Yang Song

List of Publications by Year
in descending order

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116	2,502	257450	265206
papers	citations	24	42
		h-index	g-index

119	119	119	2427
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Feature-Based Image Patch Approximation for Lung Tissue Classification. IEEE Transactions on Medical Imaging, 2013, 32, 797-808.	8.9	143
3	NFNï¼‹: A novel network followed network for retinal vessel segmentation. Neural Networks, 2020, 126, 153-162.	5.9	119
4	Multiscale Network Followed Network Model for Retinal Vessel Segmentation. Lecture Notes in Computer Science, 2018, , 119-126.	1.3	100
5	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
6	Lung Nodule Classification With Multilevel Patch-Based Context Analysis. IEEE Transactions on Biomedical Engineering, 2014, 61, 1155-1166.	4.2	72
7	Whole brain white matter connectivity analysis using machine learning: An application to autism. NeuroImage, 2018, 172, 826-837.	4.2	70
8	Vessel-Net: Retinal Vessel Segmentation Under Multi-path Supervision. Lecture Notes in Computer Science, 2019, , 264-272.	1.3	69
9	Atlas registration and ensemble deep convolutional neural network-based prostate segmentation using magnetic resonance imaging. Neurocomputing, 2018, 275, 1358-1369.	5.9	68
10	Large Margin Local Estimate With Applications to Medical Image Classification. IEEE Transactions on Medical Imaging, 2015, 34, 1362-1377.	8.9	66
11	Multi-Pass Fast Watershed for Accurate Segmentation of Overlapping Cervical Cells. IEEE Transactions on Medical Imaging, 2018, 37, 2044-2059.	8.9	64
12	A Multistage Discriminative Model for Tumor and Lymph Node Detection in Thoracic Images. IEEE Transactions on Medical Imaging, 2012, 31, 1061-1075.	8.9	51
13	Automatic segmentation of overlapping cervical smear cells based on local distinctive features and guided shape deformation. Neurocomputing, 2017, 221, 94-107.	5.9	51
14	Unsupervised Instance Segmentation in Microscopy Images via Panoptic Domain Adaptation and Task Re-Weighting. , 2020, , .		49
15	Adapting fisher vectors for histopathology image classification. , 2017, , .		48
16	Optimizing the cervix cytological examination based on deep learning and dynamic shape modeling. Neurocomputing, 2017, 248, 28-40.	5.9	46
17	Automated 3-D Neuron Tracing With Precise Branch Erasing and Confidence Controlled Back Tracking. IEEE Transactions on Medical Imaging, 2018, 37, 2441-2452.	8.9	45
18	Learning to Recommend With Multiple Cascading Behaviors. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2588-2601.	5.7	39

