

图像生成与处理的数学与统计方法研讨会
2025.09.28—2025.10.04
(Workshop on Mathematical and Statistical Methods for Image Generation and Processing)

2025 年 9 月 29 日，星期一
Monday, September 29, 2025

Time	Title	Speaker	Institution	Chair
07:30 - 09:00	早 餐 Breakfast			
09:00 - 09:20	会议开幕式与合影 Opening ceremony of the conference & Group photo session			
09:20 - 10:00	Model-data-driven hyperspectral compressive snapshot reconstruction methods	曾锦山 Jinshan Zeng	西安交通大学 Xi'an Jiaotong University	刘俊 Jun Liu
10:00 - 10:40	Operator learning and neural scaling laws	刘皓 Hao Liu	香港浸会大学 Hong Kong Baptist University	
10:40 - 10:50	茶 歇 Coffee break			
10:50 - 11:30	Image segmentation using Bayesian inference for convex variant Mumford-Shah variational model	文有为 Youwei Wen	湖南师范大学 Hunan Normal University	李宏伟 Hongwei Li
11:30 - 12:10	Distributed reconstruction from compressive measurements: nonconvexity and heterogeneity	孙怡帆 Yifan Sun	中国人民大学 Renmin University of China	
11:30 - 13:00	午 餐 Lunch			
14:30 - 16:30	专题研讨：成像优化的关键挑战和前沿趋势 Panel discussion: current challenges and trends in optimization for imaging			严明 Ming Yan
17:30 - 19:00	晚 餐 Dinner			

2025 年 9 月 30 日，星期二

Tuesday, September 30, 2025

Time	Title	Speaker	Institution	Chair
07:30 - 09:00	早 餐 Breakfast			
09:00 - 09:40	Diffusion probabilistic model and its applications	段玉萍 Yuping Duan	北京师范大学 Beijing Normal University	曾铁勇 Tieyong Zeng
09:40 - 10:20	低秩先验建模与遥感图像修复	徐爽 Shuang Xu	西北工业大学 Northwestern Polytechnical University	
10:20 - 10:30	茶 歇 Coffee break			
10:30 - 11:10	图像反问题计算的无监督学习算法	李季 Ji Li	首都师范大学 Capital Normal University	刘皓 Hao Liu
11:10 - 11:50	Orientation determination of Cryo-EM images using the riemannian gradient method	潘欢 Huan Pan	湖北师范大学 Hubei Normal University	
11:30 - 13:00	午 餐 Lunch			
14:20 - 15:00	TV p models on surface	曾超 Chao Zeng	南开大学 Nankai University	武婷婷 Tingting Wu
15:00 - 15:20	茶 歇 Coffee break			
15:20 - 17:20	专题研讨：图像处理的跨学科交叉与融合 Panel discussion: interdisciplinary integration in image processing			段玉萍 Yuping Duan
17:30 - 19:00	晚 餐 Dinner			

2025 年 10 月 1 日，星期三

Wednesday, October 1, 2025

Time	Title	Speaker	Institution	Chair
07:30 - 09:00	早 餐 Breakfast			
09:00 - 09:40	船舶航行环境感知增强	刘文 Wen Liu	武汉理工大学 Wuhan University of Technology	唐玉超 Yuchao Tang
09:40 - 10:20	Compress any SAM	范凤磊 Fenglei Fan	香港城市大学 City University of Hong Kong	
10:20 - 10:30	茶 歇 Coffee break			
10:30 - 11:10	Stochastic Bregman proximal DCA for DC composite optimization problem with plug-and-play applications	吴中明 Zhongming Wu	南京信息工程大学 Nanjing University of Information Science and Technology	徐爽 Shuang Xu
11:10 - 11:50	Template-based CT reconstruction with Wasserstein distance and beyond	高益铭 Yiming Gao	南京航空航天大学 Nanjing University of Aeronautics and Astronautics	
11:30 - 13:00	午 餐 Lunch			
14:20 - 15:00	Convex and nonconvex minimization problems in image restoration	唐玉超 Yuchao Tang	广州大学 Guangzhou University	刘文 Wen Liu
15:00 - 15:20	茶 歇 Coffee break			
15:20 - 17:20	专题研讨：深度学习驱动的框架与先验设计 Panel discussion: deep learning-driven frameworks and prior design			赵熙乐 Xi-le Zhao
17:30 - 19:00	晚 餐 Dinner			

2025 年 10 月 2 日，星期四
Thursday, October 2, 2025

Time	Title	Speaker	Institution	Chair
07:30 - 09:00	早 餐 Breakfast			
09:00 - 09:40	Non-negative reduced biquaternion matrix factorization with applications in color face recognition	缪吉飞 Jifei Miao	云南大学 Yunnan University	何亮田 Liangtian He
09:40 - 10:20	Probabilistic photon distribution-guided 3D Transformer for single-photon computational imaging	高绍兵 Shaobing Gao	四川大学 Sichuan University	
10:20 - 10:30	茶 歇 Coffee break			
10:30 - 11:10	球面约束下变分与数据驱动的磁共振降噪	刘志方 Zhifang Liu	天津师范大学 Tianjin Normal University	方发明 Faming Fang
11:10 - 11:50	医学超声断层成像算法进展	娄翠娟 Cuijuan Lou	浙江师范大学 Zhejiang Normal University	
11:30 - 13:00	午 餐 Lunch			
14:20 - 17:20	自由研讨 Free discussion			
17:30 - 19:00	晚 餐 Dinner			

2025 年 10 月 3 日，星期五

Friday, October 3, 2025

Time	Title	Speaker	Institution	Chair
07:30 - 09:00	早 餐 Breakfast			
09:00 - 09:40	Estimation of the average treatment effect on the treated with two-way unobserved heterogeneity	汪军 Jun Wang	云南大学 Yunnan University	吕小光 Xiaoguang Lv
09:40 - 10:20	基于变换的张量核范数	蒋太翔 Taixiang Jiang	西南财经大学 Southwestern University of Finance and Economics	
10:20 - 10:30	茶 歇 Coffee break			
10:30 - 11:10	DrivenMorph: Bridging attention mechanism and variational image registration via difference modeling	张建平 Jianping Zhang	湘潭大学 Xiangtan University	丁猛 Meng Ding
11:10 - 11:50	Almost minimax optimal best arm identification in piecewise-stationary linear bandits	钟梓昕 Zixin Zhong	香港科技大学（广州） Hong Kong University of Science and Technology (Guangzhou)	
11:30 - 13:00	午 餐 Lunch			
14:20 - 15:00	Deep block proximal linearised minimisation algorithm for non-convex inverse problems	黄朝燕 Chaoyan Huang	香港中文大学 The Chinese University of Hong Kong	张建平 Jianping Zhang
15:00 - 15:40	基于深度去噪器的 MRI 重建	侯锐志 Ruizhi Hou	西安科技大学 Xi'an University of Science and Technology	
15:40 - 16:00	茶 歇 Coffee break			
16:00 - 17:20	自由研讨 Free discussion			
17:30 - 19:00	晚 餐 Dinner			