

Hao Chen

List of Publications by Year in descending order

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101
papers

13,999
citations

53789

45
h-index

54911

84
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102
all docs

102
docs citations

102
times ranked

13597
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.4	2,003
2	H-DenseUNet: Hybrid Densely Connected UNet for Liver and Tumor Segmentation From CT Volumes. IEEE Transactions on Medical Imaging, 2018, 37, 2663-2674.	8.9	1,439
3	Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks. IEEE Transactions on Medical Imaging, 2017, 36, 994-1004.	8.9	763
4	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.	11.6	710
5	VoxResNet: Deep voxelwise residual networks for brain segmentation from 3D MR images. NeuroImage, 2018, 170, 446-455.	4.2	539
6	Gland segmentation in colon histology images: The glas challenge contest. Medical Image Analysis, 2017, 35, 489-502.	11.6	516
7	Automatic Detection of Cerebral Microbleeds From MR Images via 3D Convolutional Neural Networks. IEEE Transactions on Medical Imaging, 2016, 35, 1182-1195.	8.9	507
8	3D deeply supervised network for automated segmentation of volumetric medical images. Medical Image Analysis, 2017, 41, 40-54.	11.6	444
9	Multilevel Contextual 3-D CNNs for False Positive Reduction in Pulmonary Nodule Detection. IEEE Transactions on Biomedical Engineering, 2017, 64, 1558-1567.	4.2	436
10	DCAN: Deep Contour-Aware Networks for Accurate Gland Segmentation. , 2016, , .		363
11	DCAN: Deep contour-aware networks for object instance segmentation from histology images. Medical Image Analysis, 2017, 36, 135-146.	11.6	361
12	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.	8.9	297
13	Standard Plane Localization in Fetal Ultrasound via Domain Transferred Deep Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1627-1636.	6.3	291
14	From Detection of Individual Metastases to Classification of Lymph Node Status at the Patient Level: The CAMELYON17 Challenge. IEEE Transactions on Medical Imaging, 2019, 38, 550-560.	8.9	269
15	A Multi-Organ Nucleus Segmentation Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 1380-1391.	8.9	259
16	Transformation-Consistent Self-Ensembling Model for Semisupervised Medical Image Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 523-534.	11.3	240
17	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.	8.9	230
18	Deep Learning for Automated Contouring of Primary Tumor Volumes by MRI for Nasopharyngeal Carcinoma. Radiology, 2019, 291, 677-686.	7.3	221

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19	MILD-Net: Minimal information loss dilated network for gland instance segmentation in colon histology images. <i>Medical Image Analysis</i> , 2019, 52, 199-211.	11.6	208
20	SINet: A Scale-Insensitive Convolutional Neural Network for Fast Vehicle Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019, 20, 1010-1019.	8.0	199
21	Weakly Supervised Deep Learning for Whole Slide Lung Cancer Image Analysis. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 3950-3962.	9.5	198
22	3D Deeply Supervised Network for Automatic Liver Segmentation from CT Volumes. <i>Lecture Notes in Computer Science</i> , 2016, , 149-157.	1.3	191
23	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.	6.3	184
24	SV-RCNet: Workflow Recognition From Surgical Videos Using Recurrent Convolutional Network. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1114-1126.	8.9	184
25	PnP-AdaNet: Plug-and-Play Adversarial Domain Adaptation Network at Unpaired Cross-Modality Cardiac Segmentation. <i>IEEE Access</i> , 2019, 7, 99065-99076.	4.2	124
26	RMDL: Recalibrated multi-instance deep learning for whole slide gastric image classification. <i>Medical Image Analysis</i> , 2019, 58, 101549.	11.6	121
27	Ultrasound Standard Plane Detection Using a Composite Neural Network Framework. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 1576-1586.	9.5	118
28	Multi-task recurrent convolutional network with correlation loss for surgical video analysis. <i>Medical Image Analysis</i> , 2020, 59, 101572.	11.6	116
29	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.	11.6	110
30	Automatic 3D Cardiovascular MR Segmentation with Densely-Connected Volumetric ConvNets. <i>Lecture Notes in Computer Science</i> , 2017, , 287-295.	1.3	105
31	CIA-Net: Robust Nuclei Instance Segmentation with Contour-Aware Information Aggregation. <i>Lecture Notes in Computer Science</i> , 2019, , 682-693.	1.3	103
32	Semantic-Aware Generative Adversarial Nets for Unsupervised Domain Adaptation in Chest X-Ray Segmentation. <i>Lecture Notes in Computer Science</i> , 2018, , 143-151.	1.3	99
33	Detection of glaucomatous optic neuropathy with spectral-domain optical coherence tomography: a retrospective training and validation deep-learning analysis. <i>The Lancet Digital Health</i> , 2019, 1, e172-e182.	12.3	97
34	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.	3.4	91
35	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.	1.3	90
36	Towards a new generation of artificial intelligence in China. <i>Nature Machine Intelligence</i> , 2020, 2, 312-316.	16.0	90