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19	Nuclei Segmentation via a Deep Panoptic Model with Semantic Feature Fusion. , 2019, , .		36
20	Low Dimensional Representation of Fisher Vectors for Microscopy Image Classification. IEEE Transactions on Medical Imaging, 2017, 36, 1636-1649.	8.9	34
21	Panoptic Feature Fusion Net: A Novel Instance Segmentation Paradigm for Biomedical and Biological Images. IEEE Transactions on Image Processing, 2021, 30, 2045-2059.	9.8	32
22	Locally-Transferred Fisher Vectors for Texture Classification. , 2017, , .		31
23	Panoptic Segmentation with an End-to-End Cell R-CNN for Pathology Image Analysis. Lecture Notes in Computer Science, 2018, , 237-244.	1.3	29
24	Locality-constrained Subcluster Representation Ensemble for lung image classification. Medical Image Analysis, 2015, 22, 102-113.	11.6	28
25	Region-based progressive localization of cell nuclei in microscopic images with data adaptive modeling. BMC Bioinformatics, 2013, 14, 173.	2.6	27
26	Dictionary pruning with visual word significance for medical image retrieval. Neurocomputing, 2016, 177, 75-88.	5.9	27
27	MS-GAN: GAN-Based Semantic Segmentation of Multiple Sclerosis Lesions in Brain Magnetic Resonance Imaging. , 2018, , .		27
28	Supervised Intra-embedding of Fisher Vectors for Histopathology Image Classification. Lecture Notes in Computer Science, 2017, , 99-106.	1.3	26
29	Suprathreshold fiber cluster statistics: Leveraging white matter geometry to enhance tractography statistical analysis. NeuroImage, 2018, 171, 341-354.	4.2	26
30	Lesion Detection and Characterization With Context Driven Approximation in Thoracic FDG PET-CT Images of NSCLC Studies. IEEE Transactions on Medical Imaging, 2014, 33, 408-421.	8.9	25
31	Segmenting Neuronal Structure in 3D Optical Microscope Images via Knowledge Distillation with Teacher-Student Network. , 2019, , .		24
32	Multifold Bayesian Kernelization in Alzheimerâ€™s Diagnosis. Lecture Notes in Computer Science, 2013, 16, 303-310.	1.3	24
33	A supervised multiview spectral embedding method for neuroimaging classification. , 2013, , .		21
34	Texture image classification with discriminative neural networks. Computational Visual Media, 2016, 2, 367-377.	17.5	21
35	Bioimage classification with subcategory discriminant transform of high dimensional visual descriptors. BMC Bioinformatics, 2016, 17, 465.	2.6	19
36	Pairwise Latent Semantic Association for Similarity Computation in Medical Imaging. IEEE Transactions on Biomedical Engineering, 2016, 63, 1058-1069.	4.2	19

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37	Automatic nuclei and cytoplasm segmentation of leukocytes with color and texture-based image enhancement. , 2016, , .		18
38	Feature learning with component selective encoding for histopathology image classification. , 2018, , .		18
39	Nuclei instance segmentation with dual contour-enhanced adversarial network. , 2018, , .		18
40	A content-based image retrieval framework for multi-modality lung images. , 2010, , .		16
41	Thoracic image case retrieval with spatial and contextual information. , 2011, , .		16
42	Location classification of lung nodules with optimized graph construction. , 2012, , .		16
43	Context Curves for Classification of Lung Nodule Images. , 2013, , .		16
44	Automated 3D Soma Segmentation with Morphological Surface Evolution for Neuron Reconstruction. Neuroinformatics, 2018, 16, 153-166.	2.8	15
45	Hierarchical spatial matching for medical image retrieval. , 2011, , .		14
46	Edge Guided Progressively Generative Image Outpainting. , 2021, , .		14
47	Automated three-stage nucleus and cytoplasm segmentation of overlapping cells. , 2014, , .		13
48	Fourier Transform to Group Feature on Generated Coarser Contours for Fast 2D Shape Matching. IEEE Access, 2020, 8, 90141-90152.	4.2	13
49	Deep learning methods for automatic segmentation of lower leg muscles and bones from MRI scans of children with and without cerebral palsy. NMR in Biomedicine, 2021, 34, e4609.	2.8	13
50	Triple-Crossing 2.5D Convolutional Neural Network for Detecting Neuronal Arbours in 3D Microscopic Images. Lecture Notes in Computer Science, 2017, , 185-193.	1.3	13
51	Overlapping node discovery for improving classification of lung nodules. , 2013, 2013, 5461-4.		12
52	Speech-based Gesture Generation for Robots and Embodied Agents: A Scoping Review. , 2021, , .		12
53	Object localization in medical images based on graphical model with contrast and interest-region terms. , 2012, , .		11
54	Pathology-centric medical image retrieval with hierarchical contextual spatial descriptor. , 2013, , .		11

