Raja Giryes

List of Publications by Year
in descending order

80 papers	2,092 citations	279798 23 h-index	276875 41 g-index
80 all docs	80 docs citations	80 times ranked	1882 citing authors

#	Article	IF	Citations
1	Learning Camera Control in Dynamic Scenes from Limited Demonstrations. Computer Graphics Forum, 2022, 41, 427-437.	3.0	0
2	Image Restoration by Deep Projected GSURE. , 2022, , .		3
3	Shallow Transitsâ€”Deep Learning. II. Identify Individual Exoplanetary Transits in Red Noise using Deep Learning. Astronomical Journal, 2022, 163, 237.	4.7	0
4	A Self Supervised StyleGAN for Image Annotation and Classification With Extremely Limited Labels. IEEE Transactions on Medical Imaging, 2022, 41, 3509-3519.	8.9	5
5	Taco-VC: A Single Speaker Tacotron based Voice Conversion with Limited Data. , 2021, , .		3
6	Online Training of Stereo Self-Calibration Using Monocular Depth Estimation. IEEE Transactions on Computational Imaging, 2021, 7, 812-823.	4.4	5
7	Separable Joint Blind Deconvolution and Demixing. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 657-671.	10.8	1
8	DEGAS: differentiable efficient generator search. Neural Computing and Applications, 2021, 33, 17173-17184.	5.6	6
9	NICE: Noise Injection and Clamping Estimation for Neural Network Quantization. Mathematics, 2021, 9, 2144.	2.2	7
10	An Interpretation Of Regularization By Denoising And Its Application With The Back-Projected Fidelity Term. , 2021, , .		0
11	MetAdapt: Meta-learned task-adaptive architecture for few-shot classification. Pattern Recognition Letters, 2021, 149, 130-136.	4.2	8
12	BP-DIP: A Backprojection based Deep Image Prior. , 2021, , .		5
13	On the Convergence Rate of Projected Gradient Descent for a Back-Projection Based Objective. SIAM Journal on Imaging Sciences, 2021, 14, 1504-1531.	2.2	2
14	Generalizing CoSaMP to signals from a union of low dimensional linear subspaces. Applied and Computational Harmonic Analysis, 2020, 49, 99-122.	2.2	7
15	Face Authentication From Grayscale Coded Light Field. , 2020, , .		1
16	Image-Adaptive GAN Based Reconstruction. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3121-3129.	4.9	28
17	Corrections to â€œDeep Neural Networks With Random Gaussian Weights: A Universal Classification Strategy?â€•[Jul 1, 2016 3444-3457]. IEEE Transactions on Signal Processing, 2020, 68, 529-531.	5.3	0
18	Correction Filter for Single Image Super-Resolution: Robustifying Off-the-Shelf Deep Super-Resolvers. , 2020, , .		42

#	Article	IF	Citations
19	Detecting Adversarial Samples Using Influence Functions and Nearest Neighbors. , 2020, , .		57
20	Separable Optimization for Joint Blind Deconvolution and Demixing. , 2020, , .		0
21	Back-Projection Based Fidelity Term for Ill-Posed Linear Inverse Problems. IEEE Transactions on Image Processing, 2020, 29, 6164-6179.	9.8	32
22	On Divergence Approximations for Unsupervised Training of Deep Denoisers Based on Steinâ€™s Unbiased Risk Estimator. , 2020, , .		2
23	Efficient Least Residual Greedy Algorithms for Sparse Recovery. IEEE Transactions on Signal Processing, 2020, 68, 3707-3722.	5.3	4
24	Supervised and Unsupervised Learning of Parameterized Color Enhancement. , 2020, , .		14
25	Sparse recovery methodologies for quasi-distributed dynamic strain sensing. JPhys Photonics, 2020, 2, 024002.	4.6	0
26	Fiber-optic distributed seismic sensing data generator and its application for training classification nets. Optics Letters, 2020, 45, 1834.	3.3	10
27	Motion deblurring using spatiotemporal phase aperture coding. Optica, 2020, 7, 1332.	9.3	10
28	TOP-GAN: Stain-free cancer cell classification using deep learning with a small training set. Medical Image Analysis, 2019, 57, 176-185.	11.6	90
29	Efficient Processing of Distributed Acoustic Sensing Data Using a Deep Learning Approach. Journal of Lightwave Technology, 2019, 37, 4755-4762.	4.6	49
30	Deep Radar Detector. , 2019, , .		58
31	A Greedy Approach to $ell_{0,infty}$-Based Convolutional Sparse Coding. SIAM Journal on Imaging Sciences, 2019, 12, 186-210.	2.2	3
32	Super-Resolution via Image-Adapted Denoising CNNs: Incorporating External and Internal Learning. IEEE Signal Processing Letters, 2019, 26, 1080-1084.	3.6	44
33	Lautum Regularization for Semi-Supervised Transfer Learning. , 2019, , .		4
34	Image Restoration by Iterative Denoising and Backward Projections. IEEE Transactions on Image Processing, 2019, 28, 1220-1234.	9.8	129
35	DeepISP: Toward Learning an End-to-End Image Processing Pipeline. IEEE Transactions on Image Processing, 2019, 28, 912-923.	9.8	144
36	Generalization Error in Deep Learning. Applied and Numerical Harmonic Analysis, 2019, , 153-193.	0.3	44

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37	Utilizing the sparsity of quasi-distributed sensing systems for sub-Nyquist signal reconstruction. , 2019, , .		1
38	Spatio-Temporal Coded Imaging for Motion Deblurring. , 2019, , .		1
39	Tradeoffs Between Convergence Speed and Reconstruction Accuracy in Inverse Problems. IEEE Transactions on Signal Processing, 2018, 66, 1676-1690.	5.3	42
40	Shallow Transitsâ€"Deep Learning. I. Feasibility Study of Deep Learning to Detect Periodic Transits of Exoplanets. Astronomical Journal, 2018, 155, 147.	4.7	57
41	An Iterative Denoising and Backwards Projections Method and its Advantages for Blind Deblurring. , 2018, , .		6
42	Deep Learning Approach for Processing Fiber-Optic DAS Seismic Data. , 2018, , .		27
43	Task-Driven Dictionary Learning based on Convolutional Neural Network Features. , 2018, , .		0
44	Matching Pursuit Based Convolutional Sparse Coding. , 2018, , .		5
45	Learned Convolutional Sparse Coding. , 2018, , .		61
46	The Learned Inexact Project Gradient Descent Algorithm. , 2018, , .		5
47	Fast and accurate reconstruction of compressed color light field. , 2018, , .		19
48	Learned phase coded aperture for the benefit of depth of field extension. Optics Express, 2018, 26, 15316.	3.4	65
49	Class-Aware Fully Convolutional Gaussian and Poisson Denoising. IEEE Transactions on Image Processing, 2018, 27, 5707-5722.	9.8	60
50	Improving DNN Robustness to Adversarial Attacks Using Jacobian Regularization. Lecture Notes in Computer Science, 2018, , 525-541.	1.3	73
51	Depth Estimation From a Single Image Using Deep Learned Phase Coded Mask. IEEE Transactions on Computational Imaging, 2018, 4, 298-310.	4.4	82
52	Robust Large Margin Deep Neural Networks. IEEE Transactions on Signal Processing, 2017, 65, 4265-4280.	5.3	98
53	Deep class-aware image denoising. , 2017, , .		18
54	Generalization error of deep neural networks: Role of classification margin and data structure. , 2017, , .		1

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55	Fast least squares pursuits for sparse recovery. , 2017, , .		1
56	Deep class-aware image denoising. , 2017, , .		1
57	White Matter Fiber Representation Using Continuous Dictionary Learning. Lecture Notes in Computer Science, 2017, , 566-574.	1.3	3
58	Reducing artifacts of intra-frame video coding via sequential denoising. , 2016, , .		1
59	Deep Neural Networks with Random Gaussian Weights: A Universal Classification Strategy?. IEEE Transactions on Signal Processing, 2016, 64, 3444-3457.	5.3	74
60	Postprocessing of Compressed Images via Sequential Denoising. IEEE Transactions on Image Processing, 2016, 25, 3044-3058.	9.8	55
61	Poisson inverse problems by the Plug-and-Play scheme. Journal of Visual Communication and Image Representation, 2016, 41, 96-108.	2.8	97
62	A greedy algorithm for the analysis transform domain. Neurocomputing, 2016, 173, 278-289.	5.9	10
63	Sampling in the analysis transform domain. Applied and Computational Harmonic Analysis, 2016, 40, 172-185.	2.2	4
64	On the effective measure of dimension in total variation minimization. , 2015, , .		1
65	Greedy signal space methods for incoherence and beyond. Applied and Computational Harmonic Analysis, 2015, 39, 1-20.	2.2	19
66	Near oracle performance and block analysis of signal space greedy methods. Journal of Approximation Theory, 2015, 194, 157-174.	0.8	8
67	On the Effective Measure of Dimension in the Analysis Cosparse Model. IEEE Transactions on Information Theory, 2015, 61, 5745-5753.	2.4	8
68	Sparsity Based Methods for Overparameterized Variational Problems. SIAM Journal on Imaging Sciences, 2015, 8, 2133-2159.	2.2	23
69	Sparsity based poisson inpainting. , 2014, , .		4
70	Sparsity-Based Poisson Denoising With Dictionary Learning. IEEE Transactions on Image Processing, 2014, 23, 5057-5069.	9.8	87
71	Greedy-like algorithms for the cosparse analysis model. Linear Algebra and Its Applications, 2014, 441, 22-60.	0.9	73
72	Can we allow linear dependencies in the dictionary in the sparse synthesis framework?. , 2013, , .		8

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73	Sparsity based Poisson denoising. , 2012, , .		9
74	RIP-Based Near-Oracle Performance Guarantees for SP, CoSaMP, and IHT. IEEE Transactions on Signal Processing, 2012, 60, 1465-1468.	5.3	46
75	Simple and Robust Binary Self-Location Patterns. IEEE Transactions on Information Theory, 2012, 58, 4884-4889.	2.4	19
76	The projected GSURE for automatic parameter tuning in iterative shrinkage methods. Applied and Computational Harmonic Analysis, 2011, 30, 407-422.	2.2	94
77	Online performance guarantees for sparse recovery. , 2011, , .		1
78	Iterative signal recovery from incomplete samples. Communications of the ACM, 2010, 53, 92-92.	4.5	0
79	Near-Oracle Performance Guarantees for Greedy-Like Methods. , 2010, , .		1
80	Automatic parameter setting for iterative shrinkage methods. , 2008, , .		7