Jun Shi

List of Publications by Year
in descending order

87 papers	3,133 citations	236925 25 h-index	168389 53 g-index
94 all docs	94 docs citations	94 times ranked	4215 citing authors

#	Article	IF	Citations
1	Review of Artificial Intelligence Techniques in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19. IEEE Reviews in Biomedical Engineering, 2021, 14, 4-15.	18.0	894
2	Multimodal Neuroimaging Feature Learning With Multimodal Stacked Deep Polynomial Networks for Diagnosis of Alzheimer's Disease. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 173-183.	6.3	319
3	Deep learning based classification of breast tumors with shear-wave elastography. Ultrasonics, 2016, 72, 150-157.	3.9	181
4	Stacked deep polynomial network based representation learning for tumor classification with small ultrasound image dataset. Neurocomputing, 2016, 194, 87-94.	5.9	141
5	Shearlet-based texture feature extraction for classification of breast tumor in ultrasound image. Biomedical Signal Processing and Control, 2013, 8, 688-696.	5.7	99
6	Sonoelastomics for Breast Tumor Classification: A Radiomics Approach with Clustering-Based Feature Selection on Sonoelastography. Ultrasound in Medicine and Biology, 2017, 43, 1058-1069.	1.5	89
7	Super-resolution reconstruction of MR image with a novel residual learning network algorithm. Physics in Medicine and Biology, 2018, 63, 085011.	3.0	88
8	COVID-AL: The diagnosis of COVID-19 with deep active learning. Medical Image Analysis, 2021, 68, 101913.	11.6	84
9	MR Image Super-Resolution via Wide Residual Networks With Fixed Skip Connection. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1129-1140.	6.3	81
10	A two-stage multi-view learning framework based computer-aided diagnosis of liver tumors with contrast enhanced ultrasound images. Clinical Hemorheology and Microcirculation, 2018, 69, 343-354.	1.7	74
11	Histopathological Image Classification With Color Pattern Random Binary Hashing-Based PCANet and Matrix-Form Classifier. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1327-1337.	6.3	57
12	Cascaded Multi-Column RVFL+ Classifier for Single-Modal Neuroimaging-Based Diagnosis of Parkinson's Disease. IEEE Transactions on Biomedical Engineering, 2019, 66, 2362-2371.	4.2	51
13	Recognition of Finger Flexion Motion from Ultrasound Image: A Feasibility Study. Ultrasound in Medicine and Biology, 2012, 38, 1695-1704.	1.5	50
14	SEMG-based hand motion recognition using cumulative residual entropy and extreme learning machine. Medical and Biological Engineering and Computing, 2013, 51, 417-427.	2.8	49
15	Projective parameter transfer based sparse multiple empirical kernel learning Machine for diagnosis of brain disease. Neurocomputing, 2020, 413, 271-283.	5.9	45
16	Multi-Class ASD Classification Based on Functional Connectivity and Functional Correlation Tensor via Multi-Source Domain Adaptation and Multi-View Sparse Representation. IEEE Transactions on Medical Imaging, 2020, 39, 3137-3147.	8.9	44
17	Review and Prospect: Artificial Intelligence in Advanced Medical Imaging. Frontiers in Radiology, 2021, 1, .	2.0	37
18	Multi-channel EEG-based sleep stage classification with joint collaborative representation and multiple kernel learning. Journal of Neuroscience Methods, 2015, 254, 94-101.	2.5	36

