Measurements. Electronics (Switzerland), 2020, 9, 1014.	3.1	23
7	Spectral Gaps Extrapolation for Stepped-Frequency SAR via Generative Adversarial Networks. , 2019, , .		4
8	JOBS: Joint-Sparse Optimization from Bootstrap Samples. , 2019, , .		0
9	Deep Learning-Based Target Tracking and Classification for Low Quality Videos Using Coded Aperture Cameras. Sensors, 2019, 19, 3702.	3.8	25
10	A Comparison of Compression Codecs for Maritime and Sonar Images in Bandwidth Constrained Applications. Computers, 2019, 8, 32.	3.3	12
11	A Generative Adversarial Neural Network for Beamforming Ultrasound Images : Invited Presentation. , 2019, , .		34
12	Deep CNN for Extraction of Sidelobes from SAR Imagery in Spectrally Restricted Environment. , 2019, , .		1
13	A minimally invasive lens-free computational microendoscope. Science Advances, 2019, 5, eaaw5595.	10.3	52
14	Sparse Signal Recovery via Generalized Entropy Functions Minimization. IEEE Transactions on Signal Processing, 2019, 67, 1322-1337.	5.3	35
15	Linear Disentangled Representation Learning for Facial Actions. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3539-3544.	8.3	12
16	Sparse Coding and Autoencoders. , 2018, , .		6
17	A Deep Learning Based Alternative to Beamforming Ultrasound Images. , 2018, , .		53
18	Recovery of UWB Radar Signals in Spectrally Restricted Environments. , 2018, , .		1

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19	A Greedy Pursuit Algorithm for Separating Signals from Nonlinear Compressive Observations. , 2018, , .		0
20	Generative adversarial networks for recovering missing spectral information. , 2018, , .		5
21	Interference separation for UWB radar signals from entropy-driven robust PCA. , 2017, , .		7
22	A provable nonconvex model for factoring nonnegative matrices. , 2017, , .		0
23	Sparse signal recovery using generalized approximate message passing with built-in parameter estimation. , 2017, , .		8
24	Segmentation of thalamus from MR images via task-driven dictionary learning. , 2016, 9784, .		0
25	Radio frequency interference suppression in ultra-wideband synthetic aperture radar using range-azimuth sparse and low-rank model. , 2016, , .		23
26	Sparse signal recovery based on nonconvex entropy minimization. , 2016, , .		5
27	Dimensionality reduction for image classification via mutual information maximization. , 2016, , .		0
28	RFI-radar signal separation via simultaneous low-rank and sparse recovery. , 2016, , .		28
29	Partial face recognition: A sparse representation-based approach. , 2016, , .		11
30	Design of a Digital Address-Event Triggered Compressive Acquisition Image Sensor. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 191-199.	5.4	12
31	Efficient and Robust RFI Extraction Via Sparse Recovery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2104-2117.	4.9	59
32	Iterative Convex Refinement for Sparse Recovery. IEEE Signal Processing Letters, 2015, 22, 1903-1907.	3.6	33
33	Interpretable exemplar-based shape classification using constrained sparse linear models. Proceedings of SPIE, 2015, 9413, .	0.8	0
34	High-speed compressed sensing measurement using spectrally-encoded ultrafast laser pulses. , 2015, , .		3
35	CMOS implementation of pixel-wise coded exposure imaging for insect-based sensor node. , 2015, , .		4
36	Ultrawideband RF compressed sensing using spectrally-encoded ultrafast laser pulses. , 2015, , .		0

