2021-2022 Medical Vision Seminar

Week	Paper Title	Reporter
2021/6/30	1. (CVPR20) Structure Boundary Preserving Segmentation for Medical Image with Ambiguous Boundary 2. (CVPR21) DoDNet: Learning to segment multi-organ and tumors from multiple partially labeled datasets	Luyue Shi
	1. (CVPR20) Augmenting Colonoscopy using Extended and Directional CycleGAN for Lossy Image Translation 2. (CVPR21) Multi-institutional Collaborations for Improving Deep Learning-based Magnetic Resonance Image Reconstruction Using Federated Learning	Haoyu Chen
2021/7/7	1. (CVPR2021) XProtoNet: Diagnosis in Chest Radiography with Global and Local Explanations 2. (ISBI2021) Geometric Loss for Deep Multiple Sclerosis Lesion Segmentation	Lufei Gao
	1. (CVPR2021) DARCNN: Deomain Adaptive Region-based Convolutional Neural Network for Unsupervised Instance Segmentation in Biomedical Images 2. (ISBI2021) Towards Unbiased Covid-19 Lesion Localisation and Segmentation Via Weakly Supervised Learning	Jinyue Cai
2021/7/14	1. (CVPR2021) Learning Calibrated Medical Image Segmentation via Multi-Rater Agreement Modeling 2. (MICCAI2021) QUBIQ Challenge	Yicheng Jiang
	1. （CVPR2021）Group-Free 3D Object Detection via Transformers 2. （MICCAI2021）Medical Transformer: Gated Axial-Attention for Medical Image Segmentation	Congjie Ye
2021/7/21		Wentao Lei
	1. (CVPR2021) DiNTS: Differentiable Neural Network Topology Search for 3D Medical Image Segmentation	Wei Lou
2021/7/28	1. Disabling Backdoor and Identifying Poison Data by using Knowledge Distillation in Backdoor Attacks on Deep Neural Networks 2. Neural Attention Distillation: Erasing Backdoor Triggers from Deep Neural Networks	Rongjun Tang

2021/7/28	1. (CVPR2021) FedDG: Federated Domain Generalization on Medical Image Segmentation via Episodic Learning in Continuous Frequency Space 2. (ISBI2020)ASCNet: Adaptive-Scale Convolutional Neural Networks for Multi-Scale Feature Learning	Yujin Tang
2021/8/4	1. (NeurIPS2020) Is normalization indispensable for training deep neural network? 2. (ISBI2020) Class-Center Involved Triplet Loss for Skin Disease Classification on Imbalanced Data	Lei Liu
	1. (ISBI) WEAKLY SUPERVISED PROSTATE TMA CLASSIFICATION VIA GRAPH CONVOLUTIONAL NETWORKS 2. (ISBI2020) WEAKLY-SUPERVISED BRAIN TUMOR CLASSIFICATION WITH GLOBAL DIAGNOSIS LABEL	Wentao Lei
2021/8/11	1. (Arxiv 2021.06) Medical Transformer: Universal Brain Encoder for 3D MRI Analysis 2. (Arxiv 2021.04) Emerging Properties in Self-Supervised Vision Transformers	Congjie Ye
	1. (MICCAI2020) Meta Corrupted Pixels Mining for Medical Image Segmentation 2. (MICCAI2021) Distilling effective supervision for robust medical image segmentation with noisy labels	Luyue Shi
2021/8/18	1. (NIPS 2020) Contrastive learning of global and local features for medical image segmentation with limited annotations 2. (NIPS 2020) Bootstrap Your Own Latent - A New Approach to Self-Supervised Learning	Luoyao Kang
	调整到8月25号	Lufei Gao
2021/8/25	1. (CVPR2020) MMTM: Multimodal Transfer Module for CNN Fusion 2. (AAAI2021) SMIL: Multimodal Learning with Severely Missing Modality	Lufei Gao
	1. (ICLR2019) Uncertainty-guided Continual Learning with Bayesian Neural Networks 2. (PNAS2017) Overcoming catastrophic forgetting in neural networks.	Lei Liu

2021/9/1	1. (CVPR2020) FocalMix: Semi-Supervised Learning for 3D Medical Image Detection 2. (ICCV2017) Focal Loss for Dense Object Detection	Yicheng Jiang
	1. (NIPS2020) Rethinking Pre-training and Self-training 2. (CVPR2020) Deep Distance Transform for Tubular Structure Segmentation in CT Scans	Wei Lou
2021/9/8	1. (NIPS2018) Loss Surfaces, Mode Connectivity, and Fast Ensembling of DNNs 2. (ICLR2017) SNAPSHOT ENSEMBLES: TRAIN 1, GET M FOR FREE	Wentao Lei
	1. (CVPR 2020) Multi-scale domain-adversarial multiple-instance CNN for cancer subtype classification with unannotated histopathological images	Rongjun Tang
2021/9/15	1. (CVPR2020)What Makes Training Multi-modal Classification Networks Hard? 2. (CVPR2019)Data augmentation using learned transformations for one-shot medical image segmentation	Lufei Gao
	1. (CVPR2019) Noise2Void - Learning Denoising From Single Noisy Images 2. (ECCV2020) Unpaired Learning of Deep Image Denoising	Luyue Shi
2021/9/22	1. (TNNLS 2020) A survey on explainable artificial intelligence (xai): Toward medical xai 2. (CVPR 2017) Mdnet: A semantically and visually interpretable medical image diagnosis network	Lei Liu
	1. (Arxiv 21.03) Swin transformer: Hierarchical vision transformer using shifted windows 2. (Arxiv 21.09) nnFormer: Interleaved Transformer for Volumetric Segmentation	Yujin Tang
2021/9/29	1. (CVPR2021) 3D Graph Anatomy Geometry-Integrated Network for Pancreatic Mass Segmentation, Diagnosis, and Quantitative Patient Management 2. (Miccai2020) Voxel2Mesh: 3D Mesh Model Generation from Volumetric Data	Yicheng Jiang
	1. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation	Yaoluo Kang
2021/10/06	国庆节	

