Shanshan Wang

List of Publications by Year
in descending order

49 papers	**1,914** citations	279798 **23** h-index	330143 **37** g-index
49 all docs	**49** docs citations	**49** times ranked	**1698** citing authors

#	Article	IF	Citations
1	Accelerating magnetic resonance imaging via deep learning. , 2016, 2016, 514-517.		455
2	DeepcomplexMRI: Exploiting deep residual network for fast parallel MR imaging with complex convolution. Magnetic Resonance Imaging, 2020, 68, 136-147.	1.8	120
3	D-UNet: A Dimension-Fusion U Shape Network for Chronic Stroke Lesion Segmentation. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 940-950.	3.0	114
4	A Radiomics Approach With CNN for Shear-Wave Elastography Breast Tumor Classification. IEEE Transactions on Biomedical Engineering, 2018, 65, 1935-1942.	4.2	110
5	Adaptive Dictionary Learning in Sparse Gradient Domain for Image Recovery. IEEE Transactions on Image Processing, 2013, 22, 4652-4663.	9.8	90
6	AUNet: attention-guided dense-upsampling networks for breast mass segmentation in whole mammograms. Physics in Medicine and Biology, 2020, 65, 055005.	3.0	89
7	Highly Undersampled Magnetic Resonance Image Reconstruction Using Two-Level Bregman Method With Dictionary Updating. IEEE Transactions on Medical Imaging, 2013, 32, 1290-1301.	8.9	66
8	Annotation-efficient deep learning for automatic medical image segmentation. Nature Communications, 2021, 12, 5915.	12.8	59
9	Learning Joint-Sparse Codes for Calibration-Free Parallel MR Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 251-261.	8.9	56
10	DIMENSION: Dynamic MR imaging with both k‐space and spatial prior knowledge obtained via multi‐supervised network training. NMR in Biomedicine, 2022, 35, e4131.	2.8	53
11	Dictionary learning based impulse noise removal via L1–L1 minimization. Signal Processing, 2013, 93, 2696-2708.	3.7	52
12	IFR-Net: Iterative Feature Refinement Network for Compressed Sensing MRI. IEEE Transactions on Computational Imaging, 2020, 6, 434-446.	4.4	48
13	Highly undersampled magnetic resonance imaging reconstruction using autoencoding priors. Magnetic Resonance in Medicine, 2020, 83, 322-336.	3.0	44
14	Deep learning for fast MR imaging: A review for learning reconstruction from incomplete k-space data. Biomedical Signal Processing and Control, 2021, 68, 102579.	5.7	43
15	Multi-View Mammographic Density Classification by Dilated and Attention-Guided Residual Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1003-1013.	3.0	38
16	Review and Prospect: Artificial Intelligence in Advanced Medical Imaging. Frontiers in Radiology, 2021, 1, .	2.0	37
17	MRI Based Radiomics Approach With Deep Learning for Prediction of Vessel Invasion in Early-Stage Cervical Cancer. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 995-1002.	3.0	36
18	A Coarse-to-Fine Deformable Transformation Framework for Unsupervised Multi-Contrast MR Image Registration with Dual Consistency Constraint. IEEE Transactions on Medical Imaging, 2021, 40, 2589-2599.	8.9	35

