Yong Xia

List of Publications by Year in descending order

99 papers	4,626 citations	117625 34 h-index	110387 64 g-index
102 all docs	102 docs citations	102 times ranked	4233 citing authors

#	Article	IF	Citations
1	Attention Residual Learning for Skin Lesion Classification. IEEE Transactions on Medical Imaging, 2019, 38, 2092-2103.	8.9	362
2	Knowledge-based Collaborative Deep Learning for Benign-Malignant Lung Nodule Classification on Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 991-1004.	8.9	317
3	Medical image classification using synergic deep learning. Medical Image Analysis, 2019, 54, 10-19.	11.6	252
4	Viral Pneumonia Screening on Chest X-Rays Using Confidence-Aware Anomaly Detection. IEEE Transactions on Medical Imaging, 2021, 40, 879-890.	8.9	234
5	A Mutual Bootstrapping Model for Automated Skin Lesion Segmentation and Classification. IEEE Transactions on Medical Imaging, 2020, 39, 2482-2493.	8.9	206
6	Fusing texture, shape and deep model-learned information at decision level for automated classification of lung nodules on chest CT. Information Fusion, 2018, 42, 102-110.	19.1	185
7	CoTr: Efficiently Bridging CNN and Transformer for 3D Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 171-180.	1.3	172
8	Semi-supervised adversarial model for benignâ€“malignant lung nodule classification on chest CT. Medical Image Analysis, 2019, 57, 237-248.	11.6	133
9	NFNï¼‹: A novel network followed network for retinal vessel segmentation. Neural Networks, 2020, 126, 153-162.	5.9	119
10	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
11	Fuzzy c-means clustering with weighted image patch for image segmentation. Applied Soft Computing Journal, 2012, 12, 1659-1667.	7.2	105
12	Fuzzy Local Gaussian Mixture Model for Brain MR Image Segmentation. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 339-347.	3.2	96
13	Active contours driven by local likelihood image fitting energy for image segmentation. Information Sciences, 2015, 301, 285-304.	6.9	85
14	Classification of Medical Images in the Biomedical Literature by Jointly Using Deep and Handcrafted Visual Features. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1521-1530.	6.3	84
15	Synthesizing Missing PET from MRI with Cycle-consistent Generative Adversarial Networks for Alzheimerâ€™s Disease Diagnosis. Lecture Notes in Computer Science, 2018, 11072, 455-463.	1.3	80
16	Triple attention learning for classification of 14 thoracic diseases using chest radiography. Medical Image Analysis, 2021, 67, 101846.	11.6	78
17	Generalized rough fuzzy c-means algorithm for brain MR image segmentation. Computer Methods and Programs in Biomedicine, 2012, 108, 644-655.	4.7	77
18	EMS-Net: Ensemble of Multiscale Convolutional Neural Networks for Classification of Breast Cancer Histology Images. Neurocomputing, 2019, 366, 46-53.	5.9	76

