

Huazhu Fu | Curriculum Vitae

☎ +65 82877976 • ✉ hzfu@ieee.org • 🌐 hzfu.github.io • 📄 Google Scholar

Experiences

- 1: Principal Scientist,** 2021.08 – present,
Institute of High Performance Computing, Agency for Science, Technology and Research (A*STAR), Singapore.
- 2: Senior Scientist,** 2018.11 – 2021.07,
Inception Institute of Artificial Intelligence (IIAI), Abu Dhabi, United Arab Emirates.
- 3: Scientist,** 2015.10 – 2018.11,
Institute for Infocomm Research, Agency for Science, Technology and Research (A*STAR), Singapore.
- 4: Research Fellow,** 2013.08 – 2015.09,
School of Computer Engineering, Nanyang Technological University (NTU), Singapore.
- 5: Research Intern,** 2012.07 – 2013.01,
Systems Research Group, Microsoft Research Asia, China.

Education

- | | |
|--|---------------------------------|
| Tianjin University, China
<i>in School of Computer Science</i> | Ph.D.
2010.09–2013.06 |
| Tianjin University of Technology, China
<i>in School of Mechatronics Engineering</i> | M.E.
2007.09–2010.03 |
| Nankai University, China
<i>in School of Information and Numerical Science</i> | B.S.
2002.09–2006.06 |

Professional Activities

IEEE Senior Member
Member of of the IEEE Bio Imaging and Signal Processing Technical Committee (**BISP TC**).

Associate Editor:

- IEEE Transactions on Medical Imaging ($IF=10.6$, 2020 - present)
- IEEE Transactions on Neural Networks and Learning Systems ($IF=10.4$, 2022 - present)
- IEEE Journal of Biomedical and Health Informatics (7.7, 2020 - present)
- IEEE Transactions on Artificial Intelligence (2023 - present)
- Scientific Reports ($IF=4.996$, 2021 - present).
- IEEE Access ($IF=3.9$, 2018 - present).

Guest Editor:

1. IEEE JBHI, Special Issue on "Foundation Models in Medical Imaging", 2023.
2. IEEE TMI, Special Issue on "Geometric Deep Learning in Medical Imaging", 2022.
3. IEEE JBHI, Special Issue on "Generative Adversarial Networks in Biomedical Image Computing", 2021.
4. IEEE JBHI, Special Issue on "Ophthalmic Image Analysis and Informatics", 2020.

Area Chair/Senior Program Committee:

1. International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2021-2023.
2. International Joint Conference on Artificial Intelligence (IJCAI), 2021.
3. ACM International Conference on Multimedia in Asia (MM Asia), 2021.
4. AAAI Conference on Artificial Intelligence (AAAI), 2022.
5. Medical Imaging with Deep Learning (MIDL), 2022-2023.
6. IEEE International Conference on Image Processing (ICIP), 2022-2023.
7. IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), 2022-2023.

8. International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.
9. IEEE International Symposium on Biomedical Imaging (ISBI), 2023.

Challenge Organizer:

1. "ATLAS: A Tumor and Liver Automatic Segmentation", in MICCAI 2023.
2. "STAGE: Structural-Functional Transition in Glaucoma Assessment", in MICCAI 2023.
3. "GOALS: Glaucoma Oct Analysis and Layer Segmentation Challenge", in MICCAI 2022.
4. "GAMMA: Glaucoma Grading from Multi-Modality Images Challenge", in MICCAI 2021.
5. "REFUGE2: 2nd Retinal Fundus Glaucoma Challenge", in MICCAI 2020.
6. "ADAM: Automatic Detection challenge on Age-related Macular degeneration", in ISBI 2019.
7. "AGE: Angle closure Glaucoma Evaluation Challenge", with MICCAI 2019.
8. "PALM: PathologicAL Myopia detection from retinal images", in ISBI 2019.
9. "REFUGE: Retinal Fundus Glaucoma Challenge", in MICCAI 2018.

Workshop Chair:

1. Workshop on Ophthalmic Medical Image Analysis (OMIA) with MICCAI, 2019 - present.
2. Workshop on Resource-Efficient Medical Image Analysis (REMIA) with MICCAI, 2022 - present.

Academic Awards

1. **2023, Best Paper Award** of Distributed, Collaborative and Federated Learning (DeCAF) Workshop in MICCAI.
2. **2022, Best Paper Award** of Ophthalmic Medical Image Analysis (OMIA) Workshop in MICCAI.
3. **2022, Best Paper Runner-up Award** of Resource-Efficient Medical Image Analysis (REMIA) Workshop in MICCAI.
4. **2021, Best Paper Award** in IEEE International Conference on Multimedia & Expo (ICME).
5. **2021-2023, Top 2% Scientists Worldwide**, by Stanford University.
6. **2021, Finalist of the Young Scientist Publication Impact Award** in MICCAI.
7. **2021, Most Influential Paper (Application) Award** in Jittor Developer Conference.
8. **2020-2022, IEEE TMI Distinguished Reviewer Gold Level.**
9. **2021, Outstanding Reviewer** in CVPR.
10. **2014, China Computer Federation (CCF) Outstanding Dissertation Nomination.**

Grants

1. **Principal Investigator** (2022-2025): "Robust and Trustworthy AI system for Multi-modality Healthcare", A*STAR SERC Central Research Fund, S\$900,000.
2. **Principal Investigator** (2022-2024): "Efficient and Robust Federated (Un)Learning for Utilizing Large Model on Resource-limited Clients", A*STAR Career Development Fund, S\$110,000.
3. **Principal Investigator** (2022-2023): "Trustworthy and Data-efficient Multi-modality Learning for Healthcare", A*STAR AI3 HTPO Seed Fund, S\$250,000.
4. **Co-PI** (2023-2025): "Development of Stable, Robust and Secure Intelligent Systems for Autonomous Vehicles", AI Singapore Grand Challenge in Robust AI Funding, S\$2,554,800.
5. **Co-PI** (2022-2025): "SmartRx: Safe Medication Management Platform Augmented by ARTificial Intelligence for Prescribers [Rx]", AI Singapore Tech Challenge Funding, S\$2,500,000.
6. **Co-PI** (2022-2025): "RAPIER - Radiology Pathology Information Exchange Resource", AI Singapore Tech Challenge Funding, S\$2,866,000.

Selected Publications

Journals:

1. Meng Wang, Tian Lin, Lianyu Wang, ..., and **Huazhu Fu**, "Uncertainty-inspired Open Set Learning for Retinal Anomaly Identification", **Nature Communications**, in press.
2. Alexandros Karargyris, Renato Umeton, ..., **Huazhu Fu**, ..., Spyridon Bakas, and Peter Mattson, "Federated Benchmarking of Medical Artificial Intelligence with MedPerf", **Nature Machine Intelligence**, Vol. 14, No. 1, pp. 115, 2023. DOI: 10.1038/s42256-023-00652-2

3. Yahui Long, Kok Siong Ang, ..., **Huazhu Fu**, ..., Longqi Liu, and Jinmiao Chen, "Spatially informed clustering, integration, and deconvolution of spatial transcriptomics with GraphST", *Nature Communications*, Vol. 14, No. 1, pp. 115, 2023. DOI: 10.1038/s41467-023-36796-3
4. Zongbo Han, Changqing Zhang, **Huazhu Fu**, and Joey Tianyi Zhou, "Trusted Multi-View Classification with Dynamic Evidential Fusion", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 45, No. 2, pp. 2551-2566, 2023. DOI: 10.1109/TPAMI.2022.3171983 *"ESI Highly Cited Paper"*.
5. Tao Zhou, **Huazhu Fu**, Chen Gong, Ling Shao, Fatih Porikli, Haibin Ling, and Jianbing Shen, "Consistency and Diversity induced Human Motion Segmentation", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 45, No. 1, pp. 197-210, 2023. DOI: 10.1109/TPAMI.2022.3147841 *"ESI Highly Cited Paper"*.
6. Peng Zheng, **Huazhu Fu**, Deng-Ping Fan, Qi Fan, Jie Qin, Yu-Wing Tai, Chi-Keung Tang, and Luc Van Gool, "GCoNet+: A Stronger Group Collaborative Co-Salient Object Detector", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 45, No. 9, pp. 10929-10946, 2023. DOI: 10.1109/TPAMI.2023.3264571
7. Chun-Mei Feng, Yunlu Yan, Shanshan Wang, Yong Xu, Ling Shao, and **Huazhu Fu**, "Specificity-Preserving Federated Learning for MR Image Reconstruction", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 42, No. 7, pp. 2010-2021, 2023. DOI: 10.1109/TMI.2022.3202106
8. Along He, Kai Wang, Tao Li, Chengkun Du, Shuang Xia, and **Huazhu Fu**, "H2Former: An Efficient Hierarchical Hybrid Transformer for Medical Image Segmentation", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 42, No. 9, pp. 2763-2775, 2023. DOI: 10.1109/TMI.2023.3264513
9. Erjian Guo, **Huazhu Fu**, Luping Zhou, and Dong Xu, "Bridging Synthetic and Real Images: a Transferable and Multiple Consistency aided Fundus Image Enhancement Framework", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 42, No. 8, pp. 2189-2199, 2023. DOI: 10.1109/TMI.2023.3247783
10. Chun-Mei Feng, Yunlu Yan, Geng Chen, Yong Xu, Ying Hu, Ling Shao, and **Huazhu Fu**, "Multimodal Transformer for Accelerated MR Imaging", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 42, No. 10, pp. 2804-2816, 2023. DOI: 10.1109/TMI.2022.3180228
11. Jiangbo Shi, Lufei Tang, Zeyu Gao, Yang Li, Chunbao Wang, Tieliang Gong, Chen Li, and **Huazhu Fu**, "MG-Trans: Multi-scale Graph Transformer with Information Bottleneck for Whole Slide Image Classification", *IEEE Transactions on Medical Imaging (TMI)*, 2023, in press.
12. Jicheng Liu, Hui Liu, **Huazhu Fu**, Yu Ye, Kun Chen, Yu Lu, Jianbo Mao, Ronald X. Xu, and Mingzhai Sun, "Edge-guided Contrastive Adaptation Network for Arteriovenous Nicking Classification Using Synthetic Data", *IEEE Transactions on Medical Imaging (TMI)*, 2023, in press.
13. Heng Li, Ziqin Lin, Zhongxi Qiu, Zinan Li, Ke Niu, Na Guo, **Huazhu Fu**, Yan Hu, and Jiang Liu, "Enhancing and Adapting in the Clinic: Source-free Unsupervised Domain Adaptation for Medical Image Enhancement", *IEEE Transactions on Medical Imaging (TMI)*, 2023, in press.
14. Fahad Shamshad, Salman Khan, Syed Waqas Zamir, Muhammad Haris Khan, Munawar Hayat, Fahad Shahbaz Khan, and **Huazhu Fu**, "Transformers in medical imaging: A survey", *Medical Image Analysis (MedIA)*, Vol. 88, 102802, 2023. DOI: 10.1016/j.media.2023.102802 *"ESI Highly Cited Paper"*.
15. Heng Li, Haofeng Liu, **Huazhu Fu**, Yanwu Xu, Hai Shu, Ke Niu, Yan Huf, and Jiang Liu, "A Generic Fundus Image Enhancement Network Boosted by Frequency Self-supervised Representation Learning", *Medical Image Analysis (MedIA)*, Vol. 90, 102945, 2023. DOI: 10.1016/j.media.2023.102945
16. Yangqin Feng, Zizhou Wang, Xinxing Xu, Yan Wang, **Huazhu Fu**, Shaohua Li, Liangli Zhen, Xiaofeng Lei, Yingnan Cui, Jordan Sim Zheng Ting, Yonghan Ting, Joey Tianyi Zhou, Yong Liu, Rick Siow Mong Goh, and Cher Heng Tan, "Contrastive Domain Adaptation with Consistency Match for Automated Pneumonia Diagnosis", *Medical Image Analysis (MedIA)*, Vol. 83, 102664, 2023. DOI: 10.1016/j.media.2022.102664
17. Zhiqiang Tao, Jun Li, **Huazhu Fu**, Yu Kong, and Yun Fu, "From Ensemble Clustering to Subspace Clustering: Cluster Structure Encoding", *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, Vol. 34, No. 5, pp. 2670-2681, 2023. DOI: 10.1109/TNNLS.2021.3107354
18. Kahou Tam, Li Li, Bo Han, Chengzhong Xu, and **Huazhu Fu**, "Federated Noisy Client Learning", *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2023, in press.
19. Runmin Cong, Ning Yang, Chongyi Li, **Huazhu Fu**, Yao Zhao, Qingming Huang, and Sam Kwong, "Global-and-Local Collaborative Learning for Co-Salient Object Detection", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 53, No. 3, pp. 1920-1931, 2023. DOI: 10.1109/TCYB.2022.3169431 *"ESI Highly Cited Paper"*.
20. Liansheng Wang, Jiacheng Wang, Lei Zhu, **Huazhu Fu**, Ping Li, Gary Cheng, Zhipeng Feng, Shuo Li, and Pheng-Ann Heng, "Dual Multiscale Mean Teacher Network for Semi-supervised Infection Segmentation in Chest CT Volume for COVID-19", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 53, No. 10, pp. 6363-6375, 2023. DOI: 10.1109/TCYB.2022.3223528

21. Chun-Mei Feng, Yunlu Yan, Kai Yu, Yong Xu, **Huazhu Fu**, Jian Yang, and Ling Shao, "Exploring Separable Attention for Multi-Contrast MR Image Super-Resolution", *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2023, in press.
22. Tao Zhou, Yi Zhou, Kelei He, Chen Gong, Jian Yang, **Huazhu Fu**, and Dinggang Shen, "Cross-level Feature Aggregation Network for Polyp Segmentation", *Pattern Recognition (PR)*, Vol. 140, 109555, 2023. DOI: 10.1016/j.patcog.2023.109555
23. Jingjing Chen, Linhai Zhuo, Zhipeng Wei, Hao Zhang, **Huazhu Fu**, and Yu-Gang Jiang, "Knowledge Driven Weights Estimation for Large-scale Few-shot Image Recognition", *Pattern Recognition (PR)*, Vol. 142, 109668, 2023. DOI: 10.1016/j.patcog.2023.109668
24. Bo Peng, Mingliang Zhang, Jianjun Lei, **Huazhu Fu**, Haifeng Shen, and Qingmin Huang, "RGB-D Human Matting: A Real-World Benchmark Dataset and A Baseline Method", *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, Vol. 33, No. 8, pp. 4041-4053, 2023. DOI: 10.1109/TCSVT.2023.3238580
25. Qing Li, Changqing Zhang, Qinghua Hu, Pengfei Zhu, **Huazhu Fu**, and Lei Chen, "Stabilizing Multispectral Pedestrian Detection with Evidential Hybrid Fusion", *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, in press, 2023.
26. Qing Li, Changqing Zhang, Qinghua Hu, **Huazhu Fu**, and Pengfei Zhu, "Confidence-aware Fusion using Dempster-Shafer Theory for Multispectral Pedestrian Detection", *IEEE Transactions on Multimedia (TMM)*, Vol. 25, pp. 3420-3431, 2023. DOI: 10.1109/TMM.2022.3160589
27. Tao Lei, Rui Sun, Xiaogang Du, **Huazhu Fu**, Changqing Zhang, and Asoke K. Nandi, "SGU-Net: Shape-Guided Ultralight Network for Abdominal Image Segmentation", *IEEE Journal of Biomedical and Health Informatics (JBHI)*, Vol. 27, No. 3, pp. 1431-1442, 2023. DOI: 10.1109/JBHI.2023.3238183
28. Hengyi Yang, Tao Zhou, Yi Zhou, Yizhe Zhang, and **Huazhu Fu**, "Flexible Fusion Network for Multi-Modal Brain Tumor Segmentation", *IEEE Journal of Biomedical and Health Informatics (JBHI)*, Vol. 27, No. 7, pp. 3349-3359, 2023. DOI: 10.1109/JBHI.2023.3271808
29. Junting Zhao, Zhaohu Xing, Zhihao Chen, Liang Wan, Tong Han, **Huazhu Fu**, and Lei Zhu, "Uncertainty-aware Multi-dimensional Mutual Learning for Brain and Brain Tumor Segmentation", *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 2Vol. 27, No. 9, pp. 4362-4372, 2023. DOI: 10.1109/JBHI.2023.3274255
30. Mengjie Guo, Risa Higashita, Chen Lin, Lingxi Hu, Wan Chen, Fei Li, Gilda Wing Ki Lai, Anwell Nguyen, Rei Sakata, Keiichiro Okamoto, Bo Tang, Yanwu Xu, **Huazhu Fu**, Fei Gao, Makoto Aihara, Xiulan Zhang, Jin Yuan, Shan Lin, Christopher Kai-shun Leung, and Jiang Liu, "Crystalline lens nuclear age prediction as a new biomarker of nucleus degeneration", *British Journal of Ophthalmology (BJO)*, 2023, in press. DOI: 10.1136/bjo-2023-323176
31. Jianyang Xie, Quanyong Yi, Yufei Wu, Yalin Zheng, Yonghuai Liu, Antonella Macerollo, **Huazhu Fu**, Yanwu Xu, Jiong Zhang, Ardhendu Behera, Chenlei Fan, Alejandro F Frangi, Jiang Liu, Qinkang Lu, Hong Qi, and Yitian Zhao, "Deep segmentation of OCTA for evaluation and association of changes of retinal microvasculature with Alzheimer's disease and mild cognitive impairment", *British Journal of Ophthalmology (BJO)*, 2023, in press. DOI: 10.1136/bjo-2022-321399
32. Wenguan Wang, Qiuxia Lai, **Huazhu Fu**, Jianbing Shen, Haibin Ling, and Ruigang Yang, "Salient Object Detection in the Deep Learning Era: An In-Depth Survey", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 44, No. 6, pp. 3239-3259, 2022. DOI: 10.1109/TPAMI.2021.3051099 *"ESI Highly Cited Paper"*.
33. Changqing Zhang, Yajie Cui, Zongbo Han, Joey Tianyi Zhou, **Huazhu Fu**, and Qinghua Hu, "Deep Partial Multi-View Learning", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 44, No. 5, pp. 2402-2415, 2022. DOI: 10.1109/TPAMI.2020.3037734 *"ESI Highly Cited Paper"*.
34. Deng-Ping Fan, Tengteng Li, Zheng Lin, Ge-Peng Ji, Dingwen Zhang, Ming-Ming Cheng, **Huazhu Fu**, and Jianbing Shen, "Re-thinking Co-Salient Object Detection", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 44, No. 8, pp. 4339-4354, 2022. DOI: 10.1109/TPAMI.2021.3060412 *"ESI Highly Cited Paper"*.
35. Kang Zhou, Jing Li, Weixin Luo, Zhengxin Li, Jianlong Yang, **Huazhu Fu**, Jun Cheng, Jiang Liu, and Shenghua Gao, "Proxy-bridged Image Reconstruction Network for Anomaly Detection in Medical Images", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 41, No. 3, pp. 582-594, 2022. DOI: 10.1109/TMI.2021.3118223
36. Jinkui Hao, Fei Li, Huaying Hao, **Huazhu Fu**, Yanwu Xu, Risa Higashita, Xiulan Zhang, Jiang Liu, and Yitian Zhao, "Hybrid Variation-aware Network for Angle-closure Assessment in AS-OCT", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 41, No. 2, pp. 254-265, 2022. DOI: 10.1109/TMI.2021.3110602
37. Heng Li, Haofeng Liu, Yan Hu, **Huazhu Fu**, Yitian Zhao, Hanpei Miao, and Jiang Liu, "An Annotation-free Restoration Network for Cataractous Fundus Images", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 41, No. 7, pp. 1699-1710, 2022. DOI: 10.1109/TMI.2022.3147854

