



深圳北理莫斯科大学

УНИВЕРСИТЕТ МГУ-ППИ В ШЭНЬЧЖЭНЕ
SHENZHEN MSU-BIT UNIVERSITY

2024 深圳应用反问题理论与 数值方法研讨会

会议时间: 2024 年 3 月 22-25 日

地点: 深圳北理莫斯科大学图书馆 1 楼视听室

主办单位: 中国工业与应用数学学会反问题与成像专委会;
深圳北理莫斯科大学计算数学与控制系;
北京理工大学数学与统计学院;
莫大-北理-深北莫应用数学联合研究中心

日程安排

March 22

9:00-18:00	Registration & discussion
18:00-19:30	Dinner

March 23

around 8:40	Bus from hotel
Host: Ye Zhang	
9:10-9:30	Opening remarks Acad. Gang Bao, ZJU Group photo
Host: Jin Cheng	
09:30-10:00	Sergey Kabanikhin, Sobolev Institute of Mathematics, Russian Academy of Sciences, “Inverse Problems in Siberia”
10:00-10:30	Bangti Jin, Chinese University of Hong Kong, “On the Early Stopping of Untrained Convolutional Neural Networks”
10:30-11:00	Coffee break
Host: Bo Zhang	
11:00-11:30	Tao Zhou, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, “Information bottleneck based uncertainty quantification”
11:30-12:00	Hai Zhang, Hong Kong University of Science and Technology, ” A theory of computational resolution limit for parameter estimation problems”
12:15-14:00	Lunch
Host: Jijun Liu	
14:00-14:30	Hongyu Liu, City University of Hong Kong & SMBU, “On a geometric principle in wave scattering and applications”
14:30-15:00	Maxim Shishlenin, Sobolev Institute of Mathematics, Russian Academy of Sciences, “Ultrasound tomography: machine learning and optimization”
15:00-15:30	Lingyun Qiu, Tsinghua University, “Traceability of Water Pollution: An Inversion Scheme via Dynamic CGO Solutions”
15:30-16:00	Coffee break
Host: Yanfei Wang	
16:00-16:30	Zhiping Mao, Eastern Institute of Technology/Xiamen

	University, “Solving PDEs with Sharp Solutions Using Deep Neural Networks and Deep Operator Neural Networks”
16:30-17:00	Jingwei Liang, Shanghai Jiao Tong University, “Model Consistency of Iterative Regularization”
17:00-17:30	Chenglong Bao, