

Pheng Ann Heng

List of Publications by Year in descending order

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450
papers

27,375
citations

10650

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docs citations

455
times ranked

22841
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Texture-Aware Features for Camouflaged Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 1157-1167.	5.6	30
2	A Rotation-Invariant Framework for Deep Point Cloud Analysis. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 4503-4514.	2.9	19
3	Item Relationship Graph Neural Networks for E-Commerce. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4785-4799.	7.2	18
4	Learning With Privileged Multimodal Knowledge for Unimodal Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 621-632.	5.4	23
5	Real-time landmark detection for precise endoscopic submucosal dissection via shape-aware relation network. Medical Image Analysis, 2022, 75, 102291.	7.0	4
6	Unsupervised feature disentanglement for video retrieval in minimally invasive surgery. Medical Image Analysis, 2022, 75, 102296.	7.0	4
7	Toward Image-Guided Automated Suture Grasping Under Complex Environments: A Learning-Enabled and Optimization-Based Holistic Framework. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3794-3808.	3.4	11
8	Robust Medical Image Classification From Noisy Labeled Data With Global and Local Representation Guided Co-Training. IEEE Transactions on Medical Imaging, 2022, 41, 1371-1382.	5.4	21
9	A Sim-to-Real Object Recognition and Localization Framework for Industrial Robotic Bin Picking. IEEE Robotics and Automation Letters, 2022, 7, 3961-3968.	3.3	20
10	Morphology-aware multi-source fusion-based intracranial aneurysms rupture prediction. European Radiology, 2022, 32, 5633-5641.	2.3	8
11	Amplitude-frequency-aware deep fusion network for optimal contact selection on STN-DBS electrodes. Science China Information Sciences, 2022, 65, 1.	2.7	1
12	Towards reliable cardiac image segmentation: Assessing image-level and pixel-level segmentation quality via self-reflective references. Medical Image Analysis, 2022, 78, 102426.	7.0	9
13	Versatile cutting fracture evolution modeling for deformable object cutting simulation. Computer Methods and Programs in Biomedicine, 2022, 219, 106749.	2.6	2
14	Deep Semi-Supervised Metric Learning with Dual Alignment for Cervical Cancer Cell Detection. , 2022, , .		5
15	Exploring Intra- and Inter-Video Relation for Surgical Semantic Scene Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 2991-3002.	5.4	11
16	Instance Shadow Detection with A Single-Stage Detector. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-14.	9.7	2
17	DLTTA: Dynamic Learning Rate for Test-Time Adaptation on Cross-Domain Medical Images. IEEE Transactions on Medical Imaging, 2022, 41, 3575-3586.	5.4	10
18	TraSeTR: Track-to-Segment Transformer with Contrastive Query for Instance-level Instrument Segmentation in Robotic Surgery. , 2022, , .		10

