## 2021-2022 Medical Vision Seminar

Week	Paper Title	Reporter
	<ol> <li>(CVPR20) Structure Boundary Preserving Segmentation for Medical Image with Ambiguous Boundary</li> <li>(CVPR21) DoDNet: Learning to segment multi-organ and tumors from multiple partially labeled datasets</li> </ol>	Luyue Shi
2021/6/30	<ol> <li>(CVPR20) Augmenting Colonoscopy using Extended and Directional CycleGAN for Lossy Image Translation</li> <li>(CVPR21) Multi-institutional Collaborations for Improving Deep Learning-based Magnetic Resonance Image Reconstruction Using Federated Learning</li> </ol>	Haoyu Chen
2021/7/7	<ol> <li>(CVPR2021) XProtoNet: Diagnosis in Chest Radiography with Global and Local Explanations</li> <li>(ISBI2021) Geometric Loss for Deep Multiple Sclerosis Lesion Segmentation</li> </ol>	Lufei Gao
	<ol> <li>(CVPR2021) DARCNN: Deomain Adaptive Region-based Convolutional Neural Network for Unsupervised Instance Segmentation in Biomedical Images</li> <li>(ISBI2021) Towards Unbiased Covid-19 Lesion Localisation and Segmentation Via Weakly Supervised Learning</li> </ol>	Jinyue Cai
2021/7/14	<ol> <li>(CVPR2021) Learning Calibrated Medical Image Segmentation via Multi-Rater Agreement Modeling</li> <li>(MICCAI2021) QUBIQ Challenge</li> </ol>	Yicheng Jiang
	(CVPR2021) Group-Free 3D Object Detection via     Transformers     (MICCAI2021) Medical Transformer: Gated Axial- Attention for Medical Image Segmentation	Congjie Ye
2021/7/21		Wentao Lei
	(CVPR2021) DiNTS: Differentiable Neural Network     Topology Search for 3D Medical Image Segmentation	Wei Lou
2021/7/20	<ol> <li>Disabling Backdoor and Identifying Poison Data by using Knowledge Distillation in Backdoor Attacks on Deep Neural Networks</li> <li>Neural Attention Distillation: Erasing Backdoor Triggers from Deep Neural Networks</li> </ol>	Rongjun Tang