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55	Automated multi-stage segmentation of white blood cells via optimizing color processing. , 2017, , .		11
56	Bone texture characterization with fisher encoding of local descriptors. , 2015, , .		9
57	Multiscale Kernels for Enhanced U-Shaped Network to Improve 3D Neuron Tracing. , 2019, , .		9
58	Deep Fiber Clustering: Anatomically Informed Unsupervised Deep Learning for Fast and Effective White Matter Parcellation. Lecture Notes in Computer Science, 2021, , 497-507.	1.3	9
59	Discriminative Pathological Context Detection in Thoracic Images Based on Multi-level Inference. Lecture Notes in Computer Science, 2011, 14, 191-198.	1.3	9
60	Cell nuclei segmentation in fluorescence microscopy images using inter- and intra-region discriminative information. , 2013, 2013, 6087-90.		8
61	Localized Sparse Code Gradient in Alzheimer's disease staging. , 2013, 2013, 5398-401.		8
62	Morphological Filtering and Hierarchical Deformation for Partially Overlapping Cell Segmentation. , 2015, , .		8
63	Fiber clustering based white matter connectivity analysis for prediction of Autism Spectrum Disorder using diffusion tensor imaging. , 2016, , .		8
64	Memory and Time Efficient 3D Neuron Morphology Tracing in Large-Scale Images. , 2018, , .		8
65	Locality constrained encoding of frequency and spatial information for image classification. Multimedia Tools and Applications, 2018, 77, 24891-24907.	3.9	8
66	Biological impact of nanodiamond particles â€“ label free, high-resolution methods for nanotoxicity assessment. Nanotoxicology, 2019, 13, 1210-1226.	3.0	8
67	Discriminative Data Transform for Image Feature Extraction and Classification. Lecture Notes in Computer Science, 2013, 16, 452-459.	1.3	8
68	Comparison between two white matter segmentation strategies: An investigation into white matter segmentation consistency. , 2017, , .		7
69	Celltrack R-CNN: A Novel End-To-End Deep Neural Network For Cell Segmentation And Tracking In Microscopy Images. , 2021, , .		7
70	ICE-GAN: Identity-Aware and Capsule-Enhanced GAN with Graph-Based Reasoning for Micro-Expression Recognition and Synthesis. , 2021, , .		7
71	Histopathology Image Categorization with Discriminative Dimension Reduction of Fisher Vectors. Lecture Notes in Computer Science, 2016, , 306-317.	1.3	7
72	3D Large Kernel Anisotropic Network for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2018, , 444-454.	1.3	7

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73	Supwma: Consistent and Efficient Tractography Parcellation of Superficial White Matter with Deep Learning. , 2022, , .		7
74	Structure-Adaptive Feature Extraction and Representation for Multi-modality Lung Images Retrieval. , 2010, , .		6
75	Fusing subcategory probabilities for texture classification. , 2015, , .		6
76	Merged region based image retrieval. Journal of Visual Communication and Image Representation, 2018, 55, 572-585.	2.8	6
77	Texture Enhanced Generative Adversarial Network For Stain Normalisation In Histopathology Images. , 2021, , .		6
78	Thoracic image matching with appearance and spatial distribution. , 2011, 2011, 4469-72.		5
79	Microscopic Image Segmentation with Two-Level Enhancement of Feature Discriminability. , 2012, , .		5
80	Graph cuts based relevance feedback in image retrieval. , 2013, , .		5
81	3D Conditional Adversarial Learning for Synthesizing Microscopic Neuron Image Using Skeleton-to-Neuron Translation. , 2020, , .		5
82	Regression and classification based distance metric learning for medical image retrieval. , 2012, , .		4
83	Hierarchical and binary spatial descriptors for lung nodule image retrieval. , 2014, 2014, 6463-6.		4
84	Large Margin Aggregation of Local Estimates for Medical Image Classification. Lecture Notes in Computer Science, 2014, 17, 196-203.	1.3	4
85	Automatic 3D Single Neuron Reconstruction with Exhaustive Tracing. , 2017, , .		4
86	Estimation of three-dimensional chromatin morphology for nuclear classification and characterisation. Scientific Reports, 2021, 11, 3364.	3.3	4
87	Multi-Label Classification Based On Subcellular Region-Guided Feature Description For Protein Localisation. , 2021, , .		4
88	Single Neuron Segmentation Using Graph-Based Global Reasoning with Auxiliary Skeleton Loss from 3D Optical Microscope Images. , 2021, , .		4
89	Towards bi-directional skip connections in encoder-decoder architectures and beyond. Medical Image Analysis, 2022, 78, 102420.	11.6	4
90	Global context inference for adaptive abnormality detection in PET-CT images. , 2012, , .		3