#	ARTICLE	IF	CITATIONS
19	Towards Robust Part-aware Instance Segmentation for Industrial Bin Picking. , 2022, , .		4
20	3D Perception based Imitation Learning under Limited Demonstration for Laparoscope Control in Robotic Surgery. , 2022, , .		5
21	RePFormer: Refinement Pyramid Transformer for Robust Facial Landmark Detection. , 2022, , .		5
22	DNF-Net: A Deep Normal Filtering Network for Mesh Denoising. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 4060-4072.	2.9	32
23	SALMNet: A Structure-Aware Lane Marking Detection Network. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4986-4997.	4.7	17
24	SAC-Net: Spatial Attenuation Context for Salient Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1079-1090.	5.6	46
25	Transformation-Consistent Self-Ensembling Model for Semisupervised Medical Image Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 523-534.	7.2	240
26	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. Medical Image Analysis, 2021, 67, 101832.	7.0	150
27	Comparative validation of multi-instance instrument segmentation in endoscopy: Results of the ROBUST-MIS 2019 challenge. Medical Image Analysis, 2021, 70, 101920.	7.0	41
28	PAIP 2019: Liver cancer segmentation challenge. Medical Image Analysis, 2021, 67, 101854.	7.0	52
29	Multitask Feature Learning Meets Robust Tensor Decomposition for EEG Classification. IEEE Transactions on Cybernetics, 2021, 51, 2242-2252.	6.2	11
30	Source-Free Domain Adaptive Fundus Image Segmentation with Denoised Pseudo-Labeling. Lecture Notes in Computer Science, 2021, , 225-235.	1.0	34
31	Single-Image Real-Time Rain Removal Based on Depth-Guided Non-Local Features. IEEE Transactions on Image Processing, 2021, 30, 1759-1770.	6.0	36
32	Revisiting Shadow Detection: A New Benchmark Dataset for Complex World. IEEE Transactions on Image Processing, 2021, 30, 1925-1934.	6.0	39
33	Automatic Localization of Seizure Onset Zone From High-Frequency SEEG Signals: A Preliminary Study. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-10.	2.2	5
34	Efficient Global-Local Memory for Real-Time Instrument Segmentation of Robotic Surgical Video. Lecture Notes in Computer Science, 2021, , 341-351.	1.0	5
35	Trans-SVNet: Accurate Phase Recognition from Surgical Videos via Hybrid Embedding Aggregation Transformer. Lecture Notes in Computer Science, 2021, , 593-603.	1.0	46
36	Future Frame Prediction for Robot-Assisted Surgery. Lecture Notes in Computer Science, 2021, , 533-544.	1.0	5

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37	Dual-Consistency Semi-supervised Learning with Uncertainty Quantification for COVID-19 Lesion Segmentation from CT Images. Lecture Notes in Computer Science, 2021, , 199-209.	1.0	23
38	Federated Semi-supervised Medical Image Classification via Inter-client Relation Matching. Lecture Notes in Computer Science, 2021, , 325-335.	1.0	34
39	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. Npj Digital Medicine, 2021, 4, 60.	5.7	134
40	Dual-path network with synergistic grouping loss and evidence driven risk stratification for whole slide cervical image analysis. Medical Image Analysis, 2021, 69, 101955.	7.0	28
41	Automatic identification of sweet spots from MERs for electrodes implantation in STN-DBS. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 809-818.	1.7	3
42	Deep virtual adversarial self-training with consistency regularization for semi-supervised medical image classification. Medical Image Analysis, 2021, 70, 102010.	7.0	57
43	Global guidance network for breast lesion segmentation in ultrasound images. Medical Image Analysis, 2021, 70, 101989.	7.0	92
44	Learning Gated Non-Local Residual for Single-Image Rain Streak Removal. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2147-2159.	5.6	34
45	Towards quantitative and intuitive percutaneous tumor puncture via augmented virtual reality. Computerized Medical Imaging and Graphics, 2021, 90, 101905.	3.5	10
46	A Multitask Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multicenter Analysis. Diabetes Care, 2021, 44, 2078-2088.	4.3	27
47	Rotation-Oriented Collaborative Self-Supervised Learning for Retinal Disease Diagnosis. IEEE Transactions on Medical Imaging, 2021, 40, 2284-2294.	5.4	41
48	Anchor-guided online meta adaptation for fast one-Shot instrument segmentation from robotic surgical videos. Medical Image Analysis, 2021, 74, 102240.	7.0	4
49	Semi-supervised learning with progressive unlabeled data excavation for label-efficient surgical workflow recognition. Medical Image Analysis, 2021, 73, 102158.	7.0	16
50	Dual-Teacher++: Exploiting Intra-Domain and Inter-Domain Knowledge With Reliable Transfer for Cardiac Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 2771-2782.	5.4	21
51	Self-Ensembling Co-Training Framework for Semi-Supervised COVID-19 CT Segmentation. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 4140-4151.	3.9	22
52	Temporal Memory Relation Network for Workflow Recognition From Surgical Video. IEEE Transactions on Medical Imaging, 2021, 40, 1911-1923.	5.4	48
53	Relational Graph Learning on Visual and Kinematics Embeddings for Accurate Gesture Recognition in Robotic Surgery. , 2021, , .		13
54	Versatile multi-constrained planning for thermal ablation of large liver tumors. Computerized Medical Imaging and Graphics, 2021, 94, 101993.	3.5	3

