

Yong Xia

List of Publications by Year in descending order

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99
papers

4,626
citations

117571

34
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64
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102
all docs

102
docs citations

102
times ranked

4233
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	9.7	33
2	A cascaded nested network for 3T brain MR image segmentation guided by 7T labeling. Pattern Recognition, 2022, 124, 108420.	5.1	7
3	Intra- and Inter-Pair Consistency for Semi-Supervised Gland Segmentation. IEEE Transactions on Image Processing, 2022, 31, 894-905.	6.0	14
4	Learning multi-scale synergic discriminative features for prostate image segmentation. Pattern Recognition, 2022, 126, 108556.	5.1	9
5	Learning From Ambiguous Labels for Lung Nodule Malignancy Prediction. IEEE Transactions on Medical Imaging, 2022, 41, 1874-1884.	5.4	12
6	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.	3.9	12
7	MFI-Net: Multiscale Feature Interaction Network for Retinal Vessel Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4551-4562.	3.9	20
8	Mutual consistency learning for semi-supervised medical image segmentation. Medical Image Analysis, 2022, 81, 102530.	7.0	39
9	Anomaly Detection of Hyperspectral Image via Tensor Completion. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1099-1103.	1.4	17
10	Multi-View Mammographic Density Classification by Dilated and Attention-Guided Residual Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1003-1013.	1.9	38
11	Deep Reinforcement Learning for Weakly-Supervised Lymph Node Segmentation in CT Images. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 774-783.	3.9	21
12	Viral Pneumonia Screening on Chest X-Rays Using Confidence-Aware Anomaly Detection. IEEE Transactions on Medical Imaging, 2021, 40, 879-890.	5.4	234
13	Triple attention learning for classification of 14 thoracic diseases using chest radiography. Medical Image Analysis, 2021, 67, 101846.	7.0	78
14	A deep learning approach to segmentation of nasopharyngeal carcinoma using computed tomography. Biomedical Signal Processing and Control, 2021, 64, 102246.	3.5	12
15	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.	1.9	114
16	Collaborative Image Synthesis and Disease Diagnosis for Classification of Neurodegenerative Disorders with Incomplete Multi-modal Neuroimages. Lecture Notes in Computer Science, 2021, , 480-489.	1.0	4
17	CoTr: Efficiently Bridging CNN and Transformer for 3D Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 171-180.	1.0	172
18	Inter-Slice Context Residual Learning for 3D Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 661-672.	5.4	66

#	ARTICLE	IF	CITATIONS
19	View adaptive learning for pancreas segmentation. Biomedical Signal Processing and Control, 2021, 66, 102347.	3.5	1
20	Ultimate Reconstruction: Understand Your Bones From Orthogonal Views. , 2021, , .		3
21	Multiscale attention guided U-Net architecture for cardiac segmentation in short-axis MRI images. Computer Methods and Programs in Biomedicine, 2021, 206, 106142.	2.6	33
22	Iterative sparse and deep learning for accurate diagnosis of Alzheimer's disease. Pattern Recognition, 2021, 116, 107944.	5.1	36
23	Bidirectional cross-modality unsupervised domain adaptation using generative adversarial networks for cardiac image segmentation. Computers in Biology and Medicine, 2021, 136, 104726.	3.9	17
24	Learning to Synthesize 7 T MRI from 3 T MRI with Few Data by Deformable Augmentation. Lecture Notes in Computer Science, 2021, , 70-79.	1.0	1
25	SESV: Accurate Medical Image Segmentation by Predicting and Correcting Errors. IEEE Transactions on Medical Imaging, 2021, 40, 286-296.	5.4	49
26	DoDNet: Learning to Segment Multi-Organ and Tumors from Multiple Partially Labeled Datasets. , 2021, , .		61
27	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.	3.9	66
28	3D APA-Net: 3D Adversarial Pyramid Anisotropic Convolutional Network for Prostate Segmentation in MR Images. IEEE Transactions on Medical Imaging, 2020, 39, 447-457.	5.4	74
29	Autonomous deep learning: A genetic DCNN designer for image classification. Neurocomputing, 2020, 379, 152-161.	3.5	65
30	7T Guided 3T Brain Tissue Segmentation Using Cascaded Nested Network. , 2020, , .		0
31	Supervised machine learning for coronary artery lumen segmentation in intravascular ultrasound images. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3348.	1.0	10
32	NFN ^{3/4} : A novel network followed network for retinal vessel segmentation. Neural Networks, 2020, 126, 153-162.	3.3	119
33	Spatially-Constrained Fisher Representation for Brain Disease Identification With Incomplete Multi-Modal Neuroimages. IEEE Transactions on Medical Imaging, 2020, 39, 2965-2975.	5.4	52
34	A Mutual Bootstrapping Model for Automated Skin Lesion Segmentation and Classification. IEEE Transactions on Medical Imaging, 2020, 39, 2482-2493.	5.4	206
35	Pairwise Relation Learning for Semi-supervised Gland Segmentation. Lecture Notes in Computer Science, 2020, , 417-427.	1.0	13
36	Retinal Image Quality Assessment via Specific Structures Segmentation. Lecture Notes in Computer Science, 2020, , 53-61.	1.0	2