38. Along He, Kai Wang, Tao Li, Wang Bo, Hong Kang and **Huazhu Fu**, "Progressive Multi-scale Consistent Network for Multi-class Fundus Lesion Segmentation", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 41, No. 11, pp. 3146-3157, 2022. DOI: 10.1109/TMI.2022.3177803
39. Huihui Fang, Fei Li, **Huazhu Fu**, Xu Sun, and *et.al.*, "ADAM Challenge: Detecting Age-related Macular Degeneration from Fundus Images", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 41, No. 10, pp. 2828-2847, 2022. DOI: 10.1109/TMI.2022.3172773
40. Xiaoqing Zhang, Zunjie Xiao, **Huazhu Fu**, Yan Hu, Jin Yuan, Yanwu Xu, Risa Higashita, and Jiang Liu, "Attention to region: Region-based integration-and-recalibration networks for nuclear cataract classification using AS-OCT images", *Medical Image Analysis (MedIA)*, Vol. 80, 102499, 2022. DOI: 10.1016/j.media.2022.102499
41. Changqing Zhang, Yu Geng, Zongbo Han, Yeqing Liu, **Huazhu Fu**, and Qinghua Hu, "Autoencoder in Autoencoder Networks", *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2022, in press.
42. Xiaoqiang Wang, Lei Zhu, Siliang Tang, **Huazhu Fu**, Ping Li, Fei Wu, Yi Yang, and Yueting Zhuang, "Boosting RGB-D Saliency Detection by Leveraging Unlabeled RGB Images", *IEEE Transactions on Image Processing (TIP)*, Vol. 31, pp. 1107-1119, 2022. DOI: 10.1109/TIP.2021.3139232
43. Junbing Li, Changqing Zhang, Joey Tianyi Zhou, **Huazhu Fu**, Shuyin Xia and Qinghua Hu, "Deep-LIFT: Deep Label Specific Feature Learning for Image Annotation", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 52, No. 8, pp. 7732-7741, 2022. DOI: 10.1109/TCYB.2021.3049630 *"ESI Highly Cited Paper"*.
44. Jixiang Gao, Jingjing Chen, **Huazhu Fu**, and Yu-gang Jiang, "Dynamic Mixup for Multi-Label Long-Tailed Food Ingredient Recognition", *IEEE Transactions on Multimedia (TMM)*, 2022, in press. DOI: 10.1109/TMM.2022.3181789
45. Ziyi Shen, **Huazhu Fu**, Jianbing Shen, and Ling Shao, "Modeling and Enhancing Low-quality Retinal Fundus Images", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 40, No. 3, pp. 996-1006, 2021. DOI: 10.1109/TMI.2020.3043495
46. Yuhui Ma, Huaying Hao, Jianyang Xie, **Huazhu Fu**, Jiong Zhang, Jianlong Yang, Zhen Wang, Jiang Liu, Yalin Zheng, and Yitian Zhao, "ROSE: A Retinal OCT-Angiography Vessel Segmentation Dataset and New Model", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 40, No. 3, pp. 928-939, 2021. DOI: 10.1109/TMI.2020.3042802 *"ESI Highly Cited Paper"*.
47. Along He, Tao Li, Ning Li, Kai Wang, and **Huazhu Fu**, "CABNet: Category Attention Block for Imbalanced Diabetic Retinopathy Grading", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 40, No. 1, pp. 143-153, 2021. DOI: 10.1109/TMI.2020.3023463 *"ESI Highly Cited Paper"*.
48. Yi Zhou, Tianfei Zhou, Tao Zhou, **Huazhu Fu**, and Ling Shao, "Contrast-Attentive Thoracic Disease Recognition with Dual-Weighting Graph Reasoning", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 40, No. 4, pp. 1196-1206, 2021. DOI: 10.1109/TMI.2021.3049498
49. Yuhui Ma, Jiang Liu, Yonghuai Liu, **Huazhu Fu**, Yan Hu, Jun Cheng, Hong Qi, Yufei Wu, Jiong Zhang, and Yitian Zhao, "Structure and Illumination Constrained GAN for Medical Image Enhancement", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 40, No. 12, pp. 3955-3967, 2021. DOI: 10.1109/TMI.2021.3101937
50. Tao Li, Wang Bo, Chunyu Hu, Hong Kang, Hanruo Liu, Kai Wang, and **Huazhu Fu**, "Applications of Deep Learning in Fundus Images: A Review", *Medical Image Analysis (MedIA)*, Vol. 69, pp. 101971, 2021. DOI: 10.1016/j.media.2021.101971 *"ESI Highly Cited Paper"*.
51. Cheng Xue, Lei Zhu, **Huazhu Fu**, Xiaowei Hu, Xiaomeng Li, Hai Zhang, and Pheng-Ann Heng, "Global Guidance Network for Breast Lesion Segmentation in Ultrasound Images", *Medical Image Analysis (MedIA)*, Vol. 70, pp. 101989, 2021. DOI: 10.1016/j.media.2021.101989
52. Jiansheng Fang, **Huazhu Fu**, Jiang Liu, "Deep Triplet Hashing Network for Case-based Medical Image Retrieval", *Medical Image Analysis (MedIA)*, Vol. 69, pp. 101981, 2021. DOI: 10.1016/j.media.2021.101981
53. Chun-Mei Feng, Zhanyuan Yang, **Huazhu Fu**, Yong Xu, Jian Yang, and Ling Shao, "DONet: Dual-Octave Network for Fast MR Image Reconstruction", *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2021, in press. DOI: 10.1109/TNNLS.2021.3090303
54. Chongyi Li, Runmin Cong, Sam Kwong, Junhui Hou, **Huazhu Fu**, Guopu Zhu, Dingwen Zhang, and Qingming Huang, "ASIF-Net: Attention Steered Interweave Fusion Network for RGB-D Salient Object Detection", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 51, No. 1, pp. 88-100, 2021. DOI: 10.1109/TCYB.2020.2969255 *"ESI Highly Cited Paper"*.
55. Jiansheng Fang, **Huazhu Fu**, Dan Zeng, Xiao Yan, Yuguang Yan, and Jiang Liu, "Combating Ambiguity for Hash-code Learning in Medical Instance Retrieval", *IEEE Journal of Biomedical and Health Informatics (JBHI)*, Vol. 25, No. 10, pp. 3943-3954, 2021. DOI: 10.1109/JBHI.2021.3082531

