Huazhu Fu

List of Publications by Year in Descending Order

133 papers	5,742 citations	40 h-index	73 g-index
145 ext. papers	8,456 ext. citations	6.4 avg, IF	6.61 L-index

#	Paper	IF	Citations
133	An Annotation-free Restoration Network for Cataractous Fundus Images.. *IEEE Transactions on Medical Imaging*, **2022**, PP,	11.7	4
132	Boosting RGB-D Saliency Detection by Leveraging Unlabeled RGB Images.. *IEEE Transactions on Image Processing*, **2022**, 31, 1107-1119	8.7	1
131	Attention to region: Region-based integration-and-recalibration networks for nuclear cataract classification using AS-OCT images. *Medical Image Analysis*, **2022**, 102499	15.4	0
130	**2021**,		12
129	Triple-cooperative Video Shadow Detection **2021**,		5
128	From Synthetic to Real: Image Dehazing Collaborating with Unlabeled Real Data **2021**,		6
127	Modeling and Enhancing Low-Quality Retinal Fundus Images. *IEEE Transactions on Medical Imaging*, **2021**, 40, 996-1006	11.7	14
126	ROSE: A Retinal OCT-Angiography Vessel Segmentation Dataset and New Model. *IEEE Transactions on Medical Imaging*, **2021**, 40, 928-939	11.7	40
125	Contrast-Attentive Thoracic Disease Recognition With Dual-Weighting Graph Reasoning. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1196-1206	11.7	9
124	Deep triplet hashing network for case-based medical image retrieval. *Medical Image Analysis*, **2021**, 69, 101981	15.4	8
123	Towards 'automated gonioscopy': a deep learning algorithm for 360°angle assessment by swept-source optical coherence tomography. *British Journal of Ophthalmology*, **2021**,	5.5	1
122	Applications of deep learning in fundus images: A review. *Medical Image Analysis*, **2021**, 69, 101971	15.4	47
121	Global guidance network for breast lesion segmentation in ultrasound images. *Medical Image Analysis*, **2021**, 70, 101989	15.4	19
120	Cross-View Equivariant Auto-Encoder **2021**,		2
119	ASIF-Net: Attention Steered Interweave Fusion Network for RGB-D Salient Object Detection. *IEEE Transactions on Cybernetics*, **2021**, 51, 88-100	10.2	76
118	RGB-D salient object detection via cross-modal joint feature extraction and low-bound fusion loss. *Neurocomputing*, **2021**, 453, 623-635	5.4	2
117	CS-Net: Deep learning segmentation of curvilinear structures in medical imaging. *Medical Image Analysis*, **2021**, 67, 101874	15.4	37

116	CABNet: Category Attention Block for Imbalanced Diabetic Retinopathy Grading. *IEEE Transactions on Medical Imaging*, **2021**, 40, 143-153	11.7	41
115	Deep-LIFT: Deep Label-Specific Feature Learning for Image Annotation. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	8
114	Combating Ambiguity for Hash-Code Learning in Medical Instance Retrieval. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 3943-3954	7.2	0
113	Re-thinking Co-Salient Object Detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	12
112	Salient Object Detection in the Deep Learning Era: An In-depth Survey. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	82
111	Structure and Illumination Constrained GAN for Medical Image Enhancement. *IEEE Transactions on Medical Imaging*, **2021**, 40, 3955-3967	11.7	6
110	Hybrid Variation-aware Network for Angle-closure Assessment in AS-OCT. *IEEE Transactions on Medical Imaging*, **2021**, PP,	11.7	2
109	A Multi-branch Hybrid Transformer Network for Corneal Endothelial Cell Segmentation. *Lecture Notes in Computer Science*, **2021**, 99-108	0.9	6
108	Multi-modality Images Analysis: A Baseline for Glaucoma Grading via Deep Learning. *Lecture Notes in Computer Science*, **2021**, 139-147	0.9	
107	Deep video action clustering via spatio-temporal feature learning. *Neurocomputing*, **2021**, 456, 519-527	5.4	7
106	Few-Shot Domain Adaptation with Polymorphic Transformers. *Lecture Notes in Computer Science*, **2021**, 330-340	0.9	2
105	Specificity-preserving RGB-D Saliency Detection **2021**,		25
104	**2020**,		20
103	A Retrospective Comparison of Deep Learning to Manual Annotations for Optic Disc and Optic Cup Segmentation in Fundus Photographs. *Translational Vision Science and Technology*, **2020**, 9, 33	3.3	4
102	Correction to Noise Adaptation Generative Adversarial Network for Medical Image Analysis *IEEE Transactions on Medical Imaging*, **2020**, 39, 2566-2567	11.7	
101	Hi-Net: Hybrid-Fusion Network for Multi-Modal MR Image Synthesis. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2772-2781	11.7	63
100	Tensorized Multi-view Subspace Representation Learning. *International Journal of Computer Vision*, **2020**, 128, 2344-2361	10.6	25
99	Text Co-detection in Multi-view Scene. *IEEE Transactions on Image Processing*, **2020**,	8.7	5