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37	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.	8.9	84
38	Automatic Fetal Ultrasound Standard Plane Detection Using Knowledge Transferred Recurrent Neural Networks. Lecture Notes in Computer Science, 2015, , 507-514.	1.3	83
39	Multi-Task Deep Model With Margin Ranking Loss for Lung Nodule Analysis. IEEE Transactions on Medical Imaging, 2020, 39, 718-728.	8.9	80
40	Automatic Localization and Identification of Vertebrae in Spine CT via a Joint Learning Model with Deep Neural Networks. Lecture Notes in Computer Science, 2015, , 515-522.	1.3	78
41	Deficient human β -defensin 1 underlies male infertility associated with poor sperm motility and genital tract infection. Science Translational Medicine, 2014, 6, 249ra108.	12.4	69
42	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.	11.6	59
43	Deep virtual adversarial self-training with consistency regularization for semi-supervised medical image classification. Medical Image Analysis, 2021, 70, 102010.	11.6	57
44	Robust Learning at Noisy Labeled Medical Images: Applied to Skin Lesion Classification. , 2019, , .		56
45	Iterative Multi-domain Regularized Deep Learning for Anatomical Structure Detection and Segmentation from Ultrasound Images. Lecture Notes in Computer Science, 2016, , 487-495.	1.3	52
46	Deep Mining External Imperfect Data for Chest X-Ray Disease Screening. IEEE Transactions on Medical Imaging, 2020, 39, 3583-3594.	8.9	51
47	ScanNet: A Fast and Dense Scanning Framework for Metastatic Breast Cancer Detection from Whole-Slide Image. , 2018, , .		48
48	UD-MIL: Uncertainty-Driven Deep Multiple Instance Learning for OCT Image Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3431-3442.	6.3	47
49	Towards multi-center glaucoma OCT image screening with semi-supervised joint structure and function multi-task learning. Medical Image Analysis, 2020, 63, 101695.	11.6	47
50	3-D Rol-Aware U-Net for Accurate and Efficient Colorectal Tumor Segmentation. IEEE Transactions on Cybernetics, 2021, 51, 5397-5408.	9.5	44
51	CD147 is required for matrix metalloproteinases-2 production and germ cell migration during spermatogenesis. Molecular Human Reproduction, 2011, 17, 405-414.	2.8	43
52	Automatic detection of cerebral microbleeds via deep learning based 3D feature representation. , 2015, , .		43
53	3D Fully Convolutional Networks for Intervertebral Disc Localization and Segmentation. Lecture Notes in Computer Science, 2016, , 375-382.	1.3	38
54	Gastric histopathology image segmentation using a hierarchical conditional random field. Biocybernetics and Biomedical Engineering, 2020, 40, 1535-1555.	5.9	35