56. Natalia Porporato, Tin A. Tun, Mani Baskaran, Damon WK. Wong, Rahat Husain, **Huazhu Fu**, Rehana Sultana, Shamira A Perera, Leopold Schmetterer, and Tin Aung, "Towards 'Automated Gonioscopy': A Deep Learning Algorithm for 360° Angle Assessment by Swept-Source Optical Coherence Tomography", *British Journal of Ophthalmology (BJO)*, 12 April 2021. DOI:10.1136/bjophthalmol-2020-318275
57. Changqing Zhang*, **Huazhu Fu***, Qinghua Hu, Xiaochun Cao, Yuan Xie, Dacheng Tao, and Dong Xu, "Generalized Latent Multi-view Subspace Clustering", *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Vol. 42, No. 1, pp. 86-99, 2020. DOI: 10.1109/TPAMI.2018.2877660 (*co-first author) *"ESI Highly Cited Paper"*.
58. Changqing Zhang, **Huazhu Fu**, Jing Wang, Qinghua Hu, Xiaochun Cao, Wen Li, "Tensorized Multi-View Subspace Representation Learning", *International Journal of Computer Vision (IJCV)*, Vol. 128, No. 8-9, pp. 2344-2361, 2020. DOI: 10.1007/s11263-020-01307-0
59. Tao Zhou, **Huazhu Fu**, Jianbing Shen, Geng Chen, Ling Shao, "Hi-Net: Hybrid-fusion Network for Multi-modal MR Image Synthesis", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 39, No. 9, pp. 2772-2781, 2020. DOI: 10.1109/TMI.2020.2975344
60. Tianyang Zhang, Jun Cheng, **Huazhu Fu**, Zaiwang Gu, Yuting Xiao, Kang Zhou, Shenghua Gao, Rui Zheng, and Jiang Liu, "Noise Adaptation Generative Adversarial Network for Medical Image Analysis", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 39, No. 4, pp. 1149-1159, 2020. DOI: 10.1109/TMI.2019.2944488
61. Deng-Ping Fan, Tao Zhou, Ge-Peng Ji, Yi Zhou, Geng Chen, **Huazhu Fu**, Jianbing Shen, and Ling Shao, "Inf-Net: Automatic COVID-19 Lung Infection Segmentation from CT Images", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 39, No. 8, pp. 2626-2637, 2020. DOI: 10.1109/TMI.2020.2996645 *"ESI Highly Cited Paper"*.
62. Chuan Wang, **Huazhu Fu**, Liang Yang, and Xiaochun Cao, "Text Co-detection in Multi-view Scene", *IEEE Transactions on Image Processing (TIP)*, Vol. 29, No. 1, pp. 4627-4642, 2020. DOI: 10.1109/TIP.2020.2973511
63. **Huazhu Fu**, Fei Li, and *et.al.*, "AGE Challenge: Angle Closure Glaucoma Evaluation in Anterior Segment Optical Coherence Tomography", *Medical Image Analysis (MedIA)*, Vol. 66, pp. 101798, 2020.
64. José Ignacio Orlando, **Huazhu Fu**, and *et.al.*, "REFUGE Challenge: A Unified Framework for Evaluating Automated Methods for Glaucoma Assessment from Fundus Photographs", *Medical Image Analysis (MedIA)*, Vol. 59, pp. 101570, 2020. DOI: 10.1016/j.media.2019.101570 *"ESI Highly Cited Paper"*.
65. Lei Mou, Yitian Zhao, **Huazhu Fu**, Yonghuai Liu, Jun Cheng, Yalin Zheng, Pan Su, Jianlong Yang, Li Chen, Alejandro F Frangi, Masahiro Akiba, Jiang Liu, "CS²-Net: Deep Learning Segmentation of Curvilinear Structures in Medical Imaging", *Medical Image Analysis (MedIA)*, Vol. 67, pp. 101874, 2020. DOI: 10.1016/j.media.2020.101874 *"ESI Highly Cited Paper"*.
66. **Huazhu Fu**, Yanwu Xu, Stephen Lin, Damon Wing Kee Wong, Mani Baskaran, Meenakshi Mahesh, Tin Aung, and Jiang Liu, "Angle-Closure Detection in Anterior Segment OCT Based on Multilevel Deep Network", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 50, No. 7, pp. 3358-3366, 2020. DOI: 10.1109/TCYB.2019.2897162
67. Runmin Cong, Jianjun Lei, **Huazhu Fu**, Junhui Hou, Qingming Huang, Sam Kwong, "Going from RGB to RGBD Saliency: A Depth-guided Transformation Model", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 50, No. 8, pp. 3627-3639, 2020. DOI: 10.1109/TCYB.2019.2932005 *"ESI Highly Cited Paper"*.
68. Changqing Zhang, Ziwei Yu, **Huazhu Fu**, Pengfei Zhu, Lei Chen, Qinghua Hu, "Hybrid Noise-Oriented Multilabel Learning", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 50, No. 6, pp. 2837-2850, 2020. DOI: 10.1109/TCYB.2019.2894985 *"ESI Highly Cited Paper"*.
69. Bo Peng, Jianjun Lei, **Huazhu Fu**, Ling Shao, Qingming Huang, "A Recursive Constrained Framework for Unsupervised Video Action Clustering", *IEEE Transactions on Industrial Informatics (TII)*, Vol. 16, No. 1, pp. 555-565, 2020. DOI: 10.1109/TII.2019.2937514
70. Yuming Jiang, Lixin Duan, Jun Cheng, Zaiwang Gu, Hu Xia, **Huazhu Fu**, Changsheng Li, Jiang Liu, "JointRCNN: A Region-based Convolutional Neural Network for Optic Disc and Cup Segmentation", *IEEE Transactions on Biomedical Engineering (TBME)*, Vol. 67, No. 2, pp. 1558-2531, 2020. DOI: 10.1109/TBME.2019.2913211
71. Chongyi Li, Chunle Guo, Jichang Guo, Ping Han, **Huazhu Fu**, Runmin Cong, "PDR-Net: Perception-Inspired Single Image Dehazing Network with Refinement", *IEEE Transactions on Multimedia (TMM)*, Vol. 22, No. 3, pp. 704-716, 2020. DOI: 10.1109/TMM.2019.2933334
72. Xuelin Qian, **Huazhu Fu**, Weiya Shi, Tao Chen, Yanwei Fu, Fei Shan, and Xiangyang Xue, "M³Lung-Sys: A Deep Learning System for Multi-Class Lung Pneumonia Screening from CT Imaging", *IEEE Journal of Biomedical and Health Informatics (JBHI)*, Vol. 24, No. 12, pp. 3539-3550, 2020. DOI: 10.1109/JBHI.2020.3030853
73. Bo Peng, Jianjun Lei, **Huazhu Fu**, Changqing Zhang, Tat-Seng Chua, and Xuelong Li, "Unsupervised Video Action Clustering via Motion-Scene Interaction Constraint", *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, Vol. 30, No. 1, pp. 131-144, 2020. DOI: 10.1109/TCSVT.2018.2889514
74. **Huazhu Fu**, Fei Li, Yanwu Xu, Jingan Liao, Jian Xiong, Jianbing Shen, Jiang Liu, Xiulan Zhang, "A retrospective comparison of deep learning to manual annotations for optic disc and optic cup segmentation in fundus photos",

