Hongming Shan

List of Publications by Year in Descending Order

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	**2021**,		13
49	Low-dimensional Manifold Constrained Disentanglement Network for Metal Artifact Reduction. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 1-1	4.2	2
48	. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1	5.2	10
47	Strided Self-Supervised Low-Dose CT Denoising for Lung Nodule Classification. *Phenomics*, **2021**, 1, 257		2
46	Feasibility evaluation of PET scan-time reduction for diagnosing amyloid-levels in Alzheimer's disease patients using a deep-learning-based denoising algorithm. *Computers in Biology and Medicine*, **2021**, 138, 104919	7	0
45	Optimized collusion prevention for online exams during social distancing. *Npj Science of Learning*, **2021**, 6, 5	6	8
44	Data Augmentation for Training Deep Neural Networks **2021**, 151-164		0
43	Deep learning predicts cardiovascular disease risks from lung cancer screening low dose computed tomography. *Nature Communications*, **2021**, 12, 2963	17.4	11
42	Selfgait: A Spatiotemporal Representation Learning Method for Self-Supervised Gait Recognition **2021**,		1
41	Meta Ordinal Weighting Net For Improving Lung Nodule Classification **2021**,		3
40	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
39	. *IEEE Transactions on Information Forensics and Security*, **2021**, 16, 2031-2045	8	14
38	Convolutional Ordinal Regression Forest for Image Ordinal Estimation. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	4
37	Content-Noise Complementary Learning for Medical Image Denoising. *IEEE Transactions on Medical Imaging*, **2021**, PP,	11.7	6
36	Cine Cardiac MRI Motion Artifact Reduction Using a Recurrent Neural Network. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2170-2181	11.7	8
35	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
34	Multi-Contrast Super-Resolution MRI Through a Progressive Network. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2738-2749	11.7	25

33	Ordinal distribution regression for gait-based age estimation. *Science China Information Sciences*, **2020**, 63, 1	3.4	7
32	MRI Super-Resolution With Ensemble Learning and Complementary Priors. *IEEE Transactions on Computational Imaging*, **2020**, 6, 615-624	4.5	29
31	Synergizing medical imaging and radiotherapy with deep learning. *Machine Learning: Science and Technology*, **2020**, 1, 021001	5.1	9
30	Look Globally, Age Locally: Face Aging With an Attention Mechanism **2020**,		9
29	Meta Ordinal Regression Forest For Learning with Unsure Lung Nodules **2020**,		2
28	Quadratic Autoencoder (Q-AE) for Low-Dose CT Denoising. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2035-2050	11.7	24
27	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
26	Deeply-Supervised Multi-Dose Prior Learning For Low-Dose Pet Imaging **2020**,		1
25	Deep Efficient End-to-end Reconstruction (DEER) Network for Few-view Breast CT Image Reconstruction. *IEEE Access*, **2020**, 8, 196633-196646	3.5	6
24	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
23	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
22	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
21	Multi-Task GANs for View-Specific Feature Learning in Gait Recognition. *IEEE Transactions on Information Forensics and Security*, **2019**, 14, 102-113	8	97
20	Framework of Randomized Distribution Features for Visual Representation and Categorization. *IEEE Transactions on Cybernetics*, **2019**, 49, 3599-3606	10.2	2
19	Crowd Counting With Limited Labeling Through Submodular Frame Selection. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 1728-1738	6.1	11
18	Accelerated Correction of Reflection Artifacts by Deep Neural Networks in Photo-Acoustic Tomography. *Applied Sciences (Switzerland)*, **2019**, 9, 2615	2.6	11
17	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
16	Simultaneous reconstruction of the initial pressure and sound speed in photoacoustic tomography using a deep-learning approach **2019**,		4

15	Deep-learning-based breast CT for radiation dose reduction **2019**,		3
14	Super-resolution MRI and CT through GAN-CIRCLE **2019**,		18
13	Dual network architecture for few-view CT - trained on ImageNet data and transferred for medical imaging **2019**,		5
12	Quadratic autoencoder for low-dose CT denoising **2019**,		2
11	A novel transfer learning framework for low-dose CT **2019**,		3
10	Deep Encoder-Decoder Adversarial Reconstruction(DEAR) Network for 3D CT from Few-View Data. *Bioengineering*, **2019**, 6,	5.3	8
9	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
8	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
7	Structurally-sensitive Multi-scale Deep Neural Network for Low-Dose CT Denoising. *IEEE Access*, **2018**, 6, 41839-41855	3.5	99
6	Population Density-Based Hospital Recommendation with Mobile LBS Big Data **2018**,		7
5	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
4	Maximum contributed component regression for the inverse problem in optical scatterometry. *Optics Express*, **2017**, 25, 15956-15966	3.3	
3	Deep learning methods for CT image-domain metal artifact reduction **2017**,		23
2	Learning Linear Representation of Space Partitioning Trees Based on Unsupervised Kernel Dimension Reduction. *IEEE Transactions on Cybernetics*, **2016**, 46, 3427-3438	10.2	0
1	Group Information-Based Dimensionality Reduction via Canonical Correlation Analysis. *Lecture Notes in Computer Science*, **2016**, 297-305	0.9	