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55	FedDG: Federated Domain Generalization on Medical Image Segmentation via Episodic Learning in Continuous Frequency Space. , 2021, , .		159
56	Single-Stage Instance Shadow Detection with Bidirectional Relation Learning. , 2021, , .		12
57	Domain Adaptive Robotic Gesture Recognition with Unsupervised Kinematic-Visual Data Alignment. , 2021, , .		1
58	Saliency-Aware Texture Smoothing. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2471-2484.	2.9	23
59	Direction-Aware Spatial Context Features for Shadow Detection and Removal. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2795-2808.	9.7	115
60	Multi-task recurrent convolutional network with correlation loss for surgical video analysis. Medical Image Analysis, 2020, 59, 101572.	7.0	116
61	REFUGE Challenge: A unified framework for evaluating automated methods for glaucoma assessment from fundus photographs. Medical Image Analysis, 2020, 59, 101570.	7.0	354
62	Aggregating Attentional Dilated Features for Salient Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3358-3371.	5.6	45
63	Multi-Task Deep Model With Margin Ranking Loss for Lung Nodule Analysis. IEEE Transactions on Medical Imaging, 2020, 39, 718-728.	5.4	80
64	Weakly Supervised Deep Learning for Whole Slide Lung Cancer Image Analysis. IEEE Transactions on Cybernetics, 2020, 50, 3950-3962.	6.2	198
65	A Multi-Organ Nucleus Segmentation Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 1380-1391.	5.4	259
66	Deep multilevel contextual networks for biomedical image segmentation. , 2020, , 231-247.		0
67	CANet: Cross-Disease Attention Network for Joint Diabetic Retinopathy and Diabetic Macular Edema Grading. IEEE Transactions on Medical Imaging, 2020, 39, 1483-1493.	5.4	235
68	Automatic lesion detection with three-dimensional convolutional neural networks. , 2020, , 265-293.		3
69	Bridge Segmentation Performance Gap Via Evolving Shape Prior. IEEE Access, 2020, 8, 173961-173973.	2.6	1
70	Automatic Gesture Recognition in Robot-assisted Surgery with Reinforcement Learning and Tree Search. , 2020, , .		28
71	MMTLNet: Multi-Modality Transfer Learning Network with adversarial training for 3D whole heart segmentation. Computerized Medical Imaging and Graphics, 2020, 85, 101785.	3.5	30
72	DoFE: Domain-Oriented Feature Embedding for Generalizable Fundus Image Segmentation on Unseen Datasets. IEEE Transactions on Medical Imaging, 2020, 39, 4237-4248.	5.4	59