#	Article	IF	Citations
19	Learning Cross-Modal Deep Representations for Multi-Modal MR Image Segmentation. Lecture Notes in Computer Science, 2019, , 57-65.	1.3	34
20	Lymph-vascular space invasion prediction in cervical cancer: Exploring radiomics and deep learning multilevel features of tumor and peritumor tissue on multiparametric MRI. Biomedical Signal Processing and Control, 2020, 58, 101869.	5.7	32
21	Parameter-Transferred Wasserstein Generative Adversarial Network (PT-WGAN) for Low-Dose PET Image Denoising. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 213-223.	3.7	30
22	A comparative study of CNN-based super-resolution methods in MRI reconstruction and its beyond. Signal Processing: Image Communication, 2020, 81, 115701.	3.2	27
23	MSDF-Net: Multi-Scale Deep Fusion Network for Stroke Lesion Segmentation. IEEE Access, 2019, 7, 178486-178495.	4.2	25
24	An augmented Lagrangian approach to general dictionary learning for image denoising. Journal of Visual Communication and Image Representation, 2012, 23, 753-766.	2.8	24
25	Iterative feature refinement for accurate undersampled MR image reconstruction. Physics in Medicine and Biology, 2016, 61, 3291-3316.	3.0	20
26	A novel predual dictionary learning algorithm. Journal of Visual Communication and Image Representation, 2012, 23, 182-193.	2.8	17
27	Field-of-Experts Filters Guided Tensor Completion. IEEE Transactions on Multimedia, 2018, 20, 2316-2329.	7.2	17
28	VST-Net: Variance-stabilizing transformation inspired network for Poisson denoising. Journal of Visual Communication and Image Representation, 2019, 62, 12-22.	2.8	17
29	Fenchel Duality Based Dictionary Learning for Restoration of Noisy Images. IEEE Transactions on Image Processing, 2013, 22, 5214-5225.	9.8	15
30	Homotopic Gradients of Generative Density Priors for MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 3265-3278.	8.9	15
31	High-dimensional embedding network derived prior for compressive sensing MRI reconstruction. Medical Image Analysis, 2020, 64, 101717.	11.6	14
32	Improved parallel image reconstruction using feature refinement. Magnetic Resonance in Medicine, 2018, 80, 211-223.	3.0	11
33	Undersampled MR Image Reconstruction with Data-Driven Tight Frame. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	1.3	10
34	An augmented Lagrangian multi-scale dictionary learning algorithm. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	9
35	Self-supervised Learning for MRI Reconstruction with a Parallel Network Training Framework. Lecture Notes in Computer Science, 2021, , 382-391.	1.3	8
36	Model-Based Convolutional De-Aliasing Network Learning for Parallel MR Imaging. Lecture Notes in Computer Science, 2019, , 30-38.	1.3	7

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37	Foreground Detection With Simultaneous Dictionary Learning and Historical Pixel Maintenance. IEEE Transactions on Image Processing, 2016, 25, 5035-5049.	9.8	6
38	Sparse and dense hybrid representation via subspace modeling for dynamic MRI. Computerized Medical Imaging and Graphics, 2017, 56, 24-37.	5.8	6
39	Parallel imaging via sparse representation over a learned dictionary. , 2015, , .		5
40	LANTERN: Learn analysis transform network for dynamic magnetic resonance imaging. Inverse Problems and Imaging, 2021, 15, 1363.	1.1	5
41	Transformed denoising autoencoder prior for image restoration. Journal of Visual Communication and Image Representation, 2020, 72, 102927.	2.8	4
42	Two-Layer Tight Frame Sparsifying Model for Compressed Sensing Magnetic Resonance Imaging. BioMed Research International, 2016, 2016, 1-7.	1.9	3
43	Sparse Parallel MRI Based on Accelerated Operator Splitting Schemes. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-14.	1.3	3
44	Magnetic resonance image restoration via dictionary learning under spatially adaptive constraints. , 2013, 2013, 4030-3.		2
45	Deeply-Supervised Multi-Dose Prior Learning For Low-Dose Pet Imaging. , 2020, , .		1
46	Low-Dose Pet Image Restoration With 2D And 3D Network Prior Learning. , 2020, , .		1
47	Universal Generative Modeling for Calibration-Free Parallel Mr Imaging. , 2022, , .		1
48	High-Dimensional Embedding Denoising Autoencoding Prior for Color Image Restoration. , 2019, , .		0
49	A Network-Driven Prior Induced Bregman Model for Parallel MR Imaging*. , 2019, 2019, 4483-4486.		0