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55	New insights into germ cell migration and survival/apoptosis in spermatogenesis. <i>Spermatogenesis</i> , 2012, 2, 264-272.	0.8	31
56	IRNet: Instance Relation Network for Overlapping Cervical Cell Segmentation. <i>Lecture Notes in Computer Science</i> , 2019, , 640-648.	1.3	30
57	Up-regulation of Bcl-2 by CD147 Through ERK Activation Results in Abnormal Cell Survival in Human Endometriosis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, E955-E963.	3.6	29
58	Automated mitosis detection with deep regression networks. , 2016, , .		28
59	CD147 Induces Epithelial-to-Mesenchymal Transition by Disassembling Cellular Apoptosis Susceptibility Protein/E-Cadherin/ β -Catenin Complex in Human Endometriosis. <i>American Journal of Pathology</i> , 2018, 188, 1597-1607.	3.8	28
60	Dual-path network with synergistic grouping loss and evidence driven risk stratification for whole slide cervical image analysis. <i>Medical Image Analysis</i> , 2021, 69, 101955.	11.6	28
61	Potentials of AI in medical image analysis in Gastroenterology and Hepatology. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2021, 36, 31-38.	2.8	27
62	A Multitask Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multicenter Analysis. <i>Diabetes Care</i> , 2021, 44, 2078-2088.	8.6	27
63	CD147 regulates apoptosis in mouse spermatocytes but not spermatogonia. <i>Human Reproduction</i> , 2012, 27, 1568-1576.	0.9	26
64	Deep Semi-supervised Knowledge Distillation for Overlapping Cervical Cell Instance Segmentation. <i>Lecture Notes in Computer Science</i> , 2020, , 521-531.	1.3	25
65	An Artificial Intelligence System for the Detection of Bladder Cancer via Cystoscopy: A Multicenter Diagnostic Study. <i>Journal of the National Cancer Institute</i> , 2022, 114, 220-227.	6.3	24
66	An Active Learning Approach for Reducing Annotation Cost in Skin Lesion Analysis. <i>Lecture Notes in Computer Science</i> , 2019, , 628-636.	1.3	24
67	CD147 regulates extrinsic apoptosis in spermatocytes by modulating NF κ B signaling pathways. <i>Oncotarget</i> , 2017, 8, 3132-3143.	1.8	24
68	Dual-Consistency Semi-supervised Learning with Uncertainty Quantification for COVID-19 Lesion Segmentation from CT Images. <i>Lecture Notes in Computer Science</i> , 2021, , 199-209.	1.3	23
69	CCR6 is required for ligand-induced CatSper activation in human sperm. <i>Oncotarget</i> , 2017, 8, 91445-91458.	1.8	20
70	PDBL: Improving Histopathological Tissue Classification With Plug-and-Play Pyramidal Deep-Broad Learning. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 2252-2262.	8.9	20
71	Development and Evaluation of a Deep Learning Algorithm for Rib Segmentation and Fracture Detection from Multicenter Chest CT Images. <i>Radiology: Artificial Intelligence</i> , 2021, 3, e200248.	5.8	19
72	Rectifying Supporting Regions With Mixed and Active Supervision for Rib Fracture Recognition. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3843-3854.	8.9	17

