Qi Dou

List of Publications by Year in Descending Order

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	Robust Medical Image Classification from Noisy Labeled Data with Global and Local Representation Guided Co-training.. *IEEE Transactions on Medical Imaging*, **2022**, PP,	11.7	1
92	A Sim-to-Real Object Recognition and Localization Framework for Industrial Robotic Bin Picking. *IEEE Robotics and Automation Letters*, **2022**, 1-1	4.2	2
91	Morphology-aware multi-source fusion-based intracranial aneurysms rupture prediction.. *European Radiology*, **2022**, 1	8	0
90	Learning Laparoscope Actions via Video Features for Proactive Robotic Field-of-view Control. *IEEE Robotics and Automation Letters*, **2022**, 1-1	4.2	2
89	A Unified Monocular Camera-Based and Pattern-Free Hand-to-Eye Calibration Algorithm for Surgical Robots With RCM Constraints. *IEEE/ASME Transactions on Mechatronics*, **2022**, 1-12	5.5	1
88	Efficient Federated Tumor Segmentation via Normalized Tensor Aggregation and Client Pruning. *Lecture Notes in Computer Science*, **2022**, 433-443	0.9	
87	Toward Image-Guided Automated Suture Grasping Under Complex Environments: A Learning-Enabled and Optimization-Based Holistic Framework. *IEEE Transactions on Automation Science and Engineering*, **2021**, 1-15	4.9	5
86	FedDG: Federated Domain Generalization on Medical Image Segmentation via Episodic Learning in Continuous Frequency Space **2021**,		25
85	Unsupervised feature disentanglement for video retrieval in minimally invasive surgery. *Medical Image Analysis*, **2021**, 75, 102296	15.4	
84	Learning with Privileged Multimodal Knowledge for Unimodal Segmentation. *IEEE Transactions on Medical Imaging*, **2021**, PP,	11.7	4
83	Data-driven Holistic Framework for Automated Laparoscope Optimal View Control with Learning-based Depth Perception **2021**,		2
82	Relational Graph Learning on Visual and Kinematics Embeddings for Accurate Gesture Recognition in Robotic Surgery **2021**,		5
81	One to Many: Adaptive Instrument Segmentation via Meta Learning and Dynamic Online Adaptation in Robotic Surgical Video **2021**,		2
80	MIcro-surgical anastomose workflow recognition challenge report. *Computer Methods and Programs in Biomedicine*, **2021**, 212, 106452	6.9	4
79	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. *Npj Digital Medicine*, **2021**, 4, 60	15.7	29
78	Learning Deep Nets for Gravitational Dynamics With Unknown Disturbance Through Physical Knowledge Distillation: Initial Feasibility Study. *IEEE Robotics and Automation Letters*, **2021**, 6, 2658-2665	4.2	2
77	Machine Learning and Radiomics Applications in Esophageal Cancers Using Non-Invasive Imaging Methods-A Critical Review of Literature. *Cancers*, **2021**, 13,	6.6	2