- Translational Vision Science & Technology (TVST)*, Vol. 9, pp. 33, 2020. DOI: 10.1167/tvst.9.2.33
75. **Huazhu Fu**, Mani Baskaran, Yanwu Xu, Stephen Lin, Damon Wing Kee Wong, Jiang Liu, Tin A. Tun, Meenakshi Mahesh, Shamira A. Perera, Tin Aung, "A Deep Learning System for Automated Angle-Closure Detection in Anterior Segment Optical Coherence Tomography Images", *American Journal of Ophthalmology (AJO)*, Vol. 203, pp. 37-45, 2019. DOI: 10.1016/j.ajo.2019.02.028
 76. Zaiwang Gu, Jun Cheng, **Huazhu Fu**, Kang Zhou, Huaying Hao, Yitian Zhao, Tianyang Zhang, Shenghua Gao, Jiang Liu, "CE-Net: Context Encoder Network for 2D Medical Image Segmentation", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 38, No. 10, pp. 2281-2292, 2019. DOI: 10.1109/TMI.2019.2903562 *"ESI Highly Cited Paper"*,
 77. Runmin Cong, Jianjun Lei, **Huazhu Fu**, Fatih Porikli, Qingming Huang, Chunping Hou, "Video Saliency Detection via Sparsity-based Reconstruction and Propagation", *IEEE Transactions on Image Processing (TIP)*, Vol. 28, No. 10, pp. 4819-4831, 2019. DOI: 10.1109/TIP.2019.2910377
 78. Zhiqiang Tao, Hongfu Liu, **Huazhu Fu**, Yun Fu, "Multi-View Saliency-Guided Clustering for Image Cosegmentation", *IEEE Transactions on Image Processing (TIP)*, Vol. 28, No. 9, pp. 4634-4645, 2019. DOI: 10.1109/TIP.2019.2913555
 79. Chunle Guo, Chongyi Li, Jichang Guo, Runmin Cong, **Huazhu Fu**, Ping Han, "Hierarchical Features Driven Residual Learning for Depth Map Super-Resolution", *IEEE Transactions on Image Processing (TIP)*, Vol. 28, No. 5, pp. 2545-2557, 2019. DOI: 10.1109/TIP.2018.2887029
 80. Runmin Cong, Jianjun Lei, **Huazhu Fu**, Weisi Lin, Qingming Huang, Xiaochun Cao, Chunping Hou, "An Iterative Co-saliency Detection Framework for RGBD Images", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 49, No. 1, pp. 233-246, 2019. DOI: 10.1109/TCYB.2017.2771488
 81. Jianjun Lei, Lijie Niu, **Huazhu Fu**, Bo Peng, Qingming Huang, and Chunping Hou, "Person Re-Identification by Semantic Region Representation and Topology Constraint", *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, Vol. 29, No. 8, pp. 2453-2466, 2019. DOI: 10.1109/TCSVT.2018.2866260
 82. Runmin Cong, Jianjun Lei, **Huazhu Fu**, Ming-Ming Cheng, Weisi Lin, Qingming Huang, "Review of Visual Saliency Detection with Comprehensive Information", *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, Vol. 29, No. 10, pp. 2941-2959, 2019. DOI: 10.1109/TCSVT.2018.2870832 *"ESI Highly Cited Paper"*.
 83. Runmin Cong, Jianjun Lei, **Huazhu Fu**, Qingming Huang, Xiaochun Cao, Nam Ling, "HSCS: Hierarchical Sparsity Based Co-saliency Detection for RGBD Images", *IEEE Transactions on Multimedia (TMM)*, Vol. 21, No. 7, pp. 1660-1671, 2019. DOI: 10.1109/TMM.2018.2884481
 84. Vivien C.H. Yip, Hon Tym Wong, Vernon K.Y. Yong, Boon Ang Lim, Owen K. Hee, Jun Cheng, **Huazhu Fu**, Chingwei Lim, Elton L.T. Tay, Roselyn G. Loo-Valdez, Hwei Yee Teo, Angela Lim PH, Leonard W.L. Yip, "Optical Coherence Tomography Angiography of Optic Disc and Macula Vessel Density in Glaucoma and Healthy Eyes", *Journal of Glaucoma (JOG)*, Vol. 28, No. 1, pp. 80-87, 2019. DOI: 10.1167/iovs.15-18944
 85. **Huazhu Fu**, Jun Cheng, Yanwu Xu, Changqing Zhang, Damon Wing Kee Wong, Jiang Liu, Xiaochun Cao, "Disc-aware Ensemble Network for Glaucoma Screening from Fundus Image", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 37, No. 11, pp. 2493-2501, 2018. DOI: 10.1109/TMI.2018.2837012 *"ESI Highly Cited Paper"*.
 86. **Huazhu Fu**, Jun Cheng, Yanwu Xu, Damon Wing Kee Wong, Jiang Liu, Xiaochun Cao, "Joint Optic Disc and Cup Segmentation Based on Multi-label Deep Network and Polar Transformation", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 37, No. 7, pp. 1597-1605, 2018. DOI: 10.1109/TMI.2018.2791488 *"ESI Highly Cited Paper"*,
 87. Jun Cheng, Zhengguo Li, Zaiwang Gu, **Huazhu Fu**, Damon Wing Kee Wong, Jiang Liu, "Structure-preserving Guided Retinal Image Filtering and Its Application for Optic Disc Analysis", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 37, No. 11, pp. 2536-2546, 2018. DOI: 10.1109/TMI.2018.2838550
 88. Runmin Cong, Jianjun Lei, **Huazhu Fu**, Qingming Huang, Xiaochun Cao, Chunping Hou, "Co-saliency Detection for RGBD Images Based on Multi-constraint Feature Matching and Cross Label Propagation", *IEEE Transactions on Image Processing (TIP)*, Vol. 27, No. 2, pp. 568-579, 2018. DOI: 10.1109/TIP.2017.2763819
 89. Hongyuan Zhu, Romain Vial, Shijian Lu, Xi Peng, **Huazhu Fu**, Yonghong Tian, Xianbin Cao, "YouTube: Searching Action Proposal via Recurrent and Static Regression Networks", *IEEE Transactions on Image Processing (TIP)*, Vol. 27, No. 6, pp. 2609-2622, 2018. DOI: 10.1109/TIP.2018.2806279 *"A*STAR Research Highlight Paper"*.
 90. Dingwen Zhang, **Huazhu Fu**, Junwei Han, Ali Borji, Xuelong Li, "A Review of Co-saliency Detection Algorithms: Fundamentals, Applications, and Challenges", *ACM Transactions on Intelligent Systems and Technology (TIST)*, Vol. 9, No. 4, pp. 1-31, 2018. DOI: 10.1145/3158674 *"ESI Highly Cited Paper"*.
 91. **Huazhu Fu**, Yanwu Xu, Stephen Lin, Xiaoqin Zhang, Damon Wing Kee Wong, Jiang Liu, Alejandro F. Frangi, Mani Baskaran, Tin Aung, "Segmentation and Quantification for Angle-Closure Glaucoma Assessment in Anterior Segment OCT", *IEEE Transactions on Medical Imaging (TMI)*, Vol. 36, No. 9, pp. 1930-1938, 2017. DOI: 10.1109/TMI.2017.2703147 *"A*STAR Research Highlight Paper"*.

92. **Huazhu Fu**, Dong Xu, Stephen Lin, "Object-based Multiple Foreground Segmentation in RGBD Video", *IEEE Transactions on Image Processing (TIP)*, Vol. 26, No. 3, pp. 1418-1427, 2017. DOI: 10.1109/TIP.2017.2651369
93. Changqing Zhang, **Huazhu Fu**, Qinghua Hu, Pengfei Zhu, Xiaochun Cao, "Flexible Multi-view Dimensionality co-Reduction", *IEEE Transactions on Image Processing (TIP)*, Vol. 26, No. 2, pp. 648-659, 2017. DOI: 10.1109/TIP.2016.2627806
94. Xiaochun Cao, Changqing Zhang, **Huazhu Fu**, Xiaojie Guo, Qi Tian, "Saliency-aware Nonparametric Foreground Annotation based on Weakly Labeled Data", *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, Vol. 27, No. 6, pp. 1253-1265, 2016. DOI: 10.1109/TNNLS.2015.2488637
95. **Huazhu Fu**, Dong Xu, Bao Zhang, Stephen Lin, "Object-based Multiple Foreground Video Co-segmentation via Multi-state Selection Graph", *IEEE Transactions on Image Processing (TIP)*, Vol. 24, No. 11, pp. 3415-3424, 2015. DOI: 10.1109/TIP.2015.2442915
96. **Huazhu Fu**, Dong Xu, Stephen Lin, Damon Wing Kee Wong, Jiang Liu, "Automatic Optic Disc Detection in OCT Slices via Low-Rank Reconstruction", *IEEE Transactions on Biomedical Engineering (TBME)*, Vol. 62, No. 4, pp. 1151-1158, 2015. DOI: 10.1109/TBME.2014.2375184
97. Xiaochun Cao, Changqing Zhang, Chengju Zhou, **Huazhu Fu**, Hassan Foroosh, "Constrained Multi-View Video Face Clustering", *IEEE Transactions on Image Processing (TIP)*, Vol. 24, No. 11, pp. 4381-4393, 2015. DOI: 10.1109/TIP.2015.2463223
98. **Huazhu Fu**, Xiaochun Cao, Zhuowen Tu, Dongdai Lin, "Symmetry Constraint for Foreground Extraction", *IEEE Transactions on Cybernetics (TCyb)*, Vol. 44, No. 5, pp. 644-654, 2014. DOI: 10.1109/TCYB.2013.2264051
99. **Huazhu Fu**, Xiaochun Cao, Dai Tang, Yahong Han, Dong Xu, "Regularity Preserved Superpixels and Supervoxels", *IEEE Transactions on Multimedia (TMM)*, Vol. 16, No. 4, pp. 1165-1175, 2014.
100. Xiaochun Cao, Zhiqiang Tao, Bao Zhang, **Huazhu Fu**, Wei Feng, "Self-adaptively Weighted Co-saliency Detection via Rank Constraint", *IEEE Transactions on Image Processing (TIP)*, Vol. 23, No. 9, pp. 4175-4186, 2014. DOI: 10.1109/TIP.2014.2332399
101. **Huazhu Fu**, Xiaochun Cao, Zhuowen Tu, "Cluster-based Co-saliency Detection", *IEEE Transactions on Image Processing (TIP)*, Vol. 22, No. 10, pp. 3766-3778, 2013. DOI: 10.1109/TIP.2013.2260166 **"ESI Highly Cited Paper"**.
102. **Huazhu Fu**, Xiaochun Cao, "Forgery Authentication in Extreme Wide-angle Lens Using Distortion Cue and Fake Saliency Map", *IEEE Transactions on Information Forensics and Security (TIFS)*, Vol. 7, No. 4, pp. 1301-1314, 2012. DOI: 10.1109/TIFS.2012.2195492

Conferences:

