Lequan Yu

List of Publications by Citations

67 papers	4,200 citations	28 h-index	64 g-index
69 ext. papers	5,745 ext. citations	6 avg, IF	6.21 L-index

#	Paper	IF	Citations
67	Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks. *IEEE Transactions on Medical Imaging*, **2017**, 36, 994-1004	11.7	470
66	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
65	VoxResNet: Deep voxelwise residual networks for brain segmentation from 3D MR images. *NeuroImage*, **2018**, 170, 446-455	7.9	364
64	3D deeply supervised network for automated segmentation of volumetric medical images. *Medical Image Analysis*, **2017**, 41, 40-54	15.4	313
63	Multilevel Contextual 3-D CNNs for False Positive Reduction in Pulmonary Nodule Detection. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 1558-1567	5	295
62	DCAN: Deep contour-aware networks for object instance segmentation from histology images. *Medical Image Analysis*, **2017**, 36, 135-146	15.4	234
61	DCAN: Deep Contour-Aware Networks for Accurate Gland Segmentation **2016**,		220
60	Comparative Validation of Polyp Detection Methods in Video Colonoscopy: Results From the MICCAI 2015 Endoscopic Vision Challenge. *IEEE Transactions on Medical Imaging*, **2017**, 36, 1231-1249	11.7	203
59	PU-Net: Point Cloud Upsampling Network **2018**,		141
58	3D Deeply Supervised Network for Automatic Liver Segmentation from CT Volumes. *Lecture Notes in Computer Science*, **2016**, 149-157	0.9	139
57	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
56	Uncertainty-Aware Self-ensembling Model for Semi-supervised 3D Left Atrium Segmentation. *Lecture Notes in Computer Science*, **2019**, 605-613	0.9	112
55	SV-RCNet: Workflow Recognition From Surgical Videos Using Recurrent Convolutional Network. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1114-1126	11.7	105
54	Patch-Based Output Space Adversarial Learning for Joint Optic Disc and Cup Segmentation. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2485-2495	11.7	93
53	CANet: Cross-Disease Attention Network for Joint Diabetic Retinopathy and Diabetic Macular Edema Grading. *IEEE Transactions on Medical Imaging*, **2020**, 39, 1483-1493	11.7	76
52	Transformation-Consistent Self-Ensembling Model for Semisupervised Medical Image Segmentation. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 523-534	10.3	70
51	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

50	Automatic 3D Cardiovascular MR Segmentation with Densely-Connected Volumetric ConvNets. *Lecture Notes in Computer Science*, **2017**, 287-295	0.9	63
49	RMDL: Recalibrated multi-instance deep learning for whole slide gastric image classification. *Medical Image Analysis*, **2019**, 58, 101549	15.4	55
48	Semi-Supervised Medical Image Classification With Relation-Driven Self-Ensembling Model. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3429-3440	11.7	53
47	EC-Net: An Edge-Aware Point Set Consolidation Network. *Lecture Notes in Computer Science*, **2018**, 398-414	0.9	50
46	Uncertainty-aware multi-view co-training for semi-supervised medical image segmentation and domain adaptation. *Medical Image Analysis*, **2020**, 65, 101766	15.4	47
45	Towards Automated Semantic Segmentation in Prenatal Volumetric Ultrasound. *IEEE Transactions on Medical Imaging*, **2019**, 38, 180-193	11.7	45
44	3D U-net with Multi-level Deep Supervision: Fully Automatic Segmentation of Proximal Femur in 3D MR Images. *Lecture Notes in Computer Science*, **2017**, 274-282	0.9	43
43	3D Semi-Supervised Learning with Uncertainty-Aware Multi-View Co-Training **2020**,		32
42	Towards Automatic Semantic Segmentation in Volumetric Ultrasound. *Lecture Notes in Computer Science*, **2017**, 711-719	0.9	30
41	Automatic detection of cerebral microbleeds via deep learning based 3D feature representation **2015**,		29
40	Boundary and Entropy-Driven Adversarial Learning for Fundus Image Segmentation. *Lecture Notes in Computer Science*, **2019**, 102-110	0.9	28
39	3D FractalNet: Dense Volumetric Segmentation for Cardiovascular MRI Volumes. *Lecture Notes in Computer Science*, **2017**, 103-110	0.9	20
38	Towards Cross-Modality Medical Image Segmentation with Online Mutual Knowledge Distillation. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2020**, 34, 775-783	5	20
37	Deep Mining External Imperfect Data for Chest X-Ray Disease Screening. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3583-3594	11.7	19
36	Learning from Extrinsic and Intrinsic Supervisions for Domain Generalization. *Lecture Notes in Computer Science*, **2020**, 159-176	0.9	18
35	Self-Supervised Feature Learning via Exploiting Multi-Modal Data for Retinal Disease Diagnosis. *IEEE Transactions on Medical Imaging*, **2020**, 39, 4023-4033	11.7	18
34	Revisiting metric learning for few-shot image classification. *Neurocomputing*, **2020**, 406, 49-58	5.4	16
33	Difficulty-Aware Meta-learning for Rare Disease Diagnosis. *Lecture Notes in Computer Science*, **2020**, 357-366		16

