

Yang Song

List of Publications by Year in descending order

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116
papers

2,502
citations

257450

24
h-index

265206

42
g-index

119
all docs

119
docs citations

119
times ranked

2427
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards bi-directional skip connections in encoder-decoder architectures and beyond. Medical Image Analysis, 2022, 78, 102420.	11.6	4
2	Imbalanced Cell-Cycle Classification Using Wgan-Div and Mixup. , 2022, , .		3
3	Supwma: Consistent and Efficient Tractography Parcellation of Superficial White Matter with Deep Learning. , 2022, , .		7
4	Two-Stage Topological Refinement Network for Retinal Artery/Vein Classification. , 2022, , .		2
5	Imbalanced Histopathology Image Classification Using Deep Feature Graph Attention Network. , 2022, , .		0
6	Parallel Sinogram and Image Framework With Co-Training Strategy for Metal Artifact Reduction in Tooth Ct Images. , 2022, , .		0
7	Learning to Recommend With Multiple Cascading Behaviors. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2588-2601.	5.7	39
8	Visual feature representation in microscopy image classification. , 2021, , 73-100.		2
9	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
10	Estimation of three-dimensional chromatin morphology for nuclear classification and characterisation. Scientific Reports, 2021, 11, 3364.	3.3	4
11	Multi-Label Classification Based On Subcellular Region-Guided Feature Description For Protein Localisation. , 2021, , .		4
12	Celltrack R-CNN: A Novel End-To-End Deep Neural Network For Cell Segmentation And Tracking In Microscopy Images. , 2021, , .		7
13	Single Neuron Segmentation Using Graph-Based Global Reasoning with Auxiliary Skeleton Loss from 3D Optical Microscope Images. , 2021, , .		4
14	Texture Enhanced Generative Adversarial Network For Stain Normalisation In Histopathology Images. , 2021, , .		6
15	Edge Guided Progressively Generative Image Outpainting. , 2021, , .		14
16	ICE-GAN: Identity-Aware and Capsule-Enhanced GAN with Graph-Based Reasoning for Micro-Expression Recognition and Synthesis. , 2021, , .		7
17	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
18	Iterative Subnetwork With Linear Hierarchical Ordering for Human Pose Estimation. , 2021, , .		0

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19	Voxel-Wise Cross-Volume Representation Learning for 3D Neuron Reconstruction. Lecture Notes in Computer Science, 2021, , 248-257.	1.3	3
20	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
21	Speech-based Gesture Generation for Robots and Embodied Agents: A Scoping Review. , 2021, , .		12
22	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
23	Fourier Transform to Group Feature on Generated Coarser Contours for Fast 2D Shape Matching. IEEE Access, 2020, 8, 90141-90152.	4.2	13
24	Unsupervised Instance Segmentation in Microscopy Images via Panoptic Domain Adaptation and Task Re-Weighting. , 2020, , .		49
25	3D Conditional Adversarial Learning for Synthesizing Microscopic Neuron Image Using Skeleton-to-Neuron Translation. , 2020, , .		5
26	NFN¼: A novel network followed network for retinal vessel segmentation. Neural Networks, 2020, 126, 153-162.	5.9	119
27	Towards Enforcing Social Distancing Regulations with Occlusion-Aware Crowd Detection. , 2020, , .		3
28	An Improved Discriminator for GAN-Based Trajectory Prediction Models. , 2020, , .		1
29	Dual-Stage Domain Adaptive Mitosis Detection for Histopathology Images. , 2020, , .		1
30	Segmenting Neuronal Structure in 3D Optical Microscope Images via Knowledge Distillation with Teacher-Student Network. , 2019, , .		24
31	Biological impact of nanodiamond particles " label free, high-resolution methods for nanotoxicity assessment. Nanotoxicology, 2019, 13, 1210-1226.	3.0	8
32	Multiscale Kernels for Enhanced U-Shaped Network to Improve 3D Neuron Tracing. , 2019, , .		9
33	Assessment and Elimination of Inflammatory Cell: A Machine Learning Approach in Digital Cytology. , 2019, , .		0
34	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
35	Vessel-Net: Retinal Vessel Segmentation Under Multi-path Supervision. Lecture Notes in Computer Science, 2019, , 264-272.	1.3	69
36	Nuclei Segmentation via a Deep Panoptic Model with Semantic Feature Fusion. , 2019, , .		36