1. Lianyu Wang, Meng Wang, Daoqiang Zhang, and **Huazhu Fu**, "Model Barrier: A Compact Un-Transferable Isolation Domain for Model Intellectual Property Protection", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.
2. Chun-Mei Feng, Bangjun Li, Xinxing Xu, Yong Liu, **Huazhu Fu**, and Wangmeng Zuo, "Learning Federated Visual Prompt in Null Space for MRI Reconstruction", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023.
3. Qingyang Zhang, Haitao Wu, Changqing Zhang, Qinghua Hu, **Huazhu Fu**, Joey Tianyi Zhou, and Xi Peng, "Provable Dynamic Fusion for Low-Quality Multimodal Data", in *International Conference on Machine Learning (ICML)*, 2023.
4. Huan Ma, Qingyang Zhang, Changqing Zhang, Bingzhe Wu, **Huazhu Fu**, Joey Tianyi Zhou, and Qinghua Hu, "Calibrating Multimodal Learning", in *International Conference on Machine Learning (ICML)*, 2023. (**Oral**, ~2.3%)
5. Jiawei Wu, Changqing Zhang, Zuoyong Li, **Huazhu Fu**, Xi Peng, and Joey Tianyi Zhou, "dugMatting: Decomposed-Uncertainty-Guided Matting", in *International Conference on Machine Learning (ICML)*, 2023.
6. Ke Zou, Tian Lin, Xuedong Yuan, Haoyu Chen, Xiaojing Shen, Meng Wang, and **Huazhu Fu**, "Reliable Multi-modality Eye Disease Screening via Mixture of Student's t Distributions", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
7. Kai Ren, Ke Zou, Xianjie Liu, Yidi Chen, Xuedong Yuan, Xiaojing Shen, Meng Wang, and **Huazhu Fu**, "Uncertainty-informed Mutual Learning for Joint Medical Image Classification and Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
8. Zhihao Chen, Yang Zhou, Anh Tran, Juntong Zhao, Liang Wan, Gideon Ooi, Lionel Cheng, Choon Hua Thng, Xinxing Xu, Yong Liu, and **Huazhu Fu**, "Medical Phrase Grounding with Region-Phrase Context Contrastive Alignment", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
9. Meng Wang, Lianyu Wang, Xinxing Xu, Ke Zou, Yiming Qian, Rick Goh, Yong Liu, and **Huazhu Fu**, "Federated

- Uncertainty-Aware Aggregation for Fundus Diabetic Retinopathy Staging", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
10. Yiming Qian, Liangzhi Li, **Huazhu Fu**, Meng Wang, Xinxing Xu, Qingsheng Peng, Yih Chung Tham, Chingyu Cheng, Yong Liu, and Rick Goh, "Category-independent Visual Explanation for Medical Deep Network Understanding", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 11. Junhao Lin, Qian Dai, Lei Zhu, **Huazhu Fu**, Qiong Wang, Weibin Li, Wenhao Rao, Xiaoyang Huang, and Liansheng Wang, "Shifting More Attention to Breast Lesion Segmentation in Ultrasound Videos", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023. (*Oral*)
 12. Tao Chen, Lei Mou, Dan Zhang, Mengting Liu, Xiayu Xu, **Huazhu Fu**, Yitian Zhao, and Jiong Zhang, "RBGNet: Reliable Boundary-Guided Segmentation of Choroidal Neovascularization", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 13. Heng Li, Haojin Li, Wei Zhao, **Huazhu Fu**, Xiuyun Su, Yan Hu, and Jiang Liu, "Frequency-mixed Single-source Domain Generalization for Medical Image Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 14. Sanqian Li, Risa Higashita, **Huazhu Fu**, Heng Li, Jingxuan Niu, and Jiang Liu, "Content Preserving Diffusion Model for Unsupervised AS-OCT image Despeckling", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 15. Yanyu Xu, Menghan Zhou, Yangqin Feng, Xinxing Xu, **Huazhu Fu**, Rick Goh, and Yong Liu, "Minimal-supervised Medical Image Segmentation via Vector Quantization Memory", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 16. Yijun Yang, **Huazhu Fu**, Angelica Aviles-Rivero, Carola-Bibiane Schönlieb, and Lei Zhu, "DiffMIC: Dual-Guidance Diffusion Network for Medical Image Classification", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 17. Luoying Hao, Yan Hu, Wenjun Lin, Qun Wang, Heng Li, **Huazhu Fu**, Jinming Duan, and Jiang Liu, "ACT-Net: Anchor-context Action Detection in Surgery Videos", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023. (*Oral*)
 18. Jiaqi Zhang, Yan Hu, Xiaojuan Qi, Ting Meng, Lihui Wang, **Huazhu Fu**, Mingming Yang, and Jiang Liu, "Polar Eyeball Shape Net for 3D Posterior Ocular Shape Representation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 19. Shouyue Liu, Jinkui Hao, Yanwu Xu, **Huazhu Fu**, Xinyu Guo, Jiong Zhang, Yalin Zheng, Yonghuai Liu, Jiang Liu, and Yitian Zhao, "Polar-Net: A Clinical-Friendly Model for Alzheimer's Disease Detection in OCTA Images", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 20. Yinglin Zhang, Ruiling Xi, **Huazhu Fu**, Dave Towey, Ruibin Bai, Risa Higashita, and Jiang Liu, "Elongated Physiological Structure Segmentation via Spatial and Scale Uncertainty-aware Network", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 21. Chao Qin, Jiale Cao, **Huazhu Fu**, Rao Anwer, and Fahad Shahbaz, "A Spatial-Temporal Deformable Attention based Framework for Breast Lesion Detection in Videos", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2023.
 22. Marawan Elbatel, Hualiang Wang, Robert Martí, **Huazhu Fu**, and Xiaomeng Li, "Federated Model Aggregation via Self-Supervised Priors for Highly Imbalanced Medical Image Classification", *Distributed, Collaborative and Federated Learning (DeCAF) workshop at MICCAI*, 2023. **"Best Paper Award of DeCAF 2023."**
 23. Bolian Li, Zongbo Han, Haining Li, **Huazhu Fu**, and Changqing Zhang, "Trustworthy Long-Tailed Classification", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
 24. Ruijun Gao, Qing Guo, Felix Juefei-Xu, Hongkai Yu, **Huazhu Fu**, Wei Feng, Yang Liu, and Song Wang, "Can You Spot the Chameleon? Adversarially Camouflaging Images from Co-Salient Object Detection", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
 25. Liang Gao, **Huazhu Fu**, Li Li, Yingwen Chen, Ming Xu, and Cheng-Zhong Xu, "FedDC: Federated Learning with Non-IID Data via Local Drift Decoupling and Correction", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
 26. Xiaoxiao Liang, Yiqun Lin, **Huazhu Fu**, Lei Zhu, and Xiaomeng Li, "RSCFed: Random Sampling Consensus Federated Semi-supervised Learning", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
 27. Ye Liu, Liang Wan, **Huazhu Fu**, Jing Qin, and Lei Zhu, "Phase-based Memory Network for Video Dehazing", in *ACM International Conference on Multimedia (ACM MM)*, 2022.
 28. Shuai Wang, Lei Zhu, **Huazhu Fu**, Jing Qin, Carola-Bibiane Schönlieb, Wei Feng, and Song Wang, "Rethinking