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

1. (CVPR2020) FocalMix: Semi-Supervised Learning for 3D Medical Image Detection   2. (ICCV2017) Focal Loss for Dense Object Detection   2. (ICCV2017) Focal Loss for Dense Object Detection   3. (IVPS2020) Rethinking Pre-training and Self-training   2. (CVPR2020) Deep Distance Transform for Tubular Structure Segmentation in CT Seans   3. (IVPS2018) Loss Surfaces, Mode Connectivity, and Fast Ensembling of DNNs   2. (ICLR2017) SNAPSHOT ENSEMBLES: TRAIN 1, GET M FOR FREE   1. (CVPR 2020) Multi-scale domain-adversarial multiple-instance CNN for cancer subtype classification with unannotated histopathological images   3. (CVPR2019) Math Makes Training Multi-modal Classification Networks Hard?   2. (CVPR2019) Data augmentation using learned transformations for one-shot medical image segmentation   4. (CVPR2019) Noise2Void - Learning Denoising From Single Noisy Images   2. (ECCV2020) Unpaired Learning of Deep Image Denoising   4. (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   4. (Arxiv 21.03) Swin transformer: Hierarchical vision transformer using shifted windows   2. (Arxiv 21.09) nnFormer: Interleaved Transformer for Volumetric Segmentation   2. (Miccai2020) Voxel2Mesh: 3D Mesh Model Generation from Volumetric Data   3. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation   4. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation   4. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation   4. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation   4. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation   4. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation   4. (Arxiv 21.06) Per-Pixel Classification   4. (Arxiv 21.06) Per-Pixel Classification   4. (Arxiv 21.06) Per-Pixel Classification   4			
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2021/9/8  Ensembling of DNNs 2. (ICLR2017) SNAPSHOT ENSEMBLES: TRAIN 1, GET M FOR FREE  1. (CVPR 2020) Multi-scale domain-adversarial multiple-instance CNN for cancer subtype classification with unannotated histopathological images  1. (CVPR2020)What Makes Training Multi-modal Classification Networks Hard? 2. (CVPR2019)Data augmentation using learned transformations for one-shot medical image segmentation  1. (CVPR2019) Noise2Void - Learning Denoising From Single Noisy Images 2. (ECCV2020) Unpaired Learning of Deep Image Denoising  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  1. (Arxiv 21.03) Swin transformer: Hierarchical vision transformer using shifted windows 2. (Arxiv 21.09) nnFormer: Interleaved Transformer for Volumetric Segmentation  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  1. (Arxiv 21.06) Per-Pixel Classification is Not All You Need for Semantic Segmentation		2. (CVPR2020) Deep Distance Transform for Tubular Structure	Wei Lou
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2021/10/06 国庆节			Yaoluo Kang
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	<ol> <li>(CVPR2020) FocalMix: Semi-Supervised Learning for 3D Medical Image Detection</li> <li>(CVPR2021) Instant-Teaching: An End-to-End Semi-Supervised Object Detection Framework</li> </ol>	Congjie Ye
2021/10/13	<ol> <li>(MICCAI2021) CoTr: Efficiently Bridging CNN and Transformer for 3D Medical Image Segmentation</li> <li>(MICCAI2021) MIL-VT: Multiple Instance Learning Enhanced Vision Transformer for Fundus Image Classification</li> </ol>	Wei Lou
		Wentao Lei
2021/10/20	Batch Normalization Increases Adversarial Vulnerability and Decreases Adversarial Transferability: A Non-Robust Feature Perspective	Rongjun Tang
2021/10/27		
	<ol> <li>(MICCAI2019) Uncertainty-Aware Self-ensembling Model for Semi-supervised 3D Left Atrium Segmentation</li> <li>(MICCAI2020) Shape-Aware Semi-supervised 3D Semantic Segmentation for Medical Images</li> </ol>	Huansen Chen
2021/11/3	<ol> <li>(CVPR2021) FSDR: Frequency Space Domain Randomization for Domain Generalization</li> <li>(CVPR2021) A Fourier-based Framework for Domain Generalization</li> </ol>	Luyue Shi
	<ol> <li>(MICCAI 2021) Self-Supervised Longitudinal Neighbourhood Embedding</li> <li>(MICCAI 2021) Contrastive Learning with Continuous Proxy Meta-Data for 3D MRI Classification</li> </ol>	Luoyao Kang
2021/11/10	<ol> <li>(MICCAI2021) Early Detection of Liver Fibrosis Using Graph Convolutional Networks.</li> <li>(MICCAI2021) Focusing on Clinically Interpretable Features: Selective Attention Regularization for Liver Biopsy Image Classification</li> </ol>	Lufei Gao
2021/11/17	CVPR_deadline	

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

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.  1. (MICCAI2021) Positional Contrastive Learning for Volumetric Medical Image Segmentation 2. (MICCAI2021) Semi-supervised Contrastive Learning for Label-efficient Medical Image Segmentation 3. (MICCAI2021) Intranofality Domain Adaptation Using Self Ensembling and Adversarial Training 3. (MICCAI2021) Semantic Consistent Unsupervised Domain Adaption for Cross-modality Medical Image Segmentayion 4. (MICCAI2021) Improving Pneumonia Localization via Cross-Attention on Medical Images and Reports 5. (MICCAI2021) Improving Pneumonia Localization via Cross-Attention on Medical Images and Reports 6. (AAAI2021) Semi-supervised Medical Image Segmentation through Dual-task Consistency 7. (CVPR2021) Every Annotation Counts: Multi-label Deep Supervision for Medical Image Segmentation 7. (CVPR2021) Every Annotation Counts: Multi-label Deep Supervision for Medical Image Segmentation 7. (PR2020) Deep Co-Training for Semi-Supervised Image Segmentation Counts: Multi-label Deep Supervision for Medical Image Segmentation 7. (PR2020) Deep Co-Training for Semi-Supervised Image Segmentation Chen Segmentation 7. (MICCAI2021) CrossViT: Cross-Attention Multi-Scale Vision Transformer for Image Classification 7. (MICCAI2021) Combining 3D Image and Tabular Data via the Dynamic Affiffifine Feature Map Transform 7. A Singular Value Perspective on Model Robustness 7. (MICCAI2021) RibSeg Dataset and Strong Point Cloud Baselines for Rib Segmentation from CT Seans 7. (MICCAI2021) Point-UNet: A Context-Aware Point-Based Neural Network for Volumetric Segmentation			
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		Baselines for Rib Segmentation from CT Scans 2. (MICCAI2021)Point-UNet: A Context-Aware Point-Based	Yujin Tang
	2022/2/16		Luoyao Kang

2022/2/10		Luyue Shi
2022/2/23		Congjie Ye
2022/2/23		Lufei Gao
公开资料	https://github.com/cmwang-sribd-2020/cuhksz-medical-vision- seminar-2021-Journal-Club	