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37	Efficient 3D Depthwise and Separable Convolutions with Dilation for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2019, , 563-573.	1.3	3
38	Automated 3D Soma Segmentation with Morphological Surface Evolution for Neuron Reconstruction. Neuroinformatics, 2018, 16, 153-166.	2.8	15
39	Suprathreshold fiber cluster statistics: Leveraging white matter geometry to enhance tractography statistical analysis. NeuroImage, 2018, 171, 341-354.	4.2	26
40	Multi-Pass Fast Watershed for Accurate Segmentation of Overlapping Cervical Cells. IEEE Transactions on Medical Imaging, 2018, 37, 2044-2059.	8.9	64
41	Whole brain white matter connectivity analysis using machine learning: An application to autism. NeuroImage, 2018, 172, 826-837.	4.2	70
42	Atlas registration and ensemble deep convolutional neural network-based prostate segmentation using magnetic resonance imaging. Neurocomputing, 2018, 275, 1358-1369.	5.9	68
43	MS-GAN: GAN-Based Semantic Segmentation of Multiple Sclerosis Lesions in Brain Magnetic Resonance Imaging. , 2018, , .		27
44	Memory and Time Efficient 3D Neuron Morphology Tracing in Large-Scale Images. , 2018, , .		8
45	Multiscale Network Followed Network Model for Retinal Vessel Segmentation. Lecture Notes in Computer Science, 2018, , 119-126.	1.3	100
46	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
47	Feature learning with component selective encoding for histopathology image classification. , 2018, , .		18
48	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
49	Merged region based image retrieval. Journal of Visual Communication and Image Representation, 2018, 55, 572-585.	2.8	6
50	Locality constrained encoding of frequency and spatial information for image classification. Multimedia Tools and Applications, 2018, 77, 24891-24907.	3.9	8
51	Nuclei instance segmentation with dual contour-enhanced adversarial network. , 2018, , .		18
52	Automated Analysis of Chest Radiographs for Cystic Fibrosis Scoring. Lecture Notes in Computer Science, 2018, , 227-236.	1.3	0
53	3D Large Kernel Anisotropic Network for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2018, , 444-454.	1.3	7
54	Optimizing the cervix cytological examination based on deep learning and dynamic shape modeling. Neurocomputing, 2017, 248, 28-40.	5.9	46

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55	Dual discriminative local coding for tissue aging analysis. Medical Image Analysis, 2017, 38, 65-76.	11.6	1
56	Automated multi-stage segmentation of white blood cells via optimizing color processing. , 2017, , .		11
57	Low Dimensional Representation of Fisher Vectors for Microscopy Image Classification. IEEE Transactions on Medical Imaging, 2017, 36, 1636-1649.	8.9	34
58	Supervised Intra-embedding of Fisher Vectors for Histopathology Image Classification. Lecture Notes in Computer Science, 2017, , 99-106.	1.3	26
59	Adapting fisher vectors for histopathology image classification. , 2017, , .		48
60	Comparison between two white matter segmentation strategies: An investigation into white matter segmentation consistency. , 2017, , .		7
61	Automatic segmentation of overlapping cervical smear cells based on local distinctive features and guided shape deformation. Neurocomputing, 2017, 221, 94-107.	5.9	51
62	Multi-sensor image fusion based on regional characteristics. International Journal of Distributed Sensor Networks, 2017, 13, 155014771774110.	2.2	1
63	Locally-Transferred Fisher Vectors for Texture Classification. , 2017, , .		31
64	Automatic 3D Single Neuron Reconstruction with Exhaustive Tracing. , 2017, , .		4
65	Triple-Crossing 2.5D Convolutional Neural Network for Detecting Neuronal Arbores in 3D Microscopic Images. Lecture Notes in Computer Science, 2017, , 185-193.	1.3	13
66	Supra-Threshold Fiber Cluster Statistics for Data-Driven Whole Brain Tractography Analysis. Lecture Notes in Computer Science, 2017, , 556-565.	1.3	0
67	Fiber clustering based white matter connectivity analysis for prediction of Autism Spectrum Disorder using diffusion tensor imaging. , 2016, , .		8
68	Bioimage classification with subcategory discriminant transform of high dimensional visual descriptors. BMC Bioinformatics, 2016, 17, 465.	2.6	19
69	Texture image classification with discriminative neural networks. Computational Visual Media, 2016, 2, 367-377.	17.5	21
70	Texture analysis of tissue aging using global and cluster constrained local coding. , 2016, , .		0
71	Clique Identification and Propagation for Multimodal Brain Tumor Image Segmentation. Lecture Notes in Computer Science, 2016, , 285-294.	1.3	3
72	Automatic nuclei and cytoplasm segmentation of leukocytes with color and texture-based image enhancement. , 2016, , .		18