#	ARTICLE	IF	CITATIONS
19	3D APA-Net: 3D Adversarial Pyramid Anisotropic Convolutional Network for Prostate Segmentation in MR Images. IEEE Transactions on Medical Imaging, 2020, 39, 447-457.	8.9	74
20	A tribe competition-based genetic algorithm for feature selection in pattern classification. Applied Soft Computing Journal, 2017, 58, 328-338.	7.2	73
21	Hybrid Genetic and Variational Expectation-Maximization Algorithm for Gaussian-Mixture-Model-Based Brain MR Image Segmentation. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 373-380.	3.2	71
22	Atlas registration and ensemble deep convolutional neural network-based prostate segmentation using magnetic resonance imaging. Neurocomputing, 2018, 275, 1358-1369.	5.9	68
23	Light-Weight Hybrid Convolutional Network for Liver Tumor Segmentation. , 2019, , .		67
24	Thorax-Net: An Attention Regularized Deep Neural Network for Classification of Thoracic Diseases on Chest Radiography. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 475-485.	6.3	66
25	Inter-Slice Context Residual Learning for 3D Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 661-672.	8.9	66
26	Autonomous deep learning: A genetic DCNN designer for image classification. Neurocomputing, 2020, 379, 152-161.	5.9	65
27	Pulmonary nodule detection in medical images: A survey. Biomedical Signal Processing and Control, 2018, 43, 138-147.	5.7	61
28	DoDNet: Learning to Segment Multi-Organ and Tumors from Multiple Partially Labeled Datasets. , 2021, , .		61
29	Spatially-Constrained Fisher Representation for Brain Disease Identification With Incomplete Multi-Modal Neuroimages. IEEE Transactions on Medical Imaging, 2020, 39, 2965-2975.	8.9	52
30	Adaptive scale fuzzy local Gaussian mixture model for brain MR image segmentation. Neurocomputing, 2014, 134, 60-69.	5.9	51
31	SESV: Accurate Medical Image Segmentation by Predicting and Correcting Errors. IEEE Transactions on Medical Imaging, 2021, 40, 286-296.	8.9	49
32	NODULe: Combining constrained multi-scale LoG filters with densely dilated 3D deep convolutional neural network for pulmonary nodule detection. Neurocomputing, 2018, 317, 159-167.	5.9	46
33	M3Net: A multi-model, multi-size, and multi-view deep neural network for brain magnetic resonance image segmentation. Pattern Recognition, 2019, 91, 366-378.	8.1	44
34	Brain MRI image segmentation based on learning local variational Gaussian mixture models. Neurocomputing, 2016, 204, 189-197.	5.9	39
35	Mutual consistency learning for semi-supervised medical image segmentation. Medical Image Analysis, 2022, 81, 102530.	11.6	39
36	Skin Lesion Classification in Dermoscopy Images Using Synergic Deep Learning. Lecture Notes in Computer Science, 2018, , 12-20.	1.3	38

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37	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
38	Iterative sparse and deep learning for accurate diagnosis of Alzheimerâ€™s disease. Pattern Recognition, 2021, 116, 107944.	8.1	36
39	Automated identification of dementia using medical imaging: a survey from a pattern classification perspective. Brain Informatics, 2016, 3, 17-27.	3.0	35
40	Disease-Image-Specific Learning for Diagnosis-Oriented Neuroimage Synthesis With Incomplete Multi-Modality Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6839-6853.	13.9	33
41	Multiscale attention guided U-Net architecture for cardiac segmentation in short-axis MRI images. Computer Methods and Programs in Biomedicine, 2021, 206, 106142.	4.7	33
42	A robust modified Gaussian mixture model with rough set for image segmentation. Neurocomputing, 2017, 266, 550-565.	5.9	31
43	Electron microscopy of laser capsulotomy edge: Interplatform comparison. Journal of Cataract and Refractive Surgery, 2014, 40, 1382-1389.	1.5	28
44	Early identification of mild cognitive impairment using incomplete random forest-robust support vector machine and FDG-PET imaging. Computerized Medical Imaging and Graphics, 2017, 60, 35-41.	5.8	28
45	Person Re-Identification With Triplet Focal Loss. IEEE Access, 2018, 6, 78092-78099.	4.2	27
46	Cell image segmentation using bacterial foraging optimization. Applied Soft Computing Journal, 2017, 58, 770-782.	7.2	26
47	Disease-Image Specific Generative Adversarial Network for Brain Disease Diagnosis with Incomplete Multi-modal Neuroimages. Lecture Notes in Computer Science, 2019, , 137-145.	1.3	26
48	Deep Segmentation-Emendation Model for Gland Instance Segmentation. Lecture Notes in Computer Science, 2019, , 469-477.	1.3	24
49	Hidden Markov random field model based brain MR image segmentation using clonal selection algorithm and Markov chain Monte Carlo method. Biomedical Signal Processing and Control, 2014, 12, 10-18.	5.7	23
50	Affective image classification by jointly using interpretable art features and semantic annotations. Journal of Visual Communication and Image Representation, 2019, 58, 576-588.	2.8	23
51	Deep Reinforcement Learning for Weakly-Supervised Lymph Node Segmentation in CT Images. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 774-783.	6.3	21
52	Foreground Fisher Vector: Encoding Class-Relevant Foreground to Improve Image Classification. IEEE Transactions on Image Processing, 2019, 28, 4716-4729.	9.8	20
53	MFI-Net: Multiscale Feature Interaction Network for Retinal Vessel Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4551-4562.	6.3	20
54	Automated Identification of Dementia Using FDG-PET Imaging. BioMed Research International, 2014, 2014, 1-8.	1.9	19