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73	Instance Shadow Detection. , 2020, , .		45
74	A Multi-Task Mean Teacher for Semi-Supervised Shadow Detection. , 2020, , .		82
75	Revisiting metric learning for few-shot image classification. Neurocomputing, 2020, 406, 49-58.	3.5	60
76	Semi-Supervised Medical Image Classification With Relation-Driven Self-Ensembling Model. IEEE Transactions on Medical Imaging, 2020, 39, 3429-3440.	5.4	149
77	NormalF-Net: Normal Filtering Neural Network for Feature-preserving Mesh Denoising. CAD Computer Aided Design, 2020, 127, 102861.	1.4	17
78	Towards Cross-Modality Medical Image Segmentation with Online Mutual Knowledge Distillation. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 775-783.	3.6	45
79	Deep Mining External Imperfect Data for Chest X-Ray Disease Screening. IEEE Transactions on Medical Imaging, 2020, 39, 3583-3594.	5.4	51
80	UD-MIL: Uncertainty-Driven Deep Multiple Instance Learning for OCT Image Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3431-3442.	3.9	47
81	LRTD: long-range temporal dependency based active learning for surgical workflow recognition. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1573-1584.	1.7	17
82	Ï-Net: Stacking Densely Convolutional LSTMs for Sub-Cortical Brain Structure Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 2806-2817.	5.4	22
83	An Encoder-Decoder Neural Network With 3D Squeeze-and-Excitation and Deep Supervision for Brain Tumor Segmentation. IEEE Access, 2020, 8, 34029-34037.	2.6	47
84	MS-Net: Multi-Site Network for Improving Prostate Segmentation With Heterogeneous MRI Data. IEEE Transactions on Medical Imaging, 2020, 39, 2713-2724.	5.4	154
85	Unpaired Multi-Modal Segmentation via Knowledge Distillation. IEEE Transactions on Medical Imaging, 2020, 39, 2415-2425.	5.4	112
86	Unsupervised Bidirectional Cross-Modality Adaptation via Deeply Synergistic Image and Feature Alignment for Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 2494-2505.	5.4	230
87	Learning from Extrinsic and Intrinsic Supervisions for Domain Generalization. Lecture Notes in Computer Science, 2020, , 159-176.	1.0	78
88	Difficulty-Aware Meta-learning for Rare Disease Diagnosis. Lecture Notes in Computer Science, 2020, , 357-366.	1.0	28
89	Dual-Teacher: Integrating Intra-domain and Inter-domain Teachers for Annotation-Efficient Cardiac Segmentation. Lecture Notes in Computer Science, 2020, , 418-427.	1.0	25
90	Shape-Aware Meta-learning for Generalizing Prostate MRI Segmentation to Unseen Domains. Lecture Notes in Computer Science, 2020, , 475-485.	1.0	81

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91	Cascaded Robust Learning at Imperfect Labels for Chest X-ray Segmentation. Lecture Notes in Computer Science, 2020, , 579-588.	1.0	17
92	Hybrid attention for automatic segmentation of whole fetal head in prenatal ultrasound volumes. Computer Methods and Programs in Biomedicine, 2020, 194, 105519.	2.6	12
93	Towards multi-center glaucoma OCT image screening with semi-supervised joint structure and function multi-task learning. Medical Image Analysis, 2020, 63, 101695.	7.0	47
94	A Learning-Driven Framework with Spatial Optimization For Surgical Suture Thread Reconstruction and Autonomous Grasping Under Multiple Topologies and Environmental Noises. , 2020, , .		10
95	Towards Automated Semantic Segmentation in Prenatal Volumetric Ultrasound. IEEE Transactions on Medical Imaging, 2019, 38, 180-193.	5.4	77
96	Computational Modeling of Fluid-Structure Interaction Between Blood Flow and Mitral Valve. , 2019, , 31-41.		0
97	Overlapping radiofrequency ablation planning and robot-assisted needle insertion for large liver tumors. International Journal of Medical Robotics and Computer Assisted Surgery, 2019, 15, e1952.	1.2	17
98	Synergistic Image and Feature Adaptation: Towards Cross-Modality Domain Adaptation for Medical Image Segmentation. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 865-872.	3.6	175
99	Evaluation of algorithms for Multi-Modality Whole Heart Segmentation: An open-access grand challenge. Medical Image Analysis, 2019, 58, 101537.	7.0	180
100	Detection of glaucomatous optic neuropathy with spectral-domain optical coherence tomography: a retrospective training and validation deep-learning analysis. The Lancet Digital Health, 2019, 1, e172-e182.	5.9	97
101	DALocNet: Improving Localization Accuracy for Domain Adaptive Object Detection. IEEE Access, 2019, 7, 63155-63163.	2.6	8
102	PnP-AdaNet: Plug-and-Play Adversarial Domain Adaptation Network at Unpaired Cross-Modality Cardiac Segmentation. IEEE Access, 2019, 7, 99065-99076.	2.6	124
103	Channel-Unet: A Spatial Channel-Wise Convolutional Neural Network for Liver and Tumors Segmentation. Frontiers in Genetics, 2019, 10, 1110.	1.1	80
104	Robust Learning at Noisy Labeled Medical Images: Applied to Skin Lesion Classification. , 2019, , .		56
105	Assessing performance of augmented reality-based neurosurgical training. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 6.	2.2	23
106	RMDL: Recalibrated multi-instance deep learning for whole slide gastric image classification. Medical Image Analysis, 2019, 58, 101549.	7.0	121
107	Joint Segmentation and Landmark Localization of Fetal Femur in Ultrasound Volumes. , 2019, , .		15
108	Real-time artificial intelligence for detection of upper gastrointestinal cancer by endoscopy: a multicentre, case-control, diagnostic study. Lancet Oncology, The, 2019, 20, 1645-1654.	5.1	263