2021/10/13	1. (CVPR2020) FocalMix: Semi-Supervised Learning for 3D Medical Image Detection 2. (CVPR2021) Instant-Teaching: An End-to-End Semi-Supervised Object Detection Framework	Congjie Ye
	1. (MICCAI2021) CoTr: Efficiently Bridging CNN and Transformer for 3D Medical Image Segmentation 2. (MICCAI2021) MIL-VT: Multiple Instance Learning Enhanced Vision Transformer for Fundus Image Classification	Wei Lou
2021/10/20		Wentao Lei
	1. Batch Normalization Increases Adversarial Vulnerability and Decreases Adversarial Transferability: A Non-Robust Feature Perspective	Rongjun Tang
2021/10/27		
2021/11/3	1. (MICCAI2019) Uncertainty-Aware Self-ensembling Model for Semi-supervised 3D Left Atrium Segmentation 2. (MICCAI2020) Shape-Aware Semi-supervised 3D Semantic Segmentation for Medical Images	Huansen Chen
	1. (CVPR2021) FSDR: Frequency Space Domain Randomization for Domain Generalization 2. (CVPR2021) A Fourier-based Framework for Domain Generalization	Luyue Shi
2021/11/10	1. (MICCAI 2021) Self-Supervised Longitudinal Neighbourhood Embedding 2. (MICCAI 2021) Contrastive Learning with Continuous Proxy Meta-Data for 3D MRI Classification	Luoyao Kang
	1. (MICCAI2021) Early Detection of Liver Fibrosis Using Graph Convolutional Networks. 2. (MICCAI2021) Focusing on Clinically Interpretable Features: Selective Attention Regularization for Liver Biopsy Image Classification	Lufei Gao
2021/11/17	CVPR_deadline	

2021/11/24	1. (TMI 2021.oct)A Unified Framework for Generalized Low-Shot Medical Image Segmentation with Scarce Data 2. (CVPR2019) RepMet: Representative-based metric learning for classification and one-shot object detection	Yicheng Jiang
	1. (CVPR2021)SetMargin Loss applied to Deep Keystroke Biometrics with Circle Packing Interpretation 2. (CVPR2021)Triplet Contrastive Learning for Brain Tumor Classification	Yiming Ouyang
2021/12/1	1. (MICCAI2021) TransFuse: Fusing Transformers and CNNs forMedical Image Segmentation 2. (ICCV2021) Fast Convergence of DETR with Spatially Modulated Co-Attention	Wei Lou
	1. (NIPS2021): FlexMatch: Boosting Semi-Supervised Learning with Curriculum Pseudo Labeling 2. (CVPR2020): FocalMix: Semi-Supervised Learning for 3D Medical Image Detection	Wentao Lei
2021/12/8	1. (NIPS2021) Adversarial Neuron Pruning Purifies Backdoored Deep Models	Rongjun Tang
	1. (MICCAI2021) Multi-compound Transformer for Accurate Biomedical Image Segmentation 2. (MICCAI2021) Spine-Transformers: Vertebra Detection and Localization in Arbitrary Field-of-View Spine CT with Transformers	Yujin Tang
2021/12/15	1. (ICLR2020) MUTUAL MEAN-TEACHING: PSEUDO LABEL REFINERY FOR UNSUPERVISED DOMAIN ADAPTATION ON PERSON REIDENTIFICATIO 2. (CVPR2021) CReST: A Class-Rebalancing Self-Training Framework for Imbalanced Semi-Supervised Learning	Huansen Chen
	1. (MICCAI 2021)Longitudinal Self-supervision to Disentangle Inter-patient Variability from Disease Progression 2. (TMI 2021)Dual Attention Multi-Instance Deep Learning for Alzheimer's Disease Diagnosis With Structural MRI	Luoyao Kang
2021/12/22	1. (NeurIPS2020)RANet: Region Attention Network for Semantic Segmentation 2. (CVPR2021)Learning to Recommend Frame for Interactive Video Object Segmentation in the Wild	Lei Liu

2022/12/29	1. (NIPS2021) Nagrani, A., Yang, S., Arnab, A., Jansen, A., Schmid, C., & Sun, C. (2021). Attention bottlenecks for multimodal fusion. Advances in Neural Information Processing Systems, 34.	Lufei Gao
	1. (MICCAI2021) Positional Contrastive Learning for Volumetric Medical Image Segmentation 2. (MICCAI2021) Semi-supervised Contrastive Learning for Label-efficient Medical Image Segmentation	Yiming Ouyang
2022/1/5		Congjie Ye
		Yicheng Jiang
2022/1/12		Wei Lou
		Zhuo Chen
2022/1/19		Wentao Lei
		Chenyu Liu
2022/1/26		Rongjun Tang
		Yujin Tang
2022/2/16		Huansen Chen
		Luyue Shi
2022/2/23		Luoyao Kang
		Lufei Gao
公开资料	https://github.com/cmwang-sribd-2020/cuhksz-medical-vision-seminar-2021-Journal-Club	