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55	Pairwise Latent Semantic Association for Similarity Computation in Medical Imaging. IEEE Transactions on Biomedical Engineering, 2016, 63, 1058-1069.	4.2	19
56	Anomaly Detection of Hyperspectral Image via Tensor Completion. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1099-1103.	3.1	17
57	Bidirectional cross-modality unsupervised domain adaptation using generative adversarial networks for cardiac image segmentation. Computers in Biology and Medicine, 2021, 136, 104726.	7.0	17
58	Intra- and Inter-Pair Consistency for Semi-Supervised Gland Segmentation. IEEE Transactions on Image Processing, 2022, 31, 894-905.	9.8	14
59	Impact of Mean Arterial Pressure Fluctuation on Mortality in Critically Ill Patients. Critical Care Medicine, 2018, 46, e1167-e1174.	0.9	13
60	Pairwise Relation Learning for Semi-supervised Gland Segmentation. Lecture Notes in Computer Science, 2020, , 417-427.	1.3	13
61	Robust generative asymmetric GMM for brain MR image segmentation. Computer Methods and Programs in Biomedicine, 2017, 151, 123-138.	4.7	12
62	A deep learning approach to segmentation of nasopharyngeal carcinoma using computed tomography. Biomedical Signal Processing and Control, 2021, 64, 102246.	5.7	12
63	Early Diagnosis of Alzheimerâ€™s Disease by Ensemble Deep Learning Using FDG-PET. Lecture Notes in Computer Science, 2018, , 614-622.	1.3	12
64	Learning From Ambiguous Labels for Lung Nodule Malignancy Prediction. IEEE Transactions on Medical Imaging, 2022, 41, 1874-1884.	8.9	12
65	SC2Net: A Novel Segmentation-Based Classification Network for Detection of COVID-19 in Chest X-Ray Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4032-4043.	6.3	12
66	Supervised machine learning for coronary artery lumen segmentation in intravascular ultrasound images. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3348.	2.1	10
67	Machine Learning in Multimodal Medical Imaging. BioMed Research International, 2017, 2017, 1-2.	1.9	9
68	2D and 3D Vascular Structures Enhancement Via Improved Vesselness Filter and Vessel Enhancing Diffusion. IEEE Access, 2019, 7, 123969-123980.	4.2	9
69	Neighborhood-Correction Algorithm for Classification of Normal and Malignant Cells. Lecture Notes in Bioengineering, 2019, , 73-82.	0.4	9
70	Brain voxel classification in magnetic resonance images using niche differential evolution based Bayesian inference of variational mixture of Gaussians. Neurocomputing, 2017, 269, 47-57.	5.9	9
71	Learning multi-scale synergic discriminative features for prostate image segmentation. Pattern Recognition, 2022, 126, 108556.	8.1	9
72	Dual-modality 3D brain PET-CT image segmentation based on probabilistic brain atlas and classification fusion. , 2010, , .		8