98	Inf-Net: Automatic COVID-19 Lung Infection Segmentation From CT Images. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2626-2637	11.7	332
97	NuI-Go: Recursive Non-Local Encoder-Decoder Network for Retinal Image Non-Uniform Illumination Removal **2020**,		4
96	Reconstruction and Quantification of 3D Iris Surface for Angle-Closure Glaucoma Detection in Anterior Segment OCT. *Lecture Notes in Computer Science*, **2020**, 704-714	0.9	1
95	(text {M}^2text {Net}): Multi-modal Multi-channel Network for Overall Survival Time Prediction of Brain Tumor Patients. *Lecture Notes in Computer Science*, **2020**, 221-231	0.9	5
94	Open-Appositional-Synechial Anterior Chamber Angle Classification in AS-OCT Sequences. *Lecture Notes in Computer Science*, **2020**, 715-724	0.9	3
93	Retinal Image Segmentation with a Structure-Texture Demixing Network. *Lecture Notes in Computer Science*, **2020**, 765-774	0.9	4
92	A Second-Order Subregion Pooling Network for Breast Lesion Segmentation in Ultrasound. *Lecture Notes in Computer Science*, **2020**, 160-170	0.9	4
91	PraNet: Parallel Reverse Attention Network for Polyp Segmentation. *Lecture Notes in Computer Science*, **2020**, 263-273	0.9	111
90	A Recursive Constrained Framework for Unsupervised Video Action Clustering. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 555-565	11.9	6
89	AGE challenge: Angle Closure Glaucoma Evaluation in Anterior Segment Optical Coherence Tomography. *Medical Image Analysis*, **2020**, 66, 101798	15.4	20
88	Taking a Deeper Look at Co-Salient Object Detection **2020**,		24
87	M Lung-Sys: A Deep Learning System for Multi-Class Lung Pneumonia Screening From CT Imaging. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 3539-3550	7.2	18
86	Deep Partial Multi-View Learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, PP,	13.3	19
85	Joint spatial-spectral hyperspectral image classification based on convolutional neural network. *Pattern Recognition Letters*, **2020**, 130, 38-45	4.7	33
84	Unsupervised Video Action Clustering via Motion-Scene Interaction Constraint. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 131-144	6.4	14
83	Generalized Latent Multi-View Subspace Clustering. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 86-99	13.3	177
82	Hybrid Noise-Oriented Multilabel Learning. *IEEE Transactions on Cybernetics*, **2020**, 50, 2837-2850	10.2	18
81	Angle-Closure Detection in Anterior Segment OCT Based on Multilevel Deep Network. *IEEE Transactions on Cybernetics*, **2020**, 50, 3358-3366	10.2	25

80	JointRCNN: A Region-Based Convolutional Neural Network for Optic Disc and Cup Segmentation. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 335-343	5	39
79	Going From RGB to RGBD Saliency: A Depth-Guided Transformation Model. *IEEE Transactions on Cybernetics*, **2020**, 50, 3627-3639	10.2	80
78	Noise Adaptation Generative Adversarial Network for Medical Image Analysis. *IEEE Transactions on Medical Imaging*, **2020**, 39, 1149-1159	11.7	19
77	REFUGE Challenge: A unified framework for evaluating automated methods for glaucoma assessment from fundus photographs. *Medical Image Analysis*, **2020**, 59, 101570	15.4	147
76	. *IEEE Transactions on Multimedia*, **2020**, 22, 704-716	6.6	50
75	An efficient privacy protection scheme for data security in video surveillance. *Journal of Visual Communication and Image Representation*, **2019**, 59, 347-362	2.7	12
74	DeepAMD: Detect Early Age-Related Macular Degeneration by Applying Deep Learning in a Multiple Instance Learning Framework. *Lecture Notes in Computer Science*, **2019**, 625-640	0.9	4
73	Multi-View Saliency-Guided Clustering for Image Cosegmentation. *IEEE Transactions on Image Processing*, **2019**,	8.7	7
72	CE-Net: Context Encoder Network for 2D Medical Image Segmentation. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2281-2292	11.7	471
71	A Deep Learning System for Automated Angle-Closure Detection in Anterior Segment Optical Coherence Tomography Images. *American Journal of Ophthalmology*, **2019**, 203, 37-45	4.9	60
70	Video Saliency Detection via Sparsity-Based Reconstruction and Propagation. *IEEE Transactions on Image Processing*, **2019**, 28, 4819-4831	8.7	46
69	Foreground Detection and Segmentation in RGB-D Images. *Advances in Computer Vision and Pattern Recognition*, **2019**, 221-241	1.1	
68	Inter-modality Dependence Induced Data Recovery for MCI Conversion Prediction. *Lecture Notes in Computer Science*, **2019**, 186-195	0.9	2
67	Deep Multi-modal Latent Representation Learning for Automated Dementia Diagnosis. *Lecture Notes in Computer Science*, **2019**, 629-638	0.9	6
66	Glaucoma Detection Based on Deep Learning Network in Fundus Image. *Advances in Computer Vision and Pattern Recognition*, **2019**, 119-137	1.1	7
65	ET-Net: A Generic Edge-aTtention Guidance Network for Medical Image Segmentation. *Lecture Notes in Computer Science*, **2019**, 442-450	0.9	50
64	Evaluation of Retinal Image Quality Assessment Networks in Different Color-Spaces. *Lecture Notes in Computer Science*, **2019**, 48-56	0.9	30
63	Attention Guided Network for Retinal Image Segmentation. *Lecture Notes in Computer Science*, **2019**, 797-805	0.9	43