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37	Normalized Non-Negative Sparse Encoder for Fast Image Representation. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1962-1972.	5.6	5
38	Fast-Convergent Fully Connected Deep Learning Model Using Constrained Nodes Input. Neural Processing Letters, 2019, 49, 995-1005.	2.0	3
39	CSA-DE/EDA: a Novel Bio-inspired Algorithm for Function Optimization and Segmentation of Brain MR Images. Cognitive Computation, 2019, 11, 855-868.	3.6	3
40	EMS-Net: Ensemble of Multiscale Convolutional Neural Networks for Classification of Breast Cancer Histology Images. Neurocomputing, 2019, 366, 46-53.	3.5	76
41	Semi-supervised adversarial model for benign-malignant lung nodule classification on chest CT. Medical Image Analysis, 2019, 57, 237-248.	7.0	133
42	2D and 3D Vascular Structures Enhancement Via Improved Vesselness Filter and Vessel Enhancing Diffusion. IEEE Access, 2019, 7, 123969-123980.	2.6	9
43	Attention Residual Learning for Skin Lesion Classification. IEEE Transactions on Medical Imaging, 2019, 38, 2092-2103.	5.4	362
44	M3Net: A multi-model, multi-size, and multi-view deep neural network for brain magnetic resonance image segmentation. Pattern Recognition, 2019, 91, 366-378.	5.1	44
45	Foreground Fisher Vector: Encoding Class-Relevant Foreground to Improve Image Classification. IEEE Transactions on Image Processing, 2019, 28, 4716-4729.	6.0	20
46	Medical image classification using synergic deep learning. Medical Image Analysis, 2019, 54, 10-19.	7.0	252
47	Affective image classification by jointly using interpretable art features and semantic annotations. Journal of Visual Communication and Image Representation, 2019, 58, 576-588.	1.7	23
48	Knowledge-based Collaborative Deep Learning for Benign-Malignant Lung Nodule Classification on Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 991-1004.	5.4	317
49	Disease-Image Specific Generative Adversarial Network for Brain Disease Diagnosis with Incomplete Multi-modal Neuroimages. Lecture Notes in Computer Science, 2019, , 137-145.	1.0	26
50	Neighborhood-Correction Algorithm for Classification of Normal and Malignant Cells. Lecture Notes in Bioengineering, 2019, , 73-82.	0.3	9
51	Light-Weight Hybrid Convolutional Network for Liver Tumor Segmentation. , 2019, , .		67
52	Deep Segmentation-Emendation Model for Gland Instance Segmentation. Lecture Notes in Computer Science, 2019, , 469-477.	1.0	24
53	Three-Dimensional Coronary Artery Centerline Extraction and Cross Sectional Lumen Quantification from CT Angiography Images. Lecture Notes in Computer Science, 2019, , 238-248.	1.0	0
54	Memory Network-Based Quality Normalization of Magnetic Resonance Images for Brain Segmentation. Lecture Notes in Computer Science, 2019, , 58-67.	1.0	0

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55	Efficient 3D Depthwise and Separable Convolutions with Dilation for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2019, , 563-573.	1.0	3
56	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.	3.9	84
57	Pulmonary nodule detection in medical images: A survey. Biomedical Signal Processing and Control, 2018, 43, 138-147.	3.5	61
58	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.	11.7	185
59	Atlas registration and ensemble deep convolutional neural network-based prostate segmentation using magnetic resonance imaging. Neurocomputing, 2018, 275, 1358-1369.	3.5	68
60	VBI-MRF model for image segmentation. Multimedia Tools and Applications, 2018, 77, 13343-13361.	2.6	0
61	Computation Methods for Biomedical Information Analysis. Journal of Healthcare Engineering, 2018, 1-2.	1.1	1
62	Person Re-Identification With Triplet Focal Loss. IEEE Access, 2018, 6, 78092-78099.	2.6	27
63	Impact of Mean Arterial Pressure Fluctuation on Mortality in Critically Ill Patients. Critical Care Medicine, 2018, 46, e1167-e1174.	0.4	13
64	Synthesizing Missing PET from MRI with Cycle-consistent Generative Adversarial Networks for Alzheimer's Disease Diagnosis. Lecture Notes in Computer Science, 2018, 11072, 455-463.	1.0	80
65	Validation of right coronary artery lumen area from cardiac computed tomography against intravascular ultrasound. Machine Vision and Applications, 2018, 29, 1287-1298.	1.7	8
66	Skin Lesion Classification in Dermoscopy Images Using Synergic Deep Learning. Lecture Notes in Computer Science, 2018, , 12-20.	1.0	38
67	Affective image classification via semi-supervised learning from web images. Multimedia Tools and Applications, 2018, 77, 30633-30650.	2.6	3
68	Automatic Coronary Centerline Extraction Using Gradient Vector Flow Field and Fast Marching Method From CT Images. IEEE Access, 2018, 6, 41816-41826.	2.6	7
69	Automatic Kernel Size Determination for Deep Neural Networks Based Hyperspectral Image Classification. Remote Sensing, 2018, 10, 415.	1.8	5
70	Locality constrained encoding of frequency and spatial information for image classification. Multimedia Tools and Applications, 2018, 77, 24891-24907.	2.6	8
71	NODULe: Combining constrained multi-scale LoG filters with densely dilated 3D deep convolutional neural network for pulmonary nodule detection. Neurocomputing, 2018, 317, 159-167.	3.5	46
72	Early Diagnosis of Alzheimer's Disease by Ensemble Deep Learning Using FDG-PET. Lecture Notes in Computer Science, 2018, , 614-622.	1.0	12