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73	Semi-supervised emotional classification of color images by learning from cloud. , 2015, , .		8
74	Validation of right coronary artery lumen area from cardiac computed tomography against intravascular ultrasound. Machine Vision and Applications, 2018, 29, 1287-1298.	2.7	8
75	Locality constrained encoding of frequency and spatial information for image classification. Multimedia Tools and Applications, 2018, 77, 24891-24907.	3.9	8
76	An iteratively reweighting algorithm for dynamic video summarization. Multimedia Tools and Applications, 2015, 74, 9449-9473.	3.9	7
77	Automatic Coronary Centerline Extraction Using Gradient Vector Flow Field and Fast Marching Method From CT Images. IEEE Access, 2018, 6, 41816-41826.	4.2	7
78	A cascaded nested network for 3T brain MR image segmentation guided by 7T labeling. Pattern Recognition, 2022, 124, 108420.	8.1	7
79	A clonal selection based approach to statistical brain voxel classification in magnetic resonance images. Neurocomputing, 2014, 134, 122-131.	5.9	5
80	Automatic Kernel Size Determination for Deep Neural Networks Based Hyperspectral Image Classification. Remote Sensing, 2018, 10, 415.	4.0	5
81	Normalized Non-Negative Sparse Encoder for Fast Image Representation. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1962-1972.	8.3	5
82	Clonal Selection Algorithm for Gaussian Mixture Model Based Segmentation of 3D Brain MR Images. Lecture Notes in Computer Science, 2012, , 295-302.	1.3	5
83	Collaborative Image Synthesis and Disease Diagnosis for Classification of Neurodegenerative Disorders with Incomplete Multi-modal Neuroimages. Lecture Notes in Computer Science, 2021, , 480-489.	1.3	4
84	Affective image classification via semi-supervised learning from web images. Multimedia Tools and Applications, 2018, 77, 30633-30650.	3.9	3
85	Fast-Convergent Fully Connected Deep Learning Model Using Constrained Nodes Input. Neural Processing Letters, 2019, 49, 995-1005.	3.2	3
86	CSA-DE/EDA: a Novel Bio-inspired Algorithm for Function Optimization and Segmentation of Brain MR Images. Cognitive Computation, 2019, 11, 855-868.	5.2	3
87	Ultimate Reconstruction: Understand Your Bones From Orthogonal Views. , 2021, , .		3
88	Efficient 3D Depthwise and Separable Convolutions with Dilation for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2019, , 563-573.	1.3	3
89	Differential Evolution Based Variational Bayes Inference for Brain PET-CT Image Segmentation. , 2011, , .		2
90	Retinal Image Quality Assessment via Specific Structures Segmentation. Lecture Notes in Computer Science, 2020, , 53-61.	1.3	2

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91	Computation Methods for Biomedical Information Analysis. Journal of Healthcare Engineering, 2018, 2018, 1-2.	1.9	1
92	View adaptive learning for pancreas segmentation. Biomedical Signal Processing and Control, 2021, 66, 102347.	5.7	1
93	Learning to Synthesize 7 T MRI from 3 T MRI with Few Data by Deformable Augmentation. Lecture Notes in Computer Science, 2021, , 70-79.	1.3	1
94	Automated Detection of the Occurrence and Changes of Hot-Spots in Intro-subject FDG-PET Images from Combined PET-CT Scanners. , 2010, , .		0
95	Jointly using computationally selected and clinically suggested cortical volumes for automated identification of mild cognitive impairment. , 2016, , .		0
96	VBI-MRF model for image segmentation. Multimedia Tools and Applications, 2018, 77, 13343-13361.	3.9	0
97	7T Guided 3T Brain Tissue Segmentation Using Cascaded Nested Network. , 2020, , .		0
98	Three-Dimensional Coronary Artery Centerline Extraction and Cross Sectional Lumen Quantification from CT Angiography Images. Lecture Notes in Computer Science, 2019, , 238-248.	1.3	0
99	Memory Network-Based Quality Normalization of Magnetic Resonance Images for Brain Segmentation. Lecture Notes in Computer Science, 2019, , 58-67.	1.3	0