Hemant Kumar Aggarwal

List of Publications by Year
in descending order

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35	1,227	759233 12	1125743 13
papers	citations	h-index	g-index

35	35	35	1320
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MoDL: Model-Based Deep Learning Architecture for Inverse Problems. IEEE Transactions on Medical Imaging, 2019, 38, 394-405.	8.9	609
2	Hyperspectral Image Denoising Using Spatio-Spectral Total Variation. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	3.1	147
3	Dynamic MRI using modelâ€based deep learning and SToRM priors: MoDLâ€SToRM. Magnetic Resonance in Medicine, 2019, 82, 485-494.	3.0	63
4	Hyperspectral Unmixing in the Presence of Mixed Noise Using Joint-Sparsity and Total Variation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4257-4266.	4.9	53
5	J-MoDL: Joint Model-Based Deep Learning for Optimized Sampling and Reconstruction. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1151-1162.	10.8	53
6	Discriminative Robust Deep Dictionary Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5274-5283.	6.3	50
7	MoDL-MUSSELS: Model-Based Deep Learning for Multishot Sensitivity-Encoded Diffusion MRI. IEEE Transactions on Medical Imaging, 2020, 39, 1268-1277.	8.9	32
8	Deep Generalization of Structured Low-Rank Algorithms (Deep-SLR). IEEE Transactions on Medical Imaging, 2020, 39, 4186-4197.	8.9	27
9	Impulse denoising for hyper-spectral images: A blind compressed sensing approach. Signal Processing, 2016, 119, 136-141.	3.7	19
10	Improved MUSSELS reconstruction for highâ€resolution multiâ€shot diffusion weighted imaging. Magnetic Resonance in Medicine, 2020, 83, 2253-2263.	3.0	19
11	Exploiting spatiospectral correlation for impulse denoising in hyperspectral images. Journal of Electronic Imaging, 2015, 24, 013027.	0.9	18
12	Single-sensor multi-spectral image demosaicing algorithm using learned interpolation weights. , 2014, , .		17
13	Mixed Gaussian and impulse denoising of hyperspectral images. , 2015, , .		17
14	Compressive sensing multi-spectral demosaicing from single sensor architecture. , 2014, , .		15
15	Label-Consistent Transform Learning for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1502-1506.	3.1	14
16	Model-Based Deep Learning for Reconstruction of Joint k-q Under-sampled High Resolution Diffusion MRI. , 2020, 2020, 913-916.		11
17	Model based image reconstruction using deep learned priors (MODL). , 2018, 2018, 671-674.		11
18	Generalized Synthesis and Analysis Prior Algorithms with Application to Impulse Denoising. , 2014, , .		9

#	Article	IF	Citations
19	Removing sparse noise from hyperspectral images with sparse and low-rank penalties. Journal of Electronic Imaging, 2016, 25, 020501.	0.9	8
20	Model-Based Free-Breathing Cardiac MRI Reconstruction Using Deep Learned & Storm Priors: MODL-STORM. , 2018, 2018, 6533-6537.		6
21	Extension of Sparse Randomized Kaczmarz Algorithm for Multiple Measurement Vectors. , 2014, , .		4
22	Hyperspectral impulse denoising with sparse and low-rank penalties. , 2015, , .		4
23	Multi-spectral demosaicing: A joint-sparse elastic-net formulation. , 2015, , .		4
24	Ensure: Ensemble Steinâ€™s Unbiased Risk Estimator for Unsupervised Learning. , 2021, 2021, .		4
25	Multi-spectral demosaicing technique for single-sensor imaging. , 2013, , .		3
26	Hyper-spectral impulse denoising: A row-sparse Blind Compressed Sensing formulation. , 2015, , .		2
27	Sparse filtering based hyperspectral unmixing. , 2016, , .		2
28	Multi-Shot Sensitivity-Encoded Diffusion MRI Using Model-Based Deep Learning (Modl-Mussels). , 2019, 2019, 1541-1544.		2
29	Joint Optimization of Sampling Patterns and Deep Priors for Improved Parallel MRI. , 2020, , .		2
30	Compressive hyper-spectral imaging in the presence of impulse noise. , 2015, , .		1
31	A Reconstruction Algorithm for Multi-Spectral Image Demosaicing. , 2013, , .		1
32	Blind hyperspectral denoising. , 2015, , .		0
33	Blind compressive hyper-spectral imaging. , 2015, , .		0
34	Compressive hyper-spectral imaging in the presence of real noise. , 2016, , .		0
35	Joint Optimization of Sampling Pattern and Priors in Model Based Deep Learning. , 2020, 2020, 926-929.		0