- Video Rain Streak Removal: A New Synthesis Model and A Deraining Network with Video Rain Prior", in *European Conference on Computer Vision (ECCV)*, 2022.
29. Heng Li, Haofeng Liu, **Huazhu Fu**, Hai Shu, Yitian Zhao, Xiaoling Luo, Yan Hu, and Jiang Liu, "Structure-consistent Restoration Network for Cataract Fundus Image Enhancement", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 30. Zhi Lin, Junhao Lin, Lei Zhu, **Huazhu Fu**, Liansheng Wang, and Jing Qin, "A New Dataset and A Baseline Model for Breast Lesion Detection in Ultrasound Videos", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 31. Xingyue Wang, Heng Li, Zunjie Xiao, **Huazhu Fu**, Yitian Zhao, Richu Jin, Shuting Zhang, William Robert Kwapong, Ziyi Zhang, Hanpei Miao, and Jiang Liu, "Screening of Dementia on OCTA Images via Multi-projection Consistency and Complementarity", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 32. Ke Zou, Xuedong Yuan, Xiaojing Shen, and **Huazhu Fu**, "TBraTS: Trusted Brain Tumor Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 33. Haofeng Liu, Heng Li, **Huazhu Fu**, Ruoxiu Xiao, Yunshu Gao, Yan Hu, and Jiang Liu, "Degradation-invariant Enhancement of Fundus Images via Pyramid Constraint Network", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 34. Yi Zhou, Shaochen Bai, Tao Zhou, Yu Zhang, and **Huazhu Fu**, "Delving into Local Features for Open-Set Domain Adaptation in Fundus Image Analysis", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 35. Yanmiao Bai, Jinkui Hao, **Huazhu Fu**, Yan Hu, Xinting Ge, Jiang Liu, Yitian Zhao, and Jiong Zhang, "Unsupervised Lesion-Aware Transfer Learning for Diabetic Retinopathy Grading in Ultra-Wide-Field Fundus Photography", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 36. Jiayu Chen, Lei Mou, Shaodong Ma, **Huazhu Fu**, Lijun Guo, Yalin Zheng, Yitian Zhao, and Jiong Zhang, "NerveFormer: A Cross-Sample Aggregation Network for Corneal Nerve Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 37. Wenjun Lin, Yan Hu, Luoying Luo, Dan Zhou, Mingming Yang, **Huazhu Fu**, Chee-Kong Chui, and Jiang Liu, "Instrument-tissue Interaction Quintuple Detection in Surgery Videos", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2022.
 38. Jinmian Cai, Zheng Wang, **Huazhu Fu**, Jingjing Chen, and Yu-Gang Jiang, "Data-free Network Debiasing for Long-Tailed Visual Recognition", in *IEEE International Conference on Multimedia & Expo (ICME)*, 2022.
 39. Xiaofeng Lei, Shaohua Li, Xinxing Xu, **Huazhu Fu**, Yong Liu, Yih-Chung Tham, Yangqin Feng, Mingrui Tan, Yanyu Xu, Jocelyn Hui Lin Goh, Rick Siow Mong Goh, Ching-Yu Cheng, "Localizing Anatomical Landmarks in Ocular Images Using Zoom-In Attentive Networks", *Ophthalmic Medical Image Analysis (OMIA) workshop at MICCAI*, 2022. **"Best Paper Award of OMIA 2022."**
 40. Yanyu Xu, Xinxing Xu, **Huazhu Fu**, Meng Wang, Rick Siow Mong Goh, and Yong Liu, "Facing Annotation Redundancy: OCT Layer Segmentation with only 10 Annotated Pixels per Layer", in *Resource-Efficient Medical Image Analysis (REMIA) workshop at MICCAI*, 2022. **"Best Paper Runner-up Award of REMIA 2022."**
 41. Zongbo Han, Changqing Zhang, **Huazhu Fu**, and Joey Tianyi Zhou, "Trusted Multi-View Classification", in *International Conference on Learning Representations (ICLR)*, 2021.
 42. Huan Ma, Zongbo Han, Changqing Zhang, **Huazhu Fu**, Joey Tianyi Zhou, Qinghua Hu, "Trustworthy Multimodal Regression with Mixture of Normal-inverse Gamma Distributions", in *Thirty-fifth Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2021.
 43. Qi Fan, Deng-Ping Fan, **Huazhu Fu**, Chi-Keung Tang, Ling Shao, and Yu-Wing Tai, "Group Collaborative Learning for Co-Salient Object Detection", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.
 44. Zhihao Chen, Liang Wan, Lei Zhu, Jia Shen, **Huazhu Fu**, Wennan Liu, and Jing Qin, "Triple-cooperative Video Shadow Detection", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.
 45. Tao Zhou, **Huazhu Fu**, Geng Chen, Yi Zhou, Deng-Ping Fan, and Ling Shao, "Specificity-preserving RGB-D Saliency Detection", in *International Conference on Computer Vision (ICCV)*, 2021.
 46. Yi Zhou, Lei Huang, Tao Zhou, **Huazhu Fu**, and Ling Shao, "Visual-Textual Attentive Semantic Consistency for Medical Report Generation", in *International Conference on Computer Vision (ICCV)*, 2021.
 47. Xing Zhang, Zuxuan Wu, ZeJia Weng, **Huazhu Fu**, Jingjing Chen, Yu-Gang Jiang, and Larry Davis, "VideoLT: Large-scale Long-tailed Video Recognition", in *International Conference on Computer Vision (ICCV)*, 2021.
 48. Yujun Zhang, Lei Zhu, Wei Feng, **Huazhu Fu**, Mingqian Wang, Qingxia Li, Cheng Li, and Song Wang, "VIL-100: A New Dataset and A Baseline Model for Video Instance Lane Detection", in *International Conference on Computer*

- Vision (*ICCV*), 2021.
49. Chun-Mei Feng, **Huazhu Fu**, Shuhao Yuan, and Yong Xu, "Multi-Contrast MRI Super-Resolution via a Multi-Stage Integration Network", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2021.
 50. Chun-Mei Feng, Yunlu Yan, **Huazhu Fu**, Li Chen, and Yong Xu, "Task Transformer Network for Joint MRI Reconstruction and Super-Resolution", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2021.
 51. Yinglin Zhang, Risa Higashita, **Huazhu Fu**, Yanwu Xu, Yang Zhang, Haofeng Liu, Jian Zhang, and Jiang Liu, "A Multi-Branch Hybrid Transformer Network for Corneal Endothelial Cell Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2021.
 52. Ge-Peng Ji, Yu-Cheng Chou, Deng-Ping Fan, Geng Chen, **Huazhu Fu**, Debesh Jha, and Ling Shao, "Progressively Normalized Self-Attention Network for Video Polyp Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2021.
 53. Shaohua Li, Xiuchao Sui, Jie Fu, **Huazhu Fu**, Xiangde Luo, Yangqin Feng, Xinxing Xu, Yong Liu, Daniel Ting, and Rick Goh, "Few-Shot Domain Adaptation with Polymorphic Transformers", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2021.
 54. Zhibin Wan, Changqing Zhang, Yu Geng, **Huazhu Fu**, Xi Peng, Pengfei Zhu, and Qinghua Hu, "Cross-View Equivariant Auto-Encoder", in *IEEE International Conference on Multimedia & Expo (ICME)*, 2021. **"Best Paper Award of ICME 2021."**
 55. Yupeng Cheng, Xingxing Wei, **Huazhu Fu**, Shang-Wei Lin, and Weisi Lin, "Defense for adversarial videos by Self-adaptive JPEG Compression and Optical Texture", in *ACM Multimedia Asia*, 2021.
 56. Tao Zhou, **Huazhu Fu**, Chen Gong, Jianbing Shen, Ling Shao, and Fatih Porikli, "Multi-mutual Consistency Induced Transfer Subspace Learning for Human Motion Segmentation", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
 57. Deng-Ping Fan, Zheng Lin, Ge-Peng Ji, Dingwen Zhang, **Huazhu Fu**, and Ming-Ming Cheng, "Taking a Deeper Look at the Co-salient Object Detection", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
 58. Chongyi Li, **Huazhu Fu**, Runmin Cong, Zechao Li, and Qianqian Xu, "Nul-Go: Recursive Non-local Encoder-Decoder Network for Retinal Image Non-uniform Illumination Removal", in *ACM International Conference on Multimedia (ACM MM)*, 2020.
 59. Jinkui Hao, **Huazhu Fu**, Yanwu Xu, Yan Hu, Fei Li, Xiulan Zhang, Jiang Liu, and Yitian Zhao, "Reconstruction and Quantification of 3D Iris Surface for Angle-Closure Glaucoma Detection in Anterior Segment OCT", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2020.
 60. Tao Zhou, **Huazhu Fu**, Yu Zhang, Changqing Zhang, Xiankai Lu, Jianbing Shen, and Ling Shao, "M²Net: Multi-modal Multi-channel Network for Overall Survival Time Prediction of Brain Tumor Patients", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2020.
 61. Huaying Hao, **Huazhu Fu**, Yanwu Xu, Jianlong Yang, Fei Li, Xiulan Zhang, Jiang Liu, and Yitian Zhao, "Open-Appositional-Synechial Anterior Chamber Angle Classification in AS-OCT Sequences", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2020.
 62. Deng-Ping Fan, Ge-Peng Ji, Tao Zhou, Geng Chen, **Huazhu Fu**, Jianbing Shen, and Ling Shao, "PraNet: Parallel Reverse Attention Network for Polyp Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2020. **"Most Influential Paper (Application) Award in Jittor Developer Conference 2021."**
 63. Shihao Zhang, **Huazhu Fu**, Yanwu Xu, Yanxia Liu, and Mingkui Tan, "Structure-Texture Decomposition Network: Reducing Texture Influence Improves Accuracy", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2020.
 64. Lei Zhu, Rongzhen Chen, **Huazhu Fu**, Cong Xie, Liansheng Wang, Liang Wan, and Pheng-Ann Heng, "A Second-order Subregion Pooling Network for Breast Ultrasound Lesion Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2020.
 65. Zhi Tu, Shenghua Gao, Kang Zhou, Xianing Chen, **Huazhu Fu**, Zaiwang Gu, Jun Cheng, Zehao Yu, and Jiang Liu, "SUNet: A Lesion Regularized Model for Simultaneous Diabetic Retinopathy and Diabetic Macular Edema Grading", in *International Symposium on Biomedical Imaging (ISBI)*, 2020.
 66. Kang Zhou, Shenghua Gao, Jun Cheng, Zaiwang Gu, **Huazhu Fu**, Zhi Tu, Jianlong Yang, Yitian Zhao, and Jiang Liu, "Sparse-GAN: Sparsity-constrained Generative Adversarial Network for Retinal OCT Image Anomaly Detection", in *International Symposium on Biomedical Imaging (ISBI)*, 2020.
 67. Changqing Zhang, Zongbo Han, Yajie Cui, **Huazhu Fu**, Joey Tianyi Zhou, and Qinghua Hu, "CPM-Nets: Cross