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73	MTMR-Net: Multi-task Deep Learning with Margin Ranking Loss for Lung Nodule Analysis. Lecture Notes in Computer Science, 2018, , 74-82.	1.3	16
74	Elevated expression of CD147 in patients with endometriosis and its role in regulating apoptosis and migration of human endometrial cells. Fertility and Sterility, 2014, 101, 1681-1687.e1.	1.0	15
75	HL-FCN: Hybrid loss guided FCN for colorectal cancer segmentation. , 2018, , .		15
76	AGNet: Attention-Guided Network for Surgical Tool Presence Detection. Lecture Notes in Computer Science, 2017, , 186-194.	1.3	14
77	Upregulation of CFTR in patients with endometriosis and its involvement in NF κ B-uPAR dependent cell migration. Oncotarget, 2017, 8, 66951-66959.	1.8	14
78	The design of permanent-magnetic wheeled wall-climbing robot. , 2017, , .		13
79	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.	3.3	12
80	PRNet: Part Relation and Selection Network for Bone Age Assessment. Lecture Notes in Computer Science, 2019, , 413-421.	1.3	12
81	Automatic cerebral microbleeds detection from MR images via Independent Subspace Analysis based hierarchical features. , 2015, 2015, 7933-6.		11
82	Inhibition of angiogenesis by a novel neutralizing antibody targeting human VEGFR-3. MAbs, 2013, 5, 956-961.	5.2	10
83	OXnet: Deep Omni-Supervised Thoracic Disease Detection from Chest X-Rays. Lecture Notes in Computer Science, 2021, , 537-548.	1.3	10
84	PFA-ScanNet: Pyramidal Feature Aggregation with Synergistic Learning for Breast Cancer Metastasis Analysis. Lecture Notes in Computer Science, 2019, , 586-594.	1.3	10
85	Deep Angular Embedding and Feature Correlation Attention for Breast MRI Cancer Analysis. Lecture Notes in Computer Science, 2019, , 504-512.	1.3	10
86	Three-Dimensional Multi-Task Deep Learning Model to Detect Glaucomatous Optic Neuropathy and Myopic Features From Optical Coherence Tomography Scans: A Retrospective Multi-Centre Study. Frontiers in Medicine, 0, 9, .	2.6	8
87	CD147 deficiency is associated with impaired sperm motility/acrosome reaction and offers a therapeutic target for asthenozoospermia. Molecular Therapy - Nucleic Acids, 2021, 26, 1374-1386.	5.1	6
88	Unsupervised Domain Adaptation of ConvNets for Medical Image Segmentation via Adversarial Learning. Advances in Computer Vision and Pattern Recognition, 2019, , 93-115.	1.3	5
89	Multi-scale and Modality Dropout Learning for Intervertebral Disc Localization and Segmentation. Lecture Notes in Computer Science, 2016, , 85-91.	1.3	5
90	Deep Semi-Supervised Metric Learning with Dual Alignment for Cervical Cancer Cell Detection. , 2022, , .		5

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91	Unifying Structure Analysis and Surrogate-Driven Function Regression for Glaucoma OCT Image Screening. Lecture Notes in Computer Science, 2019, , 39-47.	1.3	4
92	Reconstitution of coronary vasculature by an active fraction of Geum japonicum in ischemic hearts. Scientific Reports, 2015, 4, 3962.	3.3	3
93	Deep Cascaded Networks for Sparsely Distributed Object Detection from Medical Images. , 2017, , 133-154.		3
94	Automatic lesion detection with three-dimensional convolutional neural networks. , 2020, , 265-293.		3
95	Square Localization for Efficient and Accurate Object Detection. , 2015, , .		2
96	Expression of cellular apoptosis susceptibility (CAS) in the human testis and testicular germ cell tumors. Medical Oncology, 2019, 36, 61.	2.5	2
97	A Multi-Task Deep-Learning System to Classify Diabetic Macular Edema for Different Optical Coherence Tomography Devices: A Multi-Centre Analysis. SSRN Electronic Journal, 0, , .	0.4	1
98	Reconstitution of coronary vasculature in ischemic hearts. Cell Biology International, 2008, 32, S13-S13.	3.0	0
99	Generation of scFv specific to human VEGFR-3 from the neutralizing mAb BDD073. Protein Engineering, Design and Selection, 2015, 28, 19-22.	2.1	0
100	Deep multilevel contextual networks for biomedical image segmentation. , 2020, , 231-247.		0
101	Sample Alignment for Image-to-Image Translation Based Medical Domain Adaptation. , 2022, , .		0