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109	Online Subspace Learning from Gradient Orientations for Robust Image Alignment. IEEE Transactions on Image Processing, 2019, 28, 3383-3394.	6.0	9
110	CIA-Net: Robust Nuclei Instance Segmentation with Contour-Aware Information Aggregation. Lecture Notes in Computer Science, 2019, , 682-693.	1.0	103
111	RIANet: Recurrent interleaved attention network for cardiac MRI segmentation. Computers in Biology and Medicine, 2019, 109, 290-302.	3.9	35
112	Versatile numerical fractures removal for SPH-based free surface liquids. Computers and Graphics, 2019, 81, 1-8.	1.4	3
113	Deep Attentive Features for Prostate Segmentation in 3D Transrectal Ultrasound. IEEE Transactions on Medical Imaging, 2019, 38, 2768-2778.	5.4	126
114	Deep Learning for Automated Contouring of Primary Tumor Volumes by MRI for Nasopharyngeal Carcinoma. Radiology, 2019, 291, 677-686.	3.6	221
115	Weakly supervised 3D deep learning for breast cancer classification and localization of the lesions in MR images. Journal of Magnetic Resonance Imaging, 2019, 50, 1144-1151.	1.9	91
116	Multipath Densely Connected Convolutional Neural Network for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2019, , 81-91.	1.0	1
117	Patch-Based Output Space Adversarial Learning for Joint Optic Disc and Cup Segmentation. IEEE Transactions on Medical Imaging, 2019, 38, 2485-2495.	5.4	180
118	Mixed reality based respiratory liver tumor puncture navigation. Computational Visual Media, 2019, 5, 363-374.	10.8	10
119	CGC-Net: Cell Graph Convolutional Network for Grading of Colorectal Cancer Histology Images. , 2019, , .		94
120	Deep Multi-Model Fusion for Single-Image Dehazing. , 2019, , .		85
121	Mask-ShadowGAN: Learning to Remove Shadows From Unpaired Data. , 2019, , .		110
122	Depth-Attentional Features for Single-Image Rain Removal. , 2019, , .		191
123	Self-Attention based Network For Medical Query Expansion. , 2019, , .		5
124	MILD-Net: Minimal information loss dilated network for gland instance segmentation in colon histology images. Medical Image Analysis, 2019, 52, 199-211.	7.0	208
125	Webthetics: Quantifying webpage aesthetics with deep learning. International Journal of Human Computer Studies, 2019, 124, 56-66.	3.7	44
126	CATARACTS: Challenge on automatic tool annotation for cataRACT surgery. Medical Image Analysis, 2019, 52, 24-41.	7.0	58