62	Spatiotemporal Breast Mass Detection Network (MD-Net) in 4D DCE-MRI Images. *Lecture Notes in Computer Science*, **2019**, 271-279	0.9	3
61	SkrGAN: Sketching-Rendering Unconditional Generative Adversarial Networks for Medical Image Synthesis. *Lecture Notes in Computer Science*, **2019**, 777-785	0.9	16
60	. *IEEE Transactions on Multimedia*, **2019**, 21, 1660-1671	6.6	51
59	A Deep Step Pattern Representation for Multimodal Retinal Image Registration **2019**,		14
58	**2019**,		19
57	**2019**,		30
56	Retinal vascular analysis: Segmentation, tracing, and beyond **2019**, 95-120		1
55	Structure-preserving guided retinal image filtering for optic disc analysis **2019**, 199-221		3
54	Response: Optical Coherence Tomography Angiography of Optic Disc and Macula Vessel Density in Glaucoma and Healthy Eyes. *Journal of Glaucoma*, **2019**, 28, e132-e133	2.1	2
53	Anterior Chamber Angles Classification in Anterior Segment OCT Images via Multi-Scale Regions Convolutional Neural Networks. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 849-852	0.9	7
52	Person Re-Identification by Semantic Region Representation and Topology Constraint. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 29, 2453-2466	6.4	17
51	Optical Coherence Tomography Angiography of Optic Disc and Macula Vessel Density in Glaucoma and Healthy Eyes. *Journal of Glaucoma*, **2019**, 28, 80-87	2.1	34
50	Review of Visual Saliency Detection With Comprehensive Information. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 29, 2941-2959	6.4	159
49	An Iterative Co-Saliency Framework for RGBD Images. *IEEE Transactions on Cybernetics*, **2019**, 49, 233-246	20.2	67
48	YoTube: Searching Action Proposal Via Recurrent and Static Regression Networks. *IEEE Transactions on Image Processing*, **2018**, 27, 2609-2622	8.7	40
47	Co-Saliency Detection for RGBD Images Based on Multi-Constraint Feature Matching and Cross Label Propagation. *IEEE Transactions on Image Processing*, **2018**, 27, 568-579	8.7	88
46	Joint Optic Disc and Cup Segmentation Based on Multi-Label Deep Network and Polar Transformation. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1597-1605	11.7	339
45	A Review of Co-Saliency Detection Algorithms. *ACM Transactions on Intelligent Systems and Technology*, **2018**, 9, 1-31	8	52