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91	Fully automated scoring of chest radiographs in cystic fibrosis. , 2013, 2013, 3965-8.		3
92	Clique Identification and Propagation for Multimodal Brain Tumor Image Segmentation. Lecture Notes in Computer Science, 2016, , 285-294.	1.3	3
93	Voxel-Wise Cross-Volume Representation Learning for 3D Neuron Reconstruction. Lecture Notes in Computer Science, 2021, , 248-257.	1.3	3
94	Similarity Guided Feature Labeling for Lesion Detection. Lecture Notes in Computer Science, 2013, 16, 284-291.	1.3	3
95	USYD/HES-SO in the VISCERAL RetrievalÂBenchmark. Lecture Notes in Computer Science, 2015, , 139-143.	1.3	3
96	Efficient 3D Depthwise and Separable Convolutions with Dilation for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2019, , 563-573.	1.3	3
97	Towards Enforcing Social Distancing Regulations with Occlusion-Aware Crowd Detection. , 2020, , .		3
98	Imbalanced Cell-Cycle Classification Using Wgan-Div and Mixup. , 2022, , .		3
99	Latent Semantic Association for Medical Image Retrieval. , 2014, , .		2
100	Visual feature representation in microscopy image classification. , 2021, , 73-100.		2
101	Learning Shape-Driven Segmentation Based on Neural Network and Sparse Reconstruction Toward Automated Cell Analysis of Cervical Smears. Lecture Notes in Computer Science, 2015, , 390-400.	1.3	2
102	Two-Stage Topological Refinement Network for Retinal Artery/Vein Classification. , 2022, , .		2
103	Beating cilia identification in fluorescence microscope images for accurate CBF measurement. , 2015, , .		1
104	Dual discriminative local coding for tissue aging analysis. Medical Image Analysis, 2017, 38, 65-76.	11.6	1
105	Multi-sensor image fusion based on regional characteristics. International Journal of Distributed Sensor Networks, 2017, 13, 155014771774110.	2.2	1
106	Region and Learning based Retrieval for Multi-Modality Medical Images. , 2011, , .		1
107	An Improved Discriminator for GAN-Based Trajectory Prediction Models. , 2020, , .		1
108	Dual-Stage Domain Adaptive Mitosis Detection for Histopathology Images. , 2020, , .		1

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109	Texture analysis of tissue aging using global and cluster constrained local coding. , 2016, , .		0
110	Assessment and Elimination of Inflammatory Cell: A Machine Learning Approach in Digital Cytology. , 2019, , .		0
111	Iterative Subnetwork With Linear Hierarchical Ordering for Human Pose Estimation. , 2021, , .		0
112	Context Enhanced Graphical Model for Object Localization in Medical Images. Lecture Notes in Computer Science, 2013, , 194-205.	1.3	0
113	Supra-Threshold Fiber Cluster Statistics for Data-Driven Whole Brain Tractography Analysis. Lecture Notes in Computer Science, 2017, , 556-565.	1.3	0
114	Automated Analysis of Chest Radiographs for Cystic Fibrosis Scoring. Lecture Notes in Computer Science, 2018, , 227-236.	1.3	0
115	Imbalanced Histopathology Image Classification Using Deep Feature Graph Attention Network. , 2022, , .		0
116	Parallel Sinogram and Image Framework With Co-Training Strategy for Metal Artifact Reduction in Tooth Ct Images. , 2022, , .		0