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127	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.	5.4	84
128	SINet: A Scale-Insensitive Convolutional Neural Network for Fast Vehicle Detection. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1010-1019.	4.7	199
129	Bas-Relief Modeling from Normal Layers. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1651-1665.	2.9	35
130	Pyramid Network with Online Hard Example Mining for Accurate Left Atrium Segmentation. Lecture Notes in Computer Science, 2019, , 237-245.	1.0	15
131	Combating Uncertainty with Novel Losses for Automatic Left Atrium Segmentation. Lecture Notes in Computer Science, 2019, , 246-254.	1.0	11
132	Attention Based Hierarchical Aggregation Network for 3D Left Atrial Segmentation. Lecture Notes in Computer Science, 2019, , 255-264.	1.0	12
133	Unsupervised Domain Adaptation of ConvNets for Medical Image Segmentation via Adversarial Learning. Advances in Computer Vision and Pattern Recognition, 2019, , 93-115.	0.9	5
134	Boundary and Entropy-Driven Adversarial Learning for Fundus Image Segmentation. Lecture Notes in Computer Science, 2019, , 102-110.	1.0	57
135	Unifying Structure Analysis and Surrogate-Driven Function Regression for Glaucoma OCT Image Screening. Lecture Notes in Computer Science, 2019, , 39-47.	1.0	4
136	PFA-ScanNet: Pyramidal Feature Aggregation with Synergistic Learning for Breast Cancer Metastasis Analysis. Lecture Notes in Computer Science, 2019, , 586-594.	1.0	10
137	IRNet: Instance Relation Network for Overlapping Cervical Cell Segmentation. Lecture Notes in Computer Science, 2019, , 640-648.	1.0	30
138	Uncertainty-Aware Self-ensembling Model for Semi-supervised 3D Left Atrium Segmentation. Lecture Notes in Computer Science, 2019, , 605-613.	1.0	309
139	Robust Multimodal Brain Tumor Segmentation via Feature Disentanglement and Gated Fusion. Lecture Notes in Computer Science, 2019, , 447-456.	1.0	61
140	Deep Angular Embedding and Feature Correlation Attention for Breast MRI Cancer Analysis. Lecture Notes in Computer Science, 2019, , 504-512.	1.0	10
141	FetusMap: Fetal Pose Estimation in 3D Ultrasound. Lecture Notes in Computer Science, 2019, , 281-289.	1.0	2
142	Incorporating Temporal Prior from Motion Flow for Instrument Segmentation in Minimally Invasive Surgery Video. Lecture Notes in Computer Science, 2019, , 440-448.	1.0	54
143	An Active Learning Approach for Reducing Annotation Cost in Skin Lesion Analysis. Lecture Notes in Computer Science, 2019, , 628-636.	1.0	24
144	Virtual Bronchoscopy. The International Journal of Virtual Reality, 2019, 4, 21-43.	2.2	1

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145	Augmented Reality Guided Respiratory Liver Tumors Punctures: A Preliminary Feasibility Study. , 2019, , .		4
146	Thin-Feature-Aware Transport-Velocity Formulation for SPH-Based Liquid Animation. IEEE Transactions on Multimedia, 2018, 20, 3033-3044.	5.2	1
147	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.	7.0	110
148	Robust Support Matrix Machine for Single Trial EEG Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 551-562.	2.7	52
149	Large-Scale Bayesian Probabilistic Matrix Factorization with Memo-Free Distributed Variational Inference. ACM Transactions on Knowledge Discovery From Data, 2018, 12, 1-24.	2.5	5
150	Class-Balanced Deep Neural Network for Automatic Ventricular Structure Segmentation. Lecture Notes in Computer Science, 2018, , 152-160.	1.0	19
151	Feature-preserving ultrasound speckle reduction via L 0 minimization. Neurocomputing, 2018, 294, 48-60.	3.5	7
152	SV-RCNet: Workflow Recognition From Surgical Videos Using Recurrent Convolutional Network. IEEE Transactions on Medical Imaging, 2018, 37, 1114-1126.	5.4	184
153	VoxResNet: Deep voxelwise residual networks for brain segmentation from 3D MR images. NeuroImage, 2018, 170, 446-455.	2.1	539
154	Animating Wall-Bounded Turbulent Smoke via Filament-Mesh Particle-Particle Method. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 1260-1273.	2.9	5
155	Tracking topology structure adaptively with deep neural networks. Neural Computing and Applications, 2018, 30, 3317-3326.	3.2	3
156	Multiclass support matrix machine for single trial EEG classification. Neurocomputing, 2018, 275, 869-880.	3.5	48
157	Sparse Support Matrix Machine. Pattern Recognition, 2018, 76, 715-726.	5.1	59
158	Online Robust Projective Dictionary Learning: Shape Modeling for MR-TRUS Registration. IEEE Transactions on Medical Imaging, 2018, 37, 1067-1078.	5.4	12
159	Direction-Aware Spatial Context Features for Shadow Detection. , 2018, , .		142
160	PU-Net: Point Cloud Upsampling Network. , 2018, , .		310
161	Non-Local Low-Rank Normal Filtering for Mesh Denoising. Computer Graphics Forum, 2018, 37, 155-166.	1.8	31
162	Bidirectional Feature Pyramid Network with Recurrent Attention Residual Modules for Shadow Detection. Lecture Notes in Computer Science, 2018, , 122-137.	1.0	112