32	DoFE: Domain-Oriented Feature Embedding for Generalizable Fundus Image Segmentation on Unseen Datasets. *IEEE Transactions on Medical Imaging*, **2020**, 39, 4237-4248	11.7	16
31	Deep Sinogram Completion With Image Prior for Metal Artifact Reduction in CT Images. *IEEE Transactions on Medical Imaging*, **2021**, 40, 228-238	11.7	16
30	Dual-Teacher: Integrating Intra-domain and Inter-domain Teachers for Annotation-Efficient Cardiac Segmentation. *Lecture Notes in Computer Science*, **2020**, 418-427	0.9	14
29	Class-Balanced Deep Neural Network for Automatic Ventricular Structure Segmentation. *Lecture Notes in Computer Science*, **2018**, 152-160	0.9	11
28	Deeply Supervised Rotation Equivariant Network for Lesion Segmentation in Dermoscopy Images. *Lecture Notes in Computer Science*, **2018**, 235-243	0.9	11
27	Local and Global Structure-Aware Entropy Regularized Mean Teacher Model for 3D Left Atrium Segmentation. *Lecture Notes in Computer Science*, **2020**, 562-571	0.9	11
26	TransCT: Dual-Path Transformer for Low Dose Computed Tomography. *Lecture Notes in Computer Science*, **2021**, 55-64	0.9	11
25	Agent with Warm Start and Active Termination for Plane Localization in 3D Ultrasound. *Lecture Notes in Computer Science*, **2019**, 290-298	0.9	10
24	Hybrid Loss Guided Convolutional Networks for Whole Heart Parsing. *Lecture Notes in Computer Science*, **2018**, 215-223	0.9	10
23	Dual-Teacher++: Exploiting Intra-Domain and Inter-Domain Knowledge With Reliable Transfer for Cardiac Segmentation. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2771-2782	11.7	9
22	AGNet: Attention-Guided Network for Surgical Tool Presence Detection. *Lecture Notes in Computer Science*, **2017**, 186-194	0.9	8
21	Automatic intraprostatic lesion segmentation in multiparametric magnetic resonance images with proposed multiple branch UNet. *Medical Physics*, **2020**, 47, 6421-6429	4.4	8
20	Robust Medical Image Segmentation from Non-expert Annotations with Tri-network. *Lecture Notes in Computer Science*, **2020**, 249-258	0.9	6
19	Deep Neural Network With Consistency Regularization of Multi-Output Channels for Improved Tumor Detection and Delineation. *IEEE Transactions on Medical Imaging*, **2021**, 40, 3369-3378	11.7	6
18	Rotation-Oriented Collaborative Self-Supervised Learning for Retinal Disease Diagnosis. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2284-2294	11.7	6
17	Unsupervised Detection of Distinctive Regions on 3D Shapes. *ACM Transactions on Graphics*, **2020**, 39, 1-14	7.6	4
16	Unsupervised Retina Image Synthesis via Disentangled Representation Learning. *Lecture Notes in Computer Science*, **2019**, 32-41	0.9	4
15	3D Convolutional Networks for Fully Automatic Fine-Grained Whole Heart Partition. *Lecture Notes in Computer Science*, **2018**, 181-189	0.9	4

List of Publications

14	NIA-Network: Towards improving lung CT infection detection for COVID-19 diagnosis. *Artificial Intelligence in Medicine*, **2021**, 117, 102082	7.4	4
13	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
12	Modularized data-driven reconstruction framework for nonideal focal spot effect elimination in computed tomography. *Medical Physics*, **2021**, 48, 2245-2257	4.4	3
11	Deep Cascaded Networks for Sparsely Distributed Object Detection from Medical Images **2017**, 133-154		2
10	MR to ultrasound image registration with segmentation-based learning for HDR prostate brachytherapy. *Medical Physics*, **2021**, 48, 3074-3083	4.4	2
9	All-Around Real Label Supervision: Cyclic Prototype Consistency Learning for Semi-supervised Medical Image Segmentation.. *IEEE Journal of Biomedical and Health Informatics*, **2022**, PP,	7.2	2
8	Towards reliable cardiac image segmentation: Assessing image-level and pixel-level segmentation quality via self-reflective references.. *Medical Image Analysis*, **2022**, 78, 102426	15.4	2
7	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
6	Metal artifact reduction in 2D CT images with self-supervised cross-domain learning. *Physics in Medicine and Biology*, **2021**, 66,	3.8	1
5	STPD: Defending against l0-norm attacks with space transformation. *Future Generation Computer Systems*, **2022**, 126, 225-236	7.5	1
4	Novel-view X-ray projection synthesis through geometry-integrated deep learning.. *Medical Image Analysis*, **2022**, 77, 102372	15.4	0
3	Predicting Fluid Intelligence from MRI Images with Encoder-Decoder Regularization. *Lecture Notes in Computer Science*, **2019**, 108-113	0.9	0
2	Selective Learning from External Data for CT Image Segmentation. *Lecture Notes in Computer Science*, **2021**, 420-430	0.9	
1	Single pixel imaging via unsupervised deep compressive sensing with collaborative sparsity in discretized feature space.. *Journal of Biophotonics*, **2022**, e202200045	3.1	