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73	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.	3.5	28
74	Cell image segmentation using bacterial foraging optimization. Applied Soft Computing Journal, 2017, 58, 770-782.	4.1	26
75	Robust generative asymmetric GMM for brain MR image segmentation. Computer Methods and Programs in Biomedicine, 2017, 151, 123-138.	2.6	12
76	Machine Learning in Multimodal Medical Imaging. BioMed Research International, 2017, 2017, 1-2.	0.9	9
77	A tribe competition-based genetic algorithm for feature selection in pattern classification. Applied Soft Computing Journal, 2017, 58, 328-338.	4.1	73
78	Brain voxel classification in magnetic resonance images using niche differential evolution based Bayesian inference of variational mixture of Gaussians. Neurocomputing, 2017, 269, 47-57.	3.5	9
79	A robust modified Gaussian mixture model with rough set for image segmentation. Neurocomputing, 2017, 266, 550-565.	3.5	31
80	Jointly using computationally selected and clinically suggested cortical volumes for automated identification of mild cognitive impairment. , 2016, , .		0
81	Brain MRI image segmentation based on learning local variational Gaussian mixture models. Neurocomputing, 2016, 204, 189-197.	3.5	39
82	Automated identification of dementia using medical imaging: a survey from a pattern classification perspective. Brain Informatics, 2016, 3, 17-27.	1.8	35
83	Pairwise Latent Semantic Association for Similarity Computation in Medical Imaging. IEEE Transactions on Biomedical Engineering, 2016, 63, 1058-1069.	2.5	19
84	Semi-supervised emotional classification of color images by learning from cloud. , 2015, , .		8
85	Active contours driven by local likelihood image fitting energy for image segmentation. Information Sciences, 2015, 301, 285-304.	4.0	85
86	An iteratively reweighting algorithm for dynamic video summarization. Multimedia Tools and Applications, 2015, 74, 9449-9473.	2.6	7
87	Automated Identification of Dementia Using FDG-PET Imaging. BioMed Research International, 2014, 2014, 1-8.	0.9	19
88	Adaptive scale fuzzy local Gaussian mixture model for brain MR image segmentation. Neurocomputing, 2014, 134, 60-69.	3.5	51
89	A clonal selection based approach to statistical brain voxel classification in magnetic resonance images. Neurocomputing, 2014, 134, 122-131.	3.5	5
90	Electron microscopy of laser capsulotomy edge: Interplatform comparison. Journal of Cataract and Refractive Surgery, 2014, 40, 1382-1389.	0.7	28

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91	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.	3.5	23
92	Generalized rough fuzzy c-means algorithm for brain MR image segmentation. Computer Methods and Programs in Biomedicine, 2012, 108, 644-655.	2.6	77
93	Fuzzy c-means clustering with weighted image patch for image segmentation. Applied Soft Computing Journal, 2012, 12, 1659-1667.	4.1	105
94	Fuzzy Local Gaussian Mixture Model for Brain MR Image Segmentation. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 339-347.	3.6	96
95	Clonal Selection Algorithm for Gaussian Mixture Model Based Segmentation of 3D Brain MR Images. Lecture Notes in Computer Science, 2012, , 295-302.	1.0	5
96	Differential Evolution Based Variational Bayes Inference for Brain PET-CT Image Segmentation. , 2011, , .		2
97	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.	3.6	71
98	Dual-modality 3D brain PET-CT image segmentation based on probabilistic brain atlas and classification fusion. , 2010, , .		8
99	Automated Detection of the Occurrence and Changes of Hot-Spots in Intro-subject FDG-PET Images from Combined PET-CT Scanners. , 2010, , .		0