76	Accurate instance segmentation of surgical instruments in robotic surgery: model refinement and cross-dataset evaluation. *International Journal of Computer Assisted Radiology and Surgery*, **2021**, 16, 1607-1614	3.9	2
75	3-D RoI-Aware U-Net for Accurate and Efficient Colorectal Tumor Segmentation. *IEEE Transactions on Cybernetics*, **2021**, 51, 5397-5408	10.2	20
74	Joint affine and deformable three-dimensional networks for brain MRI registration. *Medical Physics*, **2021**, 48, 1182-1196	4.4	3
73	Source-Free Domain Adaptive Fundus Image Segmentation with Denoised Pseudo-Labeling. *Lecture Notes in Computer Science*, **2021**, 225-235	0.9	6
72	Trans-SVNet: Accurate Phase Recognition from Surgical Videos via Hybrid Embedding Aggregation Transformer. *Lecture Notes in Computer Science*, **2021**, 593-603	0.9	7
71	Future Frame Prediction for Robot-Assisted Surgery. *Lecture Notes in Computer Science*, **2021**, 533-544	0.9	1
70	Domain Knowledge Driven Multi-modal Segmentation of Anatomical Brain Barriers to Cancer Spread. *Lecture Notes in Computer Science*, **2021**, 16-26	0.9	0
69	Federated Semi-supervised Medical Image Classification via Inter-client Relation Matching. *Lecture Notes in Computer Science*, **2021**, 325-335	0.9	8
68	E-DSSR: Efficient Dynamic Surgical Scene Reconstruction with Transformer-Based Stereoscopic Depth Perception. *Lecture Notes in Computer Science*, **2021**, 415-425	0.9	7
67	Anchor-guided online meta adaptation for fast one-Shot instrument segmentation from robotic surgical videos. *Medical Image Analysis*, **2021**, 74, 102240	15.4	0
66	Semi-supervised learning with progressive unlabeled data excavation for label-efficient surgical workflow recognition. *Medical Image Analysis*, **2021**, 73, 102158	15.4	2
65	Self-Ensembling Co-Training Framework for Semi-Supervised COVID-19 CT Segmentation. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 4140-4151	7.2	3
64	Temporal Memory Relation Network for Workflow Recognition From Surgical Video. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1911-1923	11.7	11
63	Semi-Supervised Medical Image Classification With Relation-Driven Self-Ensembling Model. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3429-3440	11.7	53
62	LRTD: long-range temporal dependency based active learning for surgical workflow recognition. *International Journal of Computer Assisted Radiology and Surgery*, **2020**, 15, 1573-1584	3.9	5
61	An Encoder-Decoder Neural Network With 3D Squeeze-and-Excitation and Deep Supervision for Brain Tumor Segmentation. *IEEE Access*, **2020**, 8, 34029-34037	3.5	17
60	MS-Net: Multi-Site Network for Improving Prostate Segmentation With Heterogeneous MRI Data. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2713-2724	11.7	69
59	Unpaired Multi-Modal Segmentation via Knowledge Distillation. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2415-2425	11.7	52

40	Unsupervised Domain Adaptation of ConvNets for Medical Image Segmentation via Adversarial Learning. *Advances in Computer Vision and Pattern Recognition*, **2019**, 93-115	1.1	2
39	Improving RetinaNet for CT Lesion Detection with Dense Masks from Weak RECIST Labels. *Lecture Notes in Computer Science*, **2019**, 402-410	0.9	36
38	IRNet: Instance Relation Network for Overlapping Cervical Cell Segmentation. *Lecture Notes in Computer Science*, **2019**, 640-648	0.9	16
37	Robust Multimodal Brain Tumor Segmentation via Feature Disentanglement and Gated Fusion. *Lecture Notes in Computer Science*, **2019**, 447-456	0.9	26
36	Deep Angular Embedding and Feature Correlation Attention for Breast MRI Cancer Analysis. *Lecture Notes in Computer Science*, **2019**, 504-512	0.9	7
35	Incorporating Temporal Prior from Motion Flow for Instrument Segmentation in Minimally Invasive Surgery Video. *Lecture Notes in Computer Science*, **2019**, 440-448	0.9	27
34	A Two-Stage Approach for Automated Prostate Lesion Detection and Classification with Mask R-CNN and Weakly Supervised Deep Neural Network. *Lecture Notes in Computer Science*, **2019**, 43-51	0.9	4
33	An Active Learning Approach for Reducing Annotation Cost in Skin Lesion Analysis. *Lecture Notes in Computer Science*, **2019**, 628-636	0.9	12
32	MILD-Net: Minimal information loss dilated network for gland instance segmentation in colon histology images. *Medical Image Analysis*, **2019**, 52, 199-211	15.4	100
31	Webthetics: Quantifying webpage aesthetics with deep learning. *International Journal of Human Computer Studies*, **2019**, 124, 56-66	4.6	16
30	Fast ScanNet: Fast and Dense Analysis of Multi-Gigapixel Whole-Slide Images for Cancer Metastasis Detection. *IEEE Transactions on Medical Imaging*, **2019**, 38, 1948-1958	11.7	38
29	3D multi-scale FCN with random modality voxel dropout learning for Intervertebral Disc Localization and Segmentation from Multi-modality MR Images. *Medical Image Analysis*, **2018**, 45, 41-54	15.4	70
28	SV-RCNet: Workflow Recognition From Surgical Videos Using Recurrent Convolutional Network. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1114-1126	11.7	105
27	VoxResNet: Deep voxelwise residual networks for brain segmentation from 3D MR images. *NeuroImage*, **2018**, 170, 446-455	7.9	364
26	ScanNet: A Fast and Dense Scanning Framework for Metastastic Breast Cancer Detection from Whole-Slide Image **2018**,		26
25	**2018**,		9
24	H-DenseUNet: Hybrid Densely Connected UNet for Liver and Tumor Segmentation From CT Volumes. *IEEE Transactions on Medical Imaging*, **2018**, 37, 2663-2674	11.7	703
23	Unsupervised Cross-Modality Domain Adaptation of ConvNets for Biomedical Image Segmentations with Adversarial Loss **2018**,		119

