Hongming Shan

List of Publications by Citations

50 papers	1,017 citations	14 h-index	31 g-index
62 ext. papers	1,594 ext. citations	6.9 avg, IF	5.02 L-index

#	Paper	IF	Citations
50	3-D Convolutional Encoder-Decoder Network for Low-Dose CT via Transfer Learning From a 2-D Trained Network. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1522-1534	11.7	160
49	CT Super-Resolution GAN Constrained by the Identical, Residual, and Cycle Learning Ensemble (GAN-CIRCLE). *IEEE Transactions on Medical Imaging*, **2020**, 39, 188-203	11.7	140
48	Competitive performance of a modularized deep neural network compared to commercial algorithms for low-dose CT image reconstruction. *Nature Machine Intelligence*, **2019**, 1, 269-276	22.5	131
47	Structurally-sensitive Multi-scale Deep Neural Network for Low-Dose CT Denoising. *IEEE Access*, **2018**, 6, 41839-41855	3.5	99
46	Multi-Task GANs for View-Specific Feature Learning in Gait Recognition. *IEEE Transactions on Information Forensics and Security*, **2019**, 14, 102-113	8	97
45	MRI Super-Resolution With Ensemble Learning and Complementary Priors. *IEEE Transactions on Computational Imaging*, **2020**, 6, 615-624	4.5	29
44	A method of rapid quantification of patient-specific organ doses for CT using deep-learning-based multi-organ segmentation and GPU-accelerated Monte Carlo dose computing. *Medical Physics*, **2020** , 47, 2526-2536	4.4	25
43	Multi-Contrast Super-Resolution MRI Through a Progressive Network. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2738-2749	11.7	25
42	Shape and margin-aware lung nodule classification in low-dose CT images via soft activation mapping. *Medical Image Analysis*, **2020**, 60, 101628	15.4	25
41	Quadratic Autoencoder (Q-AE) for Low-Dose CT Denoising. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2035-2050	11.7	24
40	Deep learning methods for CT image-domain metal artifact reduction **2017**,		23
39	Super-resolution MRI and CT through GAN-CIRCLE **2019**,		18
38	A dual-stream deep convolutional network for reducing metal streak artifacts in CT images. *Physics in Medicine and Biology*, **2019**, 64, 235003	3.8	15
37	. *IEEE Transactions on Information Forensics and Security*, **2021**, 16, 2031-2045	8	14
36	**2021**,		13
35	Crowd Counting With Limited Labeling Through Submodular Frame Selection. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 1728-1738	6.1	11
34	Accelerated Correction of Reflection Artifacts by Deep Neural Networks in Photo-Acoustic Tomography. *Applied Sciences (Switzerland)*, **2019**, 9, 2615	2.6	11

33	Deep learning predicts cardiovascular disease risks from lung cancer screening low dose computed tomography. *Nature Communications*, **2021**, 12, 2963	17.4	11
32	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	4.2	11
31	. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1	5.2	10
30	Synergizing medical imaging and radiotherapy with deep learning. *Machine Learning: Science and Technology*, **2020**, 1, 021001	5.1	9
29	Look Globally, Age Locally: Face Aging With an Attention Mechanism **2020**,		9
28	Optimized collusion prevention for online exams during social distancing. *Npj Science of Learning*, **2021**, 6, 5	6	8
27	Deep Encoder-Decoder Adversarial Reconstruction(DEAR) Network for 3D CT from Few-View Data. *Bioengineering*, **2019**, 6,	5.3	8
26	Cine Cardiac MRI Motion Artifact Reduction Using a Recurrent Neural Network. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2170-2181	11.7	8
25	Ordinal distribution regression for gait-based age estimation. *Science China Information Sciences*, **2020**, 63, 1	3.4	7
24	Population Density-Based Hospital Recommendation with Mobile LBS Big Data **2018**,		7
23	Deep Efficient End-to-end Reconstruction (DEER) Network for Few-view Breast CT Image Reconstruction. *IEEE Access*, **2020**, 8, 196633-196646	3.5	6
22	A two-dimensional feasibility study of deep learning-based feature detection and characterization directly from CT sinograms. *Medical Physics*, **2019**, 46, e790-e800	4.4	6
21	Content-Noise Complementary Learning for Medical Image Denoising. *IEEE Transactions on Medical Imaging*, **2021**, PP,	11.7	6
20	MCDNet □A Denoising Convolutional Neural Network to Accelerate Monte Carlo Radiation Transport Simulations: A Proof of Principle With Patient Dose From X-Ray CT Imaging. *IEEE Access*, **2019**, 7, 76680-76689	3.5	5
19	Dual network architecture for few-view CT - trained on ImageNet data and transferred for medical imaging **2019**,		5
18	Simultaneous reconstruction of the initial pressure and sound speed in photoacoustic tomography using a deep-learning approach **2019**,		4
17	Convolutional Ordinal Regression Forest for Image Ordinal Estimation. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	4
16	Deep-learning-based breast CT for radiation dose reduction **2019**,		3

15	A novel transfer learning framework for low-dose CT **2019**,		3
14	Meta Ordinal Weighting Net For Improving Lung Nodule Classification **2021**,		3
13	Correction for 3D Convolutional Encoder-Decoder Network for Low-Dose CT via Transfer Learning From a 2D Trained Network[Jun 18 1522-1534]. *IEEE Transactions on Medical Imaging*, **2018**, 37, 2750-2750	11.7	3
12	Framework of Randomized Distribution Features for Visual Representation and Categorization. *IEEE Transactions on Cybernetics*, **2019**, 49, 3599-3606	10.2	2
11	Quadratic autoencoder for low-dose CT denoising **2019**,		2
10	Low-dimensional Manifold Constrained Disentanglement Network for Metal Artifact Reduction. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 1-1	4.2	2
9	Strided Self-Supervised Low-Dose CT Denoising for Lung Nodule Classification. *Phenomics*, **2021**, 1, 257		2
8	Meta Ordinal Regression Forest For Learning with Unsure Lung Nodules **2020**,		2
7	Deeply-Supervised Multi-Dose Prior Learning For Low-Dose Pet Imaging **2020**,		1
6	Selfgait: A Spatiotemporal Representation Learning Method for Self-Supervised Gait Recognition **2021**,		1
5	Learning Linear Representation of Space Partitioning Trees Based on Unsupervised Kernel Dimension Reduction. *IEEE Transactions on Cybernetics*, **2016**, 46, 3427-3438	10.2	0
4	Feasibility evaluation of PET scan-time reduction for diagnosing amyloid-β levels in Alzheimer's disease patients using a deep-learning-based denoising algorithm. *Computers in Biology and Medicine*, **2021**, 138, 104919	7	0
3	Data Augmentation for Training Deep Neural Networks **2021**, 151-164		0
2	Maximum contributed component regression for the inverse problem in optical scatterometry. *Optics Express*, **2017**, 25, 15956-15966	3.3	
1	Group Information-Based Dimensionality Reduction via Canonical Correlation Analysis. *Lecture Notes in Computer Science*, **2016**, 297-305	0.9	