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73	Dictionary pruning with visual word significance for medical image retrieval. Neurocomputing, 2016, 177, 75-88.	5.9	27
74	Pairwise Latent Semantic Association for Similarity Computation in Medical Imaging. IEEE Transactions on Biomedical Engineering, 2016, 63, 1058-1069.	4.2	19
75	Histopathology Image Categorization with Discriminative Dimension Reduction of Fisher Vectors. Lecture Notes in Computer Science, 2016, , 306-317.	1.3	7
76	Morphological Filtering and Hierarchical Deformation for Partially Overlapping Cell Segmentation. , 2015, , .		8
77	Beating cilia identification in fluorescence microscope images for accurate CBF measurement. , 2015, , .		1
78	Fusing subcategory probabilities for texture classification. , 2015, , .		6
79	Locality-constrained Subcluster Representation Ensemble for lung image classification. Medical Image Analysis, 2015, 22, 102-113.	11.6	28
80	Large Margin Local Estimate With Applications to Medical Image Classification. IEEE Transactions on Medical Imaging, 2015, 34, 1362-1377.	8.9	66
81	Bone texture characterization with fisher encoding of local descriptors. , 2015, , .		9
82	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
83	USYD/HES-SO in the VISCERAL Retrieval Benchmark. Lecture Notes in Computer Science, 2015, , 139-143.	1.3	3
84	Hierarchical and binary spatial descriptors for lung nodule image retrieval. , 2014, 2014, 6463-6.		4
85	Large Margin Aggregation of Local Estimates for Medical Image Classification. Lecture Notes in Computer Science, 2014, 17, 196-203.	1.3	4
86	Latent Semantic Association for Medical Image Retrieval. , 2014, , .		2
87	Automated three-stage nucleus and cytoplasm segmentation of overlapping cells. , 2014, , .		13
88	Lung Nodule Classification With Multilevel Patch-Based Context Analysis. IEEE Transactions on Biomedical Engineering, 2014, 61, 1155-1166.	4.2	72
89	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
90	Feature-Based Image Patch Approximation for Lung Tissue Classification. IEEE Transactions on Medical Imaging, 2013, 32, 797-808.	8.9	143

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91	Region-based progressive localization of cell nuclei in microscopic images with data adaptive modeling. BMC Bioinformatics, 2013, 14, 173.	2.6	27
92	Pathology-centric medical image retrieval with hierarchical contextual spatial descriptor. , 2013, , .		11
93	Context Curves for Classification of Lung Nodule Images. , 2013, , .		16
94	Overlapping node discovery for improving classification of lung nodules. , 2013, 2013, 5461-4.		12
95	A supervised multiview spectral embedding method for neuroimaging classification. , 2013, , .		21
96	Cell nuclei segmentation in fluorescence microscopy images using inter- and intra-region discriminative information. , 2013, 2013, 6087-90.		8
97	Fully automated scoring of chest radiographs in cystic fibrosis. , 2013, 2013, 3965-8.		3
98	Localized Sparse Code Gradient in Alzheimer's disease staging. , 2013, 2013, 5398-401.		8
99	Graph cuts based relevance feedback in image retrieval. , 2013, , .		5
100	Multifold Bayesian Kernelization in Alzheimer's Diagnosis. Lecture Notes in Computer Science, 2013, 16, 303-310.	1.3	24
101	Similarity Guided Feature Labeling for Lesion Detection. Lecture Notes in Computer Science, 2013, 16, 284-291.	1.3	3
102	Context Enhanced Graphical Model for Object Localization in Medical Images. Lecture Notes in Computer Science, 2013, , 194-205.	1.3	0
103	Discriminative Data Transform for Image Feature Extraction and Classification. Lecture Notes in Computer Science, 2013, 16, 452-459.	1.3	8
104	Global context inference for adaptive abnormality detection in PET-CT images. , 2012, , .		3
105	Regression and classification based distance metric learning for medical image retrieval. , 2012, , .		4
106	Microscopic Image Segmentation with Two-Level Enhancement of Feature Discriminability. , 2012, , .		5
107	Object localization in medical images based on graphical model with contrast and interest-region terms. , 2012, , .		11
108	Location classification of lung nodules with optimized graph construction. , 2012, , .		16

#	ARTICLE	IF	CITATIONS
109	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
110	Thoracic image case retrieval with spatial and contextual information. , 2011, , .		16
111	Hierarchical spatial matching for medical image retrieval. , 2011, , .		14
112	Thoracic image matching with appearance and spatial distribution. , 2011, 2011, 4469-72.		5
113	Discriminative Pathological Context Detection in Thoracic Images Based on Multi-level Inference. Lecture Notes in Computer Science, 2011, 14, 191-198.	1.3	9
114	Region and Learning based Retrieval for Multi-Modality Medical Images. , 2011, , .		1
115	Structure-Adaptive Feature Extraction and Representation for Multi-modality Lung Images Retrieval. , 2010, , .		6
116	A content-based image retrieval framework for multi-modality lung images. , 2010, , .		16