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19	Feasibility of controlling prosthetic hand using sonomyography signal in real time: Preliminary study. Journal of Rehabilitation Research and Development, 2010, 47, 87.	1.6	35
20	Dual-mode artificially-intelligent diagnosis of breast tumours in shear-wave elastography and B-mode ultrasound using deep polynomial networks. Medical Engineering and Physics, 2019, 64, 1-6.	1.7	34
21	Dual-modal computer-assisted evaluation of axillary lymph node metastasis in breast cancer patients on both real-time elastography and B-mode ultrasound. European Journal of Radiology, 2017, 95, 66-74.	2.6	32
22	Uncertainty Modeling for Multicenter Autism Spectrum Disorder Classification Using Takagiâ€"Sugenoâ€"Kang Fuzzy Systems. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 730-739.	3.8	32
23	Sparse kernel entropy component analysis for dimensionality reduction of biomedical data. Neurocomputing, 2015, 168, 930-940.	5.9	30
24	Manifold Preserving: An Intrinsic Approach for Semisupervised Distance Metric Learning. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-12.	11.3	29
25	Neuroimaging-based diagnosis of Parkinson's disease with deep neural mapping large margin distribution machine. Neurocomputing, 2018, 320, 141-149.	5.9	28
26	Aberrant Neural Activity in Patients With Bipolar Depressive Disorder Distinguishing to the Unipolar Depressive Disorder: A Resting-State Functional Magnetic Resonance Imaging Study. Frontiers in Psychiatry, 2018, 9, 238.	2.6	28
27	Quaternion Grassmann average network for learning representation of histopathological image. Pattern Recognition, 2019, 89, 67-76.	8.1	24
28	Multi-Source Transfer Learning Via Multi-Kernel Support Vector Machine Plus for B-Mode Ultrasound-Based Computer-Aided Diagnosis of Liver Cancers. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3874-3885.	6.3	23
29	Quantification of carotid plaque elasticity and intraplaque neovascularization using contrast-enhanced ultrasound and image registration-based elastography. Ultrasonics, 2015, 62, 253-262.	3.9	22
30	Recognition of Finger Flexion from Ultrasound Image with Optical Flow: A Preliminary Study. , 2010, , .		21
31	Learning using privileged information improves neuroimaging-based CAD of Alzheimerâ€™s disease: a comparative study. Medical and Biological Engineering and Computing, 2019, 57, 1605-1616.	2.8	20
32	Joint sparse coding based spatial pyramid matching for classification of color medical image. Computerized Medical Imaging and Graphics, 2015, 41, 61-66.	5.8	17
33	Multi-modality stacked deep polynomial network based feature learning for Alzheimer's disease diagnosis. , 2016, , .		17
34	Improving MRI-based diagnosis of Alzheimer's disease via an ensemble privileged information learning algorithm. , 2017, , .		16
35	Modeling the relationship between wrist angle and muscle thickness during wrist flexionâ€"extension based on the boneâ€"muscle lever system: A comparison study. Medical Engineering and Physics, 2009, 31, 1255-1260.	1.7	15
36	Automatic Image Segmentation Algorithm Based on PCNN and Fuzzy Mutual Information. , 2009, , .		15

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37	Doubly supervised parameter transfer classifier for diagnosis of breast cancer with imbalanced ultrasound imaging modalities. Pattern Recognition, 2021, 120, 108139.	8.1	15
38	Sonoelastography shows that Achilles tendons with insertional tendinopathy are harder than asymptomatic tendons. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 1839-1848.	4.2	15
39	A Convolutional Neural Network and Graph Convolutional Network Based Framework for Classification of Breast Histopathological Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3163-3173.	6.3	15
40	A Mobile Monitoring System of Blood Pressure for Underserved in China by Information and Communication Technology Service. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 748-757.	3.2	12
41	An Improved Deep Polynomial Network Algorithm for Transcranial Sonography–Based Diagnosis of Parkinson's Disease. Cognitive Computation, 2020, 12, 553-562.	5.2	12
42	Parameter Transfer Deep Neural Network for Single-Modal B-Mode Ultrasound-Based Computer-Aided Diagnosis. Cognitive Computation, 2020, 12, 1252-1264.	5.2	11
43	A Two-Stage Multi-loss Super-Resolution Network for Arterial Spin Labeling Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2019, , 12-20.	1.3	11
44	Two-Stage Self-supervised Cycle-Consistency Network for Reconstruction of Thin-Slice MR Images. Lecture Notes in Computer Science, 2021, , 3-12.	1.3	10
45	Lightweight adaptive weighted network for single image super-resolution. Computer Vision and Image Understanding, 2021, 211, 103254.	4.7	10
46	Multi-Class ASD Classification via Label Distribution Learning with Class-Shared and Class-Specific Decomposition. Medical Image Analysis, 2022, 75, 102294.	11.6	9
47	The Design of Medical Assistant System for Ward Doctors. , 2006, , .		8
48	SVM for Estimation of Wrist Angle from Sonomyography And SEMG Signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4806-9.	0.5	8
49	Histopathological image classification using random binary hashing based PCANet and bilinear classifier. , 2016, , .		8
50	Evaluating pathologic response of breast cancer to neoadjuvant chemotherapy with computer-extracted features from contrast-enhanced ultrasound videos. Physica Medica, 2017, 39, 156-163.	0.7	8
51	Joint Localization and Classification of Breast Cancer in B-Mode Ultrasound Imaging via Collaborative Learning With Elastography. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4474-4485.	6.3	8
52	BI-Modal Ultrasound Breast Cancer Diagnosis Via Multi-View Deep Neural Network SVM. , 2020, , .		7
53	Improving Single-Modal Neuroimaging Based Diagnosis of Brain Disorders via Boosted Privileged Information Learning Framework. Lecture Notes in Computer Science, 2016, , 95-103.	1.3	7
54	Ultrasound Image Based Tumor Classification via Deep Polynomial Network and Multiple Kernel Learning. Current Medical Imaging, 2018, 14, 301-308.	0.8	7