44	A Cascaded Convolutional Neural Network for Single Image Dehazing. *IEEE Access*, **2018**, 6, 24877-24887	3.5	54
43	Ocular disease detection from multiple informatics domains **2018**,		2
42	Multi-context Deep Network for Angle-Closure Glaucoma Screening in Anterior Segment OCT. *Lecture Notes in Computer Science*, **2018**, 356-363	0.9	17
41	Hierarchical Features Driven Residual Learning for Depth Map Super-Resolution. *IEEE Transactions on Image Processing*, **2018**,	8.7	73
40	Optic Disc and Cup Segmentation with Blood Vessel Removal from Fundus Images for Glaucoma Detection. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 862-865	0.9	9
39	Localizing Optic Disc and Cup for Glaucoma Screening via Deep Object Detection Networks. *Lecture Notes in Computer Science*, **2018**, 236-244	0.9	9
38	Disc-Aware Ensemble Network for Glaucoma Screening From Fundus Image. *IEEE Transactions on Medical Imaging*, **2018**, 37, 2493-2501	11.7	164
37	Structure-Preserving Guided Retinal Image Filtering and Its Application for Optic Disk Analysis. *IEEE Transactions on Medical Imaging*, **2018**, 37, 2536-2546	11.7	28
36	Object-Based Multiple Foreground Segmentation in RGBD Video. *IEEE Transactions on Image Processing*, **2017**, 26, 1418-1427	8.7	38
35	Segmentation and Quantification for Angle-Closure Glaucoma Assessment in Anterior Segment OCT. *IEEE Transactions on Medical Imaging*, **2017**, 36, 1930-1938	11.7	61
34	Update on the application of optic nerve sheath fenestration. *Restorative Neurology and Neuroscience*, **2017**, 35, 275-286	2.8	8
33	Breast Tumor Detection in Ultrasound Images Using Deep Learning. *Lecture Notes in Computer Science*, **2017**, 121-128	0.9	19
32	Improving the Efficiency and Effectiveness of Community Detection via Prior-Induced Equivalent Super-Network. *Scientific Reports*, **2017**, 7, 634	4.9	10
31	Flexible Multi-View Dimensionality Co-Reduction. *IEEE Transactions on Image Processing*, **2017**, 26, 648-659	8.7	66
30	Extract-and-match geometric corner and step pattern approach for registration of fluoroscopic X-ray sequences. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 568-571	0.9	
29	Latent Multi-view Subspace Clustering **2017**,		149
28	Exploring the roles of cannot-link constraint in community detection via Multi-variance Mixed Gaussian Generative Model. *PLoS ONE*, **2017**, 12, e0178029	3.7	7
27	Unsupervised pixel-level video foreground object segmentation via shortest path algorithm. *Neurocomputing*, **2016**, 172, 235-243	5.4	17

26	DeepVessel: Retinal Vessel Segmentation via Deep Learning and Conditional Random Field. *Lecture Notes in Computer Science*, **2016**, 132-139	0.9	156
25	Automatic anterior chamber angle structure segmentation in AS-OCT image based on label transfer. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 1288-1291	0.9	7
24	Saliency-Aware Nonparametric Foreground Annotation Based on Weakly Labeled Data. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 1253-65	10.3	23
23	Axial Alignment for Anterior Segment Swept Source Optical Coherence Tomography via Robust Low-Rank Tensor Recovery. *Lecture Notes in Computer Science*, **2016**, 441-449	0.9	3
22	Retinal vessel segmentation via deep learning network and fully-connected conditional random fields **2016**,		122
21	Object-Based Multiple Foreground Video Co-Segmentation via Multi-State Selection Graph. *IEEE Transactions on Image Processing*, **2015**, 24, 3415-24	8.7	57
20	Constrained Multi-View Video Face Clustering. *IEEE Transactions on Image Processing*, **2015**, 24, 4381-93	8.7	62
19	Low-Rank Tensor Constrained Multiview Subspace Clustering **2015**,		169
18	Object-based RGBD image co-segmentation with mutex constraint **2015**,		57
17	Diversity-induced Multi-view Subspace Clustering **2015**,		238
16	Automatic optic disc detection in OCT slices via low-rank reconstruction. *IEEE Transactions on Biomedical Engineering*, **2015**, 62, 1151-8	5	19
15	Multi-cue Augmented Face Clustering **2015**,		10
14	. *IEEE Transactions on Multimedia*, **2014**, 16, 1165-1175	6.6	31
13	Self-adaptively Weighted Co-saliency Detection via Rank Constraint. *IEEE Transactions on Image Processing*, **2014**, 23, 4175-4186	8.7	89
12	Depth Enhanced Saliency Detection Method **2014**,		115
11	Object-Based Multiple Foreground Video Co-segmentation **2014**,		53
10	Symmetry constraint for foreground extraction. *IEEE Transactions on Cybernetics*, **2014**, 44, 644-54	10.2	10
9	Co-Saliency Detection via Base Reconstruction **2014**,		20

8	Cluster-based co-saliency detection. *IEEE Transactions on Image Processing*, **2013**, 22, 3766-78	8.7	266
7	Blind Robust Watermarking Mechanism Based on Maxima Curvature of 3D Motion Data. *Lecture Notes in Computer Science*, **2013**, 110-124	0.9	1
6	. *IEEE Transactions on Information Forensics and Security*, **2012**, 7, 1301-1314	8	16
5	Topology Preserved Regular Superpixel **2012**,		23
4	Embedded omni-vision navigator based on multi-object tracking. *Machine Vision and Applications*, **2011**, 22, 349-358	2.8	5
3	Beacon Tracking with an Embedded Omni-vision System **2009**,		2
2	Inf-Net: Automatic COVID-19 Lung Infection Segmentation from CT Images		23
1	Unsupervised Spatially Embedded Deep Representation of Spatial Transcriptomics		4