- Partial Multi-View Networks", in *Thirty-Third Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2019. (*Spotlight*, ~2.4%)
68. Changqing Zhang, Yeqing Liu, and **Huazhu Fu**, " AE^2 -Nets: Autoencoder in Autoencoder Networks", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019. (*Oral*, ~5.6%)
 69. Ruihuang Li, Changqing Zhang, **Huazhu Fu**, Xi Peng, Joey Tianyi Zhou, and Qinghua Hu, "Reciprocal Multi-Layer Subspace Learning for Multi-View Clustering", in *IEEE International Conference in Computer Vision (ICCV)*, 2019.
 70. Jimmy Lee, Peng Liu, Jun Cheng, and **Huazhu Fu**, "A Deep Step Pattern Representation for Multimodal Retinal Image Registration", in *IEEE International Conference in Computer Vision (ICCV)*, 2019.
 71. **Huazhu Fu**, Boyang Wang, Jianbing Shen, Shanshan Cui, Yanwu Xu, Jiang Liu, and Ling Shao, "Evaluation of Retinal Image Quality Assessment Networks in Different Color-spaces", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.
 72. Zhijie Zhang, **Huazhu Fu**, Hang Dai, Jianbing Shen, Yanwei Pang, and Ling Shao, "ET-Net: A Generic Edge-Attention Guidance Network for Medical Image Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.
 73. Tianyang Zhang, **Huazhu Fu**, Yitian Zhao, Jun Cheng, Mengjie Guo, Zaiwang Gu, Bing Yang, Yuting Xiao, Shenghua Gao, and Jiang Liu, "SkrGAN: Sketching-rendering Unconditional Generative Adversarial Networks for Medical Image Synthesis", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.
 74. Shihao Zhang, **Huazhu Fu**, Yuguang Yan, Yubing Zhang, Qingyao Wu, Ming Yang, Mingkui Tan, and Yanwu Xu, "Attention Guided Network for Retinal Image Segmentation", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.
 75. Lixi Deng, Sheng Tang, **Huazhu Fu**, Bin Wang, and Yongdong Zhang, "Spatiotemporal Breast Mass Detection Network (MD-Net) in 4D DCE-MRI Images", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.
 76. Tao Zhou, Mingxia Liu, **Huazhu Fu**, Jun Wang, Jianbing Shen, Ling Shao, and Dinggang Shen, "Deep Multi-modal Latent Representation Learning for Automated Dementia Diagnosis", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.
 77. Tao Zhou, Kim Han Thung, Yu Zhang, **Huazhu Fu**, Jianbing Shen, Dinggang Shen, and Ling Shao, "Inter-modality Dependence Induced Data Recovery for MCI Conversion Prediction", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2019.
 78. Huaying Hao, Yitian Zhao, **Huazhu Fu**, Qiaoling Shang, Zhili Chen, Fei Li, Xiulan Zhang, and Jiang Liu, "Anterior Chamber Angles Classification in Anterior Segment OCT Images via Multi-Scale Regions Convolutional Neural Networks", in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2019.
 79. **Huazhu Fu**, Yanwu Xu, Stephen Lin, Damon Wing Kee Wong, Baskaran Mani, Meenakshi Mahesh, Tin Aung, and Jiang Liu, "Multi-Context Deep Network for Angle-Closure Glaucoma Screening in Anterior Segment OCT", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2018, pp. 356-363.
 80. Liang Yang, Yuanfang Guo, Di Jin, **Huazhu Fu**, and Xiaochun Cao, "3-in-1 Correlated Embedding via Adaptive Exploration of the Structure and Semantic Subspaces", in *International Joint Conference on Artificial Intelligence (IJCAI)*, 2018.
 81. Huiying Liu, Damon Wing Kee Wong, **Huazhu Fu**, Yanwu Xu, and Jiang Liu, "DeepAMD: Detect Early Age-Related Macular Degeneration by Applying Deep Learning in a Multiple Instance Learning Framework", in *Asian Conference on Computer Vision (ACCV)*, 2018.
 82. Yanwu Xu, Lixin Duan, **Huazhu Fu**, Zhuo Zhang, Wei Zhao, Tianyuan You, Tien Yin Wong, and Jiang Liu, "Ocular Disease Detection From Multiple Informatics Domains", in *International Symposium on Biomedical Imaging (ISBI)*, 2018.
 83. Yuming Jiang, Hu Xia, Yanwu Xu, Jun Cheng, **Huazhu Fu**, Lixin Duan, Zhigang Meng, and Jiang Liu, "Optic Disc and Cup Segmentation with Blood Vessel Removal from Fundus Images for Glaucoma Detection", in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2018.
 84. Changqing Zhang, Qinghua Hu, **Huazhu Fu**, Pengfei Zhu, and Xiaochun Cao, "Latent Multi-view Subspace Clustering", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017, pp. 4279-4287. (*Spotlight*, ~8%)
 85. Zhiqiang Tao, Hongfu Liu, **Huazhu Fu**, and Yun Fu, "Image Cosegmentation via Saliency-Guided Constraint Clustering with Cosine Similarity", in *AAAI Conference on Artificial Intelligence (AAAI)*, 2017, pp. 4285-4291.
 86. Jimmy Addison Lee, Mengdi Xu, Jun Cheng, **Huazhu Fu**, Damon Wing Kee Wong, and Nicolas Foin, "Extract-

- and-Match Geometric Corner and Step Pattern Approach for Registration of Fluoroscopic X-Ray Sequences", in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2017.
87. **Huazhu Fu**, Yanwu Xu, Stephen Lin, Damon Wing Kee Wong, and Jiang Liu, "DeepVessel: Retinal Vessel Segmentation via Deep Learning and Conditional Random Field", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2016, pp. 132-139. **"Finalist of the Young Scientist Publication Impact Award at MICCAI 2021."**
 88. Yanwu Xu, Lixin Duan, **Huazhu Fu**, Damon Wing Kee Wong, Baskaran Mani, Tin Aung, and Jiang Liu, "Axial Alignment for Anterior Segment Swept Source Optical Coherence Tomography via Robust Low-rank Tensor Recovery", in *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2016, 441-449.
 89. **Huazhu Fu**, Yanwu Xu, Damon Wing Kee Wong, and Jiang Liu, "Retinal Vessel Segmentation via Deep Learning Network and Fully-connected Conditional Random Fields", in *International Symposium on Biomedical Imaging (ISBI)*, 2016, pp. 698-701.
 90. **Huazhu Fu**, Yanwu Xu, Damon Wing Kee Wong, Jiang Liu, Mani Baskaran, Shamira A. Perera, and Tin Aung, "Automatic Anterior Chamber Angle Structure Segmentation in AS-OCT Image based on Label Transfer", in *IEEE Engineering in Medicine and Biology Society (EMBC)*, 2016, pp. 1288-1291.
 91. **Huazhu Fu**, Dong Xu, Stephen Lin, and Jiang Liu, "Object-based RGBD Image Co-segmentation with Mutex Constraint", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015, pp. 4428-4436.
 92. Xiaochun Cao, Changqing Zhang, **Huazhu Fu**, Si Liu, and Hua Zhang, "Diversity-induced Multi-view Subspace Clustering", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015, pp. 586-594.
 93. Changqing Zhang, **Huazhu Fu**, Si Liu, Guangcan Liu, and Xiaochun Cao, "Low-rank Tensor Constrained Multiview Subspace Clustering", in *IEEE International Conference on Computer Vision (ICCV)*, 2015, pp. 1582-1590.
 94. **Huazhu Fu**, Dong Xu, Bao Zhang, and Stephen Lin, "Object-based Multiple Foreground Video Co-segmentation", in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2014, pp. 3166-3173.
 95. Xiaochun Cao, Yupeng Cheng, Zhiqiang Tao, and **Huazhu Fu**, "Co-Saliency Detection via Base Reconstruction", in *ACM Multimedia (ACM MM)*, 2014, pp. 997-1000.

Patents

1. Medical image segmentation using an integrated edge guidance module and object segmentation network, 2019, No. [US] 10482603B1.
2. Embedded Vision Tracker and Method of tracking Sequential Double Color Beacons Array with an Extremely Wide-angle Lens, 2011, No. [WO] 2011047508A1.
3. The dividing method of symmetrical organ in medical image, 2015, No. [CN] 102663762B.
4. Embedded omnidirectional ball vision object detection and mobile monitoring system and method, 2010, No. [CN] 101561270B.
5. Calibration method of fish-eye lens imaging system applied to target detection, 2010, No. [CN] 101577002B.