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55	Self-Supervised Bi-Channel Transformer Networks for Computer-Aided Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3435-3446.	6.3	7
56	A Channel Attention Based MLP-Mixer Network for Motor Imagery Decoding With EEG. , 2022, , .		7
57	Design of wireless mobile monitoring of blood pressure for underserved in China by using short messaging service. , 2008, , .		6
58	The Relationship between SEMG and Change in Pennation Angle of Brachialis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4802-5.	0.5	5
59	Ultrasound-Based Diagnosis of Breast Tumor with Parameter Transfer Multilayer Kernel Extreme Learning Machine. , 2019, 2019, 933-936.		5
60	Preliminary Study of Skeletal Muscle with Multi-signals during Isometric Contraction. , 2006, 2006, 5080-3.		4
61	Image Segmentation with Simplified PCNN. , 2009, , .		4
62	A New 3D Segmentation Algorithm Based on 3D PCNN for Lung CT Slices. , 2009, , .		4
63	Diagnosis of Infantile Hip Dysplasia With B-Mode Ultrasound via Two-Stage Meta-Learning Based Deep Exclusivity Regularized Machine. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 334-344.	6.3	4
64	Tensor Gradient Lâ‚¬-Norm Minimization-Based Low-Dose CT and Its Application to COVID-19. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	4
65	Manifold-Regularized Multitask Fuzzy System Modeling With Low-Rank and Sparse Structures in Consequent Parameters. IEEE Transactions on Fuzzy Systems, 2022, 30, 1486-1500.	9.8	4
66	Impact of region of interest size on transcranial sonography based computer-aided diagnosis for Parkinsonâ€™s disease. Mathematical Biosciences and Engineering, 2019, 16, 5640-5651.	1.9	4
67	A Pilot Study of The SMG Controlled Prosthesis. , 2007, , .		3
68	Co-training based semi-supervised classification of Alzheimer's disease. , 2014, , .		3
69	Analyzing brain structural differences associated with categories of blood pressure in adults using empirical kernel mapping-based kernel ELM+. BioMedical Engineering OnLine, 2019, 18, 124.	2.7	3
70	Meta-Learning Based Interactively Connected Clique U-Net for Quantitative Susceptibility Mapping. IEEE Transactions on Computational Imaging, 2021, 7, 1385-1399.	4.4	3
71	A New Design for Ultrasonic Gas Flowmeter. , 2006, , .		2
72	Evaluation of the Muscle Fatigue Based on Ultrasound Images. , 2006, , .		2

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73	Estimation of muscle pennation angle in ultrasound images using the beamlet transform. Journal of Shanghai University, 2010, 14, 34-38.	0.1	2
74	Elevated hardness of peripheral gland on real-time elastography is an independent marker for high-risk prostate cancers. Radiologia Medica, 2017, 122, 944-951.	7.7	2
75	3D Convolutional Networks Based Automatic Diagnosis of Alzheimer's Disease Using Structural MRI. , 2019, , .		2
76	Fatigue-Induced Continuous Changes in Muscle Pennation Angle during Isometric Contraction. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	1
77	Shearlet-Based Ultrasound Texture Features for Classification of Breast Tumor. , 2013, , .		1
78	Hessian regularization based semi-supervised dimensionality reduction for neuroimaging data of Alzheimer's disease. , 2014, , .		1
79	Reconstruction Of Quantitative Susceptibility Maps From Phase Of Susceptibility Weighted Imaging With Cross-Connected Î¨-Net. , 2021, , .		1
80	Application of the Neural Network in the Study of Skeletal Muscle with Multi-parameters. , 2006, , .		0
81	The Design of Community EHR System Based on PDA. , 2007, , .		0
82	A stereoscopic enhancement algorithm based on monocular image. , 2008, , .		0
83	Modeling the relation between muscle thickness and wrist angle based on bone-muscle lever model. , 2008, 2008, 887-90.		0
84	A New Approach to Estimation of Muscle Pennation Angle in Ultrasound Image. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
85	Characterization of surface EMG with cumulative residual entropy. , 2012, , .		0
86	Prediction of Wrist Angle from Sonomyography Signals with Artificial Neural Networks Technique. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
87	Preliminary Study of Skeletal Muscle with Multi-signals during Isometric Contraction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0