

Qi Dou

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93
papers

6,696
citations

35
h-index

81
g-index

102
ext. papers

9,324
ext. citations

6.7
avg, IF

6.48
L-index

#	Paper	IF	Citations
93	Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. <i>JAMA - Journal of the American Medical Association</i> , 2017 , 318, 2199-2210	27.4	1165
92	H-DenseUNet: Hybrid Densely Connected UNet for Liver and Tumor Segmentation From CT Volumes. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2663-2674	11.7	703
91	Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 994-1004	11.7	470
90	Validation, comparison, and combination of algorithms for automatic detection of pulmonary nodules in computed tomography images: The LUNA16 challenge. <i>Medical Image Analysis</i> , 2017 , 42, 1-13	15.4	387
89	Automatic Detection of Cerebral Microbleeds From MR Images via 3D Convolutional Neural Networks. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1182-1195	11.7	379
88	VoxResNet: Deep voxelwise residual networks for brain segmentation from 3D MR images. <i>NeuroImage</i> , 2018 , 170, 446-455	7.9	364
87	3D deeply supervised network for automated segmentation of volumetric medical images. <i>Medical Image Analysis</i> , 2017 , 41, 40-54	15.4	313
86	Multilevel Contextual 3-D CNNs for False Positive Reduction in Pulmonary Nodule Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1558-1567	5	295
85	DCAN: Deep contour-aware networks for object instance segmentation from histology images. <i>Medical Image Analysis</i> , 2017 , 36, 135-146	15.4	234
84	3D Deeply Supervised Network for Automatic Liver Segmentation from CT Volumes. <i>Lecture Notes in Computer Science</i> , 2016 , 149-157	0.9	139
83	Integrating Online and Offline Three-Dimensional Deep Learning for Automated Polyp Detection in Colonoscopy Videos. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 65-75	7.2	129
82	Unsupervised Cross-Modality Domain Adaptation of ConvNets for Biomedical Image Segmentations with Adversarial Loss 2018 ,		119
81	Deep Learning for Automated Contouring of Primary Tumor Volumes by MRI for Nasopharyngeal Carcinoma. <i>Radiology</i> , 2019 , 291, 677-686	20.5	113
80	SV-RCNet: Workflow Recognition From Surgical Videos Using Recurrent Convolutional Network. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1114-1126	11.7	105
79	MILD-Net: Minimal information loss dilated network for gland instance segmentation in colon histology images. <i>Medical Image Analysis</i> , 2019 , 52, 199-211	15.4	100
78	Unsupervised Bidirectional Cross-Modality Adaptation via Deeply Synergistic Image and Feature Alignment for Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2494-2505	11.7	98
77	3D multi-scale FCN with random modality voxel dropout learning for Intervertebral Disc Localization and Segmentation from Multi-modality MR Images. <i>Medical Image Analysis</i> , 2018 , 45, 41-54	15.4	70

76	Contrastive Cross-Site Learning With Redesigned Net for COVID-19 CT Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 2806-2813	7.2	70
75	MS-Net: Multi-Site Network for Improving Prostate Segmentation With Heterogeneous MRI Data. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2713-2724	11.7	69
74	Semantic-Aware Generative Adversarial Nets for Unsupervised Domain Adaptation in Chest X-Ray Segmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 143-151	0.9	68
73	Automatic Fetal Ultrasound Standard Plane Detection Using Knowledge Transferred Recurrent Neural Networks. <i>Lecture Notes in Computer Science</i> , 2015 , 507-514	0.9	68
72	Ultrasound Standard Plane Detection Using a Composite Neural Network Framework. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1576-1586	10.2	65
71	Automated Pulmonary Nodule Detection via 3D ConvNets with Online Sample Filtering and Hybrid-Loss Residual Learning. <i>Lecture Notes in Computer Science</i> , 2017 , 630-638	0.9	65
70	PnP-AdaNet: Plug-and-Play Adversarial Domain Adaptation Network at Unpaired Cross-Modality Cardiac Segmentation. <i>IEEE Access</i> , 2019 , 7, 99065-99076	3.5	63
69	Automatic 3D Cardiovascular MR Segmentation with Densely-Connected Volumetric ConvNets. <i>Lecture Notes in Computer Science</i> , 2017 , 287-295	0.9	63
68	Weakly Supervised Deep Learning for Whole Slide Lung Cancer Image Analysis. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3950-3962	10.2	63
67	Multi-task recurrent convolutional network with correlation loss for surgical video analysis. <i>Medical Image Analysis</i> , 2020 , 59, 101572	15.4	58
66	Semi-Supervised Medical Image Classification With Relation-Driven Self-Ensembling Model. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3429-3440	11.7	53
65	Unpaired Multi-Modal Segmentation via Knowledge Distillation. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2415-2425	11.7	52
64	CIA-Net: Robust Nuclei Instance Segmentation with Contour-Aware Information Aggregation. <i>Lecture Notes in Computer Science</i> , 2019 , 682-693	0.9	50
63	Evaluation and comparison of 3D intervertebral disc localization and segmentation methods for 3D T2 MR data: A grand challenge. <i>Medical Image Analysis</i> , 2017 , 35, 327-344	15.4	46
62	Weakly supervised 3D deep learning for breast cancer classification and localization of the lesions in MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 1144-1151	5.6	41
61	Multi-Task Deep Model With Margin Ranking Loss for Lung Nodule Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 718-728	11.7	39
60	Fast ScanNet: Fast and Dense Analysis of Multi-Gigapixel Whole-Slide Images for Cancer Metastasis Detection. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1948-1958	11.7	38
59	Improving RetinaNet for CT Lesion Detection with Dense Masks from Weak RECIST Labels. <i>Lecture Notes in Computer Science</i> , 2019 , 402-410	0.9	36