22	Semantic-Aware Generative Adversarial Nets for Unsupervised Domain Adaptation in Chest X-Ray Segmentation. *Lecture Notes in Computer Science*, **2018**, 143-151	0.9	68
21	MTMR-Net: Multi-task Deep Learning with Margin Ranking Loss for Lung Nodule Analysis. *Lecture Notes in Computer Science*, **2018**, 74-82	0.9	9
20	3D deeply supervised network for automated segmentation of volumetric medical images. *Medical Image Analysis*, **2017**, 41, 40-54	15.4	313
19	Ultrasound Standard Plane Detection Using a Composite Neural Network Framework. *IEEE Transactions on Cybernetics*, **2017**, 47, 1576-1586	10.2	65
18	Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks. *IEEE Transactions on Medical Imaging*, **2017**, 36, 994-1004	11.7	470
17	Integrating Online and Offline Three-Dimensional Deep Learning for Automated Polyp Detection in Colonoscopy Videos. *IEEE Journal of Biomedical and Health Informatics*, **2017**, 21, 65-75	7.2	129
16	Automated Pulmonary Nodule Detection via 3D ConvNets with Online Sample Filtering and Hybrid-Loss Residual Learning. *Lecture Notes in Computer Science*, **2017**, 630-638	0.9	65
15	Automatic 3D Cardiovascular MR Segmentation with Densely-Connected Volumetric ConvNets. *Lecture Notes in Computer Science*, **2017**, 287-295	0.9	63
14	Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. *JAMA - Journal of the American Medical Association*, **2017**, 318, 2199-2210	27.4	1165
13	Validation, comparison, and combination of algorithms for automatic detection of pulmonary nodules in computed tomography images: The LUNA16 challenge. *Medical Image Analysis*, **2017**, 42, 1-13	15.4	387
12	DCAN: Deep contour-aware networks for object instance segmentation from histology images. *Medical Image Analysis*, **2017**, 36, 135-146	15.4	234
11	Evaluation and comparison of 3D intervertebral disc localization and segmentation methods for 3D T2 MR data: A grand challenge. *Medical Image Analysis*, **2017**, 35, 327-344	15.4	46
10	Multilevel Contextual 3-D CNNs for False Positive Reduction in Pulmonary Nodule Detection. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 1558-1567	5	295
9	Deep Cascaded Networks for Sparsely Distributed Object Detection from Medical Images **2017**, 133-154		2
8	3D Deeply Supervised Network for Automatic Liver Segmentation from CT Volumes. *Lecture Notes in Computer Science*, **2016**, 149-157	0.9	139
7	Automatic Detection of Cerebral Microbleeds From MR Images via 3D Convolutional Neural Networks. *IEEE Transactions on Medical Imaging*, **2016**, 35, 1182-1195	11.7	379
6	Multi-scale and Modality Dropout Learning for Intervertebral Disc Localization and Segmentation. *Lecture Notes in Computer Science*, **2016**, 85-91	0.9	4
5	3D Fully Convolutional Networks for Intervertebral Disc Localization and Segmentation. *Lecture Notes in Computer Science*, **2016**, 375-382	0.9	25

LIST OF PUBLICATIONS

4	Automatic Brain Tumor Segmentation from MR Images via a Multimodal Sparse Coding Based Probabilistic Model **2015**,		3
3	Automatic detection of cerebral microbleeds via deep learning based 3D feature representation **2015**,		29
2	Automatic cerebral microbleeds detection from MR images via Independent Subspace Analysis based hierarchical features. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 7933-6	0.9	3
1	Automatic Fetal Ultrasound Standard Plane Detection Using Knowledge Transferred Recurrent Neural Networks. *Lecture Notes in Computer Science*, **2015**, 507-514	0.9	68