Yong Xia

List of Publications by Year in descending order

99 papers	4,626 citations	117453 34 h-index	110170 64 g-index
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

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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 Alzheimerâ€™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	NFNï¼‹: 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 benignâ€“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, 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 Alzheimerâ€™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 Alzheimerâ€™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