58	Shape-Aware Meta-learning for Generalizing Prostate MRI Segmentation to Unseen Domains. <i>Lecture Notes in Computer Science</i> , 2020 , 475-485	0.9	35
57	Robust Learning at Noisy Labeled Medical Images: Applied to Skin Lesion Classification 2019 ,		30
56	Automatic detection of cerebral microbleeds via deep learning based 3D feature representation 2015 ,		29
55	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. <i>Npj Digital Medicine</i> , 2021 , 4, 60	15.7	29
54	Incorporating Temporal Prior from Motion Flow for Instrument Segmentation in Minimally Invasive Surgery Video. <i>Lecture Notes in Computer Science</i> , 2019 , 440-448	0.9	27
53	ScanNet: A Fast and Dense Scanning Framework for Metastatic Breast Cancer Detection from Whole-Slide Image 2018 ,		26
52	Robust Multimodal Brain Tumor Segmentation via Feature Disentanglement and Gated Fusion. <i>Lecture Notes in Computer Science</i> , 2019 , 447-456	0.9	26
51	FedDG: Federated Domain Generalization on Medical Image Segmentation via Episodic Learning in Continuous Frequency Space 2021 ,		25
50	3D Fully Convolutional Networks for Intervertebral Disc Localization and Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 375-382	0.9	25
49	3-D RoI-Aware U-Net for Accurate and Efficient Colorectal Tumor Segmentation. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 5397-5408	10.2	20
48	An Encoder-Decoder Neural Network With 3D Squeeze-and-Excitation and Deep Supervision for Brain Tumor Segmentation. <i>IEEE Access</i> , 2020 , 8, 34029-34037	3.5	17
47	IRNet: Instance Relation Network for Overlapping Cervical Cell Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 640-648	0.9	16
46	Webthetics: Quantifying webpage aesthetics with deep learning. <i>International Journal of Human Computer Studies</i> , 2019 , 124, 56-66	4.6	16
45	An Active Learning Approach for Reducing Annotation Cost in Skin Lesion Analysis. <i>Lecture Notes in Computer Science</i> , 2019 , 628-636	0.9	12
44	Automatic Gesture Recognition in Robot-assisted Surgery with Reinforcement Learning and Tree Search 2020 ,		12
43	Temporal Memory Relation Network for Workflow Recognition From Surgical Video. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 1911-1923	11.7	11
42	2018 ,		9
41	MTMR-Net: Multi-task Deep Learning with Margin Ranking Loss for Lung Nodule Analysis. <i>Lecture Notes in Computer Science</i> , 2018 , 74-82	0.9	9

40	Federated Semi-supervised Medical Image Classification via Inter-client Relation Matching. <i>Lecture Notes in Computer Science</i> , 2021 , 325-335	0.9	8
39	Deep Angular Embedding and Feature Correlation Attention for Breast MRI Cancer Analysis. <i>Lecture Notes in Computer Science</i> , 2019 , 504-512	0.9	7
38	Trans-SVNet: Accurate Phase Recognition from Surgical Videos via Hybrid Embedding Aggregation Transformer. <i>Lecture Notes in Computer Science</i> , 2021 , 593-603	0.9	7
37	E-DSSR: Efficient Dynamic Surgical Scene Reconstruction with Transformer-Based Stereoscopic Depth Perception. <i>Lecture Notes in Computer Science</i> , 2021 , 415-425	0.9	7
36	Learning Motion Flows for Semi-supervised Instrument Segmentation from Robotic Surgical Video. <i>Lecture Notes in Computer Science</i> , 2020 , 679-689	0.9	6
35	Cascaded Robust Learning at Imperfect Labels for Chest X-ray Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 579-588	0.9	6
34	Source-Free Domain Adaptive Fundus Image Segmentation with Denoised Pseudo-Labeling. <i>Lecture Notes in Computer Science</i> , 2021 , 225-235	0.9	6
33	LRTD: long-range temporal dependency based active learning for surgical workflow recognition. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 1573-1584	3.9	5
32	Toward Image-Guided Automated Suture Grasping Under Complex Environments: A Learning-Enabled and Optimization-Based Holistic Framework. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-15	4.9	5
31	A Learning-Driven Framework with Spatial Optimization For Surgical Suture Thread Reconstruction and Autonomous Grasping Under Multiple Topologies and Environmental Noises 2020 ,		5
30	Relational Graph Learning on Visual and Kinematics Embeddings for Accurate Gesture Recognition in Robotic Surgery 2021 ,		5
29	Learning with Privileged Multimodal Knowledge for Unimodal Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2021 , PP,	11.7	4
28	Micro-surgical anastomose workflow recognition challenge report. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 212, 106452	6.9	4
27	A Two-Stage Approach for Automated Prostate Lesion Detection and Classification with Mask R-CNN and Weakly Supervised Deep Neural Network. <i>Lecture Notes in Computer Science</i> , 2019 , 43-51	0.9	4
26	Multi-scale and Modality Dropout Learning for Intervertebral Disc Localization and Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 85-91	0.9	4
25	Automatic Brain Tumor Segmentation from MR Images via a Multimodal Sparse Coding Based Probabilistic Model 2015 ,		3
24	Automatic cerebral microbleeds detection from MR images via Independent Subspace Analysis based hierarchical features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7933-6	0.9	3
23	Joint affine and deformable three-dimensional networks for brain MRI registration. <i>Medical Physics</i> , 2021 , 48, 1182-1196	4.4	3

22	Self-Ensembling Co-Training Framework for Semi-Supervised COVID-19 CT Segmentation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 4140-4151	7.2	3
21	Deep Cascaded Networks for Sparsely Distributed Object Detection from Medical Images 2017 , 133-154		2
20	A Sim-to-Real Object Recognition and Localization Framework for Industrial Robotic Bin Picking. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	2
19	Data-driven Holistic Framework for Automated Laparoscope Optimal View Control with Learning-based Depth Perception 2021 ,		2
18	One to Many: Adaptive Instrument Segmentation via Meta Learning and Dynamic Online Adaptation in Robotic Surgical Video 2021 ,		2
17	Unsupervised Domain Adaptation of ConvNets for Medical Image Segmentation via Adversarial Learning. <i>Advances in Computer Vision and Pattern Recognition</i> , 2019 , 93-115	1.1	2
16	Automatic lesion detection with three-dimensional convolutional neural networks 2020 , 265-293		2
15	Learning Deep Nets for Gravitational Dynamics With Unknown Disturbance Through Physical Knowledge Distillation: Initial Feasibility Study. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2658-2665	4.2	2
14	Machine Learning and Radiomics Applications in Esophageal Cancers Using Non-Invasive Imaging Methods-A Critical Review of Literature. <i>Cancers</i> , 2021 , 13,	6.6	2
13	Accurate instance segmentation of surgical instruments in robotic surgery: model refinement and cross-dataset evaluation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 1607-1614	3.9	2
12	Semi-supervised learning with progressive unlabeled data excavation for label-efficient surgical workflow recognition. <i>Medical Image Analysis</i> , 2021 , 73, 102158	15.4	2
11	Learning Laparoscope Actions via Video Features for Proactive Robotic Field-of-view Control. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4.2	2
10	Robust Medical Image Classification from Noisy Labeled Data with Global and Local Representation Guided Co-training.. <i>IEEE Transactions on Medical Imaging</i> , 2022 , PP,	11.7	1
9	Future Frame Prediction for Robot-Assisted Surgery. <i>Lecture Notes in Computer Science</i> , 2021 , 533-544	0.9	1
8	A Unified Monocular Camera-Based and Pattern-Free Hand-to-Eye Calibration Algorithm for Surgical Robots With RCM Constraints. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-12	5.5	1
7	Domain Knowledge Driven Multi-modal Segmentation of Anatomical Brain Barriers to Cancer Spread. <i>Lecture Notes in Computer Science</i> , 2021 , 16-26	0.9	0
6	Anchor-guided online meta adaptation for fast one-Shot instrument segmentation from robotic surgical videos. <i>Medical Image Analysis</i> , 2021 , 74, 102240	15.4	0
5	Edge-Aware Pyramidal Deformable Network for Unsupervised Registration of Brain MR Images. <i>Frontiers in Neuroscience</i> , 2020 , 14, 620235	5.1	0

- 4 Morphology-aware multi-source fusion-based intracranial aneurysms rupture prediction.. *European Radiology*, **2022**, 1 8 o
- 3 Unsupervised feature disentanglement for video retrieval in minimally invasive surgery. *Medical Image Analysis*, **2021**, 75, 102296 15.4
- 2 Deep multilevel contextual networks for biomedical image segmentation **2020**, 231-247
- 1 Efficient Federated Tumor Segmentation via Normalized Tensor Aggregation and Client Pruning. *Lecture Notes in Computer Science*, **2022**, 433-443 0.9