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163	MTMR-Net: Multi-task Deep Learning with Margin Ranking Loss for Lung Nodule Analysis. Lecture Notes in Computer Science, 2018, , 74-82.	1.0	16
164	Deep Attentional Features for Prostate Segmentation in Ultrasound. Lecture Notes in Computer Science, 2018, , 523-530.	1.0	59
165	Generalizing Deep Models for Ultrasound Image Segmentation. Lecture Notes in Computer Science, 2018, , 497-505.	1.0	16
166	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. IEEE Transactions on Medical Imaging, 2018, 37, 2514-2525.	5.4	926
167	Position based catheterization and angiography simulation. , 2018, , .		1
168	ScanNet: A Fast and Dense Scanning Framework for Metastatic Breast Cancer Detection from Whole-Slide Image. , 2018, , .		48
169	TwistIn. , 2018, 2, 1-24.		12
170	HL-FCN: Hybrid loss guided FCN for colorectal cancer segmentation. , 2018, , .		15
171	H-DenseUNet: Hybrid Densely Connected UNet for Liver and Tumor Segmentation From CT Volumes. IEEE Transactions on Medical Imaging, 2018, 37, 2663-2674.	5.4	1,439
172	Semantic-Aware Generative Adversarial Nets for Unsupervised Domain Adaptation in Chest X-Ray Segmentation. Lecture Notes in Computer Science, 2018, , 143-151.	1.0	99
173	Deeply Supervised Rotation Equivariant Network for Lesion Segmentation in Dermoscopy Images. Lecture Notes in Computer Science, 2018, , 235-243.	1.0	14
174	EC-Net: An Edge-Aware Point Set Consolidation Network. Lecture Notes in Computer Science, 2018, , 398-414.	1.0	134
175	3D Convolutional Networks for Fully Automatic Fine-Grained Whole Heart Partition. Lecture Notes in Computer Science, 2018, , 181-189.	1.0	12
176	Hybrid Loss Guided Convolutional Networks for Whole Heart Parsing. Lecture Notes in Computer Science, 2018, , 215-223.	1.0	16
177	R ³ Net: Recurrent Residual Refinement Network for Saliency Detection. , 2018, , .		253
178	Unsupervised Cross-Modality Domain Adaptation of ConvNets for Biomedical Image Segmentations with Adversarial Loss. , 2018, , .		183
179	3D FractalNet: Dense Volumetric Segmentation for Cardiovascular MRI Volumes. Lecture Notes in Computer Science, 2017, , 103-110.	1.0	27
180	Fast feature-preserving speckle reduction for ultrasound images via phase congruency. Signal Processing, 2017, 134, 275-284.	2.1	21

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181	The Height-Width-Depth Ratios of the Intervertebral Discs and Vertebral Bodies in Adolescent Idiopathic Scoliosis vs Controls in a Chinese Population. Scientific Reports, 2017, 7, 46448.	1.6	12
182	Filament-based realistic turbulent wake synthesis. Computer Animation and Virtual Worlds, 2017, 28, e1754.	0.7	2
183	3D deeply supervised network for automated segmentation of volumetric medical images. Medical Image Analysis, 2017, 41, 40-54.	7.0	444
184	Ultrasound Standard Plane Detection Using a Composite Neural Network Framework. IEEE Transactions on Cybernetics, 2017, 47, 1576-1586.	6.2	118
185	Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks. IEEE Transactions on Medical Imaging, 2017, 36, 994-1004.	5.4	763
186	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.	3.9	184
187	Automated Pulmonary Nodule Detection via 3D ConvNets with Online Sample Filtering and Hybrid-Loss Residual Learning. Lecture Notes in Computer Science, 2017, , 630-638.	1.0	90
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