

## Parallel Sessions | 分会场报告

### Session 1 Workshop on Frontiers in Stereology and Image Analysis

#### 体视学与图像分析前沿技术青年论坛

09:00–17:00, Friday, **October 27**, 2023

**Location:** Room 2–9 (Second Floor) of Building 18/18 号楼 2–9 会议室

**Chair:** Liang LI, Tsinghua University

**Vice-Chair:** Zheng ZHANG, University of Science and Technology Beijing

Yi DING, State Key Laboratory of Advanced Power Transmission Technology

**Organizer:** The Youth Working Committee, Chinese Society for Stereology

	Title	Reporter	Chairs
09:00–09:50	On the Stereology: My Understanding	<b>Zhengwei YANG</b>   杨正伟 <i>North Sichuan Medical College</i>	<b>Yalan ZHANG</b> , <i>University of Science and Technology Beijing</i>
09:50–10:10	Application Technology of Graphene Modified Metal Matrix Composite Materials	<b>Yi DING</b>   丁一 <i>State Key Laboratory of Advanced Power Transmission Technology</i>	
10:10–10:30	Multifunctional Scanning Probe Microscopy for Measuring Mechanical and Electrical Properties of Low-Dimensional Materials	<b>Guangjie ZHANG</b>   张光杰 <i>National Center for Nanoscience and Technology</i>	
10:30–10:50	<b>Tea Break</b>		
10:50–11:10	Micro-scale Ultrafast Spectroscopy and the Applications	<b>Xinfeng LIU</b>   刘新风 <i>National Center for Nanoscience and Technology</i>	<b>Yi DING</b> , <i>State Key Laboratory of Advanced Power Transmission Technology</i>
11:10–11:30	Advancing Healthcare through Intelligent Simulation and Interaction Technology	<b>Xiaokun WANG</b>   王笑琨 <i>University of Science and Technology Beijing</i>	
11:30–11:50	Label Efficient Medical Image Segmentation	<b>Xiaoying TANG</b>   唐晓颖 <i>Southern University of Science and Technology</i>	
11:50–12:10	Cross-applications of Nanomaterials in the Field of Oral Anti-infectives	<b>Yuguang WANG</b>   王宇光 <i>Peking University School and Hospital of Stomatology</i>	

12:10–14:00	<b>Lunch at Dining Room of Building 18</b>		
14:00–14:20	Needle Free Delivery of Immunotherapeutic Antibodies	<b>Qian CHEN</b>   陈倩 <i>Soochow University</i>	<b>Xiaochun LAI</b> , <i>ShanghaiTech University</i>
14:20–14:40	Recent Advances in Deep Learning for Medical Imaging	<b>Yi ZHANG</b>   张意 <i>Sichuan University</i>	
14:40–15:00	Investigating Self – assembly of Biomimetic Polypeptoid using X-ray/Neutron Scattering	<b>Naisheng JIANG</b>   姜乃生 <i>University of Science and Technology Beijing</i>	
15:10–15:20	Artifact Reduction Methods for Photon Counting CT Imaging	<b>Xu JI</b>   季续 <i>Southeast University</i>	
15:20–15:40	<b>Tea Break</b>		
15:40–16:00	A Full Chain Model of Semiconductor Detectors and Its Application in Photon Counting CT Development	<b>Xiaochun LAI</b>   赖晓春 <i>Shanghai Tech University</i>	<b>Xu JI</b> , <i>Southeast University</i>
16:00–16:20	Deep Learning Based Low – dose CT Image Reconstruction: from Supervised Learning to Unsupervised Learning	<b>Ji HE</b>   何基, <i>Guangzhou Medical University</i>	
16:20–16:40	Calculation and Application of Excited State Electronic Structure of Multicomponent Titanium Alloys	<b>Cheng LIN</b>   林成 <i>Liaoning Shihua University</i>	
16:40–17:00	Anchor-Based Self-supervised Histopathology WSI Representation Learning for Computer – Aided Cancer Diagnosis	<b>Yushan ZHENG</b>   郑钰山 <i>Beihang University</i>	