

Session 2 Biomedical and Multimedia Information Processing: Technologies and Applications
 生物医学和多媒体信息处理：技术与应用

14:00–17:30, Saturday, **October 28**, 2023

Location: Room B1-15 of Great Hall / 会议中心 B1-15 会议室

Chair: Yong XIA, Northwestern Polytechnical University

Vice-Chair: Jinqiu SUN, Xinbo ZHAO, Northwestern Polytechnical University

Organizer: Image Analysis Committee of CSS; Northwestern Polytechnical University

	Title	Reporter	Chairs
14:00–14:40	AI-enabled PET Reconstruction and Analysis: Technologies and Clinical Applications	Prof. Dinggang SHEN , <i>Shanghai Tech University</i>	Prof. Yong XIA , <i>Northwestern Polytechnical University</i>
14:40–15:20	Terahertz Time-domain Imaging and Its Applications	Prof. Yaochun SHEN , <i>University of Liverpool</i>	
15:20–15:45	Tea Break		
15:45–16:00	Classification of Lung Tumor Histologic Growth Patterns in Whole Slide Images Using Semi-supervised Learning	Qixuan WANG , <i>China Academy of Information and Communications Technology</i>	Prof. Jianjun HUANG , <i>Shenzhen University</i>
16:00–16:15	Dual Branch Fusion of EEG and Eye Data for Driver Fatigue Detection	Ammad ul Islam , <i>Northwestern Polytechnical University</i>	
16:15–16:30	Clip4MSLD: Clip For Multi-Modal Skin Lesion Diagnosis	Ke WANG , <i>Beihang University</i>	
16:30–16:45	Multimodality Radiomics Model for Improving MR-guided Radiotherapy of Prostate Cancer	Wanrong YANG , <i>Shenzhen Institute of Advanced Technology, CAS</i>	
16:45–17:00	Improving the Learning Performance of Client's Local Distribution in Cyclic Federated Learning for Classification of Alzheimer's Disease	Bin LUO , <i>Shenzhen University</i>	
17:00–17:15	Research on Eye Tracking Method Based on Deep Learning	Xiaolin YE , <i>Northwestern Polytechnical University</i>	
17:15–17:30	A Network Lightweighting Method for Difficult Segmentation Task in 3D Medical Images	Zhixin GONG , <i>Shenzhen University</i>	

14:00–17:30, Sunday, **October 29**, 2023

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	Title	Reporter	Chairs
14:00–14:40	Photosensitive Chip Design for Event Camera and Intelligent Processing of Asynchronous Signals	Prof. Jinjian WU , <i>Xidian University</i>	Prof. Xinbo ZHAO , <i>Northwestern Polytechnical University</i>
15:00–15:20	TBD	TBD	
15:20–15:45	Tea Break		
15:45–16:00	Random Erasing Attention Network for Facial Expression Recognition	Jiixin ZHOU , <i>Northwestern Polytechnical University</i>	Prof. Tao ZHOU , <i>North Minzu University</i>
16:00–16:15	Visible and Infrared Object Tracking Based on Multimodal Hierarchical Relationship Modeling	Rui YAO , <i>Shenzhen Institute of Advanced Technology, CAS</i>	
16:15–16:30	Investigation into Remote Sensing Aircraft Classification Method via Fusion of Traditional Handcrafted Features and Deep Learning Features	Tianyuan TAN , <i>Northwestern Polytechnical University</i>	
16:30–16:45	CAFUNET: A Small Infrared Target Detection Method for Complex Backgrounds	Hairong SUN , <i>Shenzhen University</i>	
16:45–17:00	Feature Fusion Enhancement and Emotion Combination Concentration Assessment for Children’s Expression Recognition	Jiayi LIU , <i>Northwestern Polytechnical University</i>	
17:00–17:15	Stroke Lesion Segmentation Based on Multi–resolution Multi–dimensional and Two–stage Ensemble Learning	Shunbin LI , <i>Shenzhen University</i>	
17:15–17:30	Chronic Stroke Lesions Segmentation Based on Compound Loss Function and Transformer	Zhiyong GAO , <i>Shenzhen University</i>	