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37	Radio-frequency interference separation and suppression from ultrawideband radar data via low-rank modeling. , 2014, , .		12
38	A dictionary learning algorithm for multi-channel neural recordings. , 2014, , .		11
39	Robust Transmit Nulling in Wideband Arrays. IEEE Transactions on Signal Processing, 2014, 62, 3706-3719.	5.3	17
40	Structured Priors for Sparse-Representation-Based Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1235-1239.	3.1	92
41	Abundance Estimation for Bilinear Mixture Models via Joint Sparse and Low-Rank Representation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4404-4423.	6.3	88
42	Sparse models and sparse recovery for ultra-wideband SAR applications. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 940-958.	4.7	56
43	Energy-efficient two-stage Compressed Sensing method for implantable neural recordings. , 2013, , .		8
44	Reconstruction of neural action potentials using signal dependent sparse representations. , 2013, , .		6
45	Robust Lasso With Missing and Grossly Corrupted Observations. IEEE Transactions on Information Theory, 2013, 59, 2036-2058.	2.4	66
46	Exact Recoverability From Dense Corrupted Observations via ℓ_{1}-Minimization. IEEE Transactions on Information Theory, 2013, 59, 2017-2035.	2.4	83
47	Discriminative sparse representations with applications. , 2013, , .		0
48	Hierarchical sparse modeling using Spike and Slab priors. , 2013, , .		8
49	Discriminative graphical models for sparsity-based hyperspectral target detection. , 2012, , .		3
50	Real Time Compressive Sensing Video Reconstruction in Hardware. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2012, 2, 604-615.	3.6	12
51	Kernel sparse representation for hyperspectral target detection. , 2012, , .		9
52	Hyperspectral image classification via kernel sparse representation. , 2011, , .		33
53	Random projection as dimensionality reduction and its effect on classical target recognition and anomaly detection techniques. , 2011, , .		0
54	Sparse Representation for Target Detection in Hyperspectral Imagery. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 629-640.	10.8	339

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55	Simultaneous Joint Sparsity Model for Target Detection in Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 676-680.	3.1	137
56	Video error concealment using sparse recovery and local dictionaries. , 2011, , .		4
57	Error concealment via 3-mode tensor approximation. , 2011, , .		4
58	Stepwise Optimal Subspace Pursuit for Improving Sparse Recovery. IEEE Signal Processing Letters, 2011, 18, 27-30.	3.6	29
59	Sparsity-based face recognition using discriminative graphical models. , 2011, , .		2
60	Video concealment via matrix completion at high missing rates. , 2010, , .		6
61	Fast dimension reduction through random permutation. , 2010, , .		1
62	Sparse coding for speech recognition. , 2010, , .		53
63	Sparsity-based classification of hyperspectral imagery. , 2010, , .		10
64	Robust face recognition using locally adaptive sparse representation. , 2010, , .		21
65	Classification for hyperspectral imagery based on sparse representation. , 2010, , .		21
66	A fast and efficient heuristic nuclear-norm algorithm for affine rank minimization. , 2009, , .		2
67	A fast and efficient algorithm for low rank matrix recovery from incomplete observations. , 2009, , .		0
68	Fast and efficient dimensionality reduction using Structurally Random Matrices. , 2009, , .		6
69	Implementation and application of local computation of wavelet coefficients in the dual-tree complex wavelets. , 2009, , .		3
70	Distributed compressed video sensing. , 2009, , .		53
71	Rational Coefficient Dual-Tree Complex Wavelet Transform: Design and Implementation. IEEE Transactions on Signal Processing, 2008, 56, 3523-3534.	5.3	17
72	Sparsity adaptive matching pursuit algorithm for practical compressed sensing. , 2008, , .		359

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73	Lifting-based Laplacian Pyramid reconstruction schemes. , 2008, , .		5
74	Local computation and estimation of wavelet coefficients in the dual-tree complex wavelet transform. , 2008, , .		2
75	Fast compressive sampling with structurally random matrices. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	96
76	Optical Flow Approximation of Sub-Pixel Accurate Block Matching for Video Coding. , 2007, , .		13
77	Discrete-Time Dithering Technique for Designing Time-Varying Signal Adapted Filter Banks. , 2007, , .		1
78	Paraunitary Filter Bank Design using Derivative Constraints. , 2007, , .		0
79	An 8ï¿½8 IEEE-Compliant Lifting-Based Multiplierless IDCT Structure and Algorithm. , 2007, , .		3
80	General Reconstruction of Laplacian Pyramid and its Dual Frame Solutions. , 2007, , .		1
81	Rate-Distortion Analysis of Multiplierless Lifting-based IDCT Approximations. , 2007, , .		2
82	Fast 16-bit Fixed-Point 8x8 IDCT Approximations. , 2006, , .		1
83	Multiplierless Design of Biorthogonal Dual-Tree Complex Wavelet Transform using Lifting Scheme. , 2006, , .		6
84	A More Efficient and Video Friendly Spatial Resizing Algorithm. , 2006, , .		1
85	Adaptive pre- and post-filtering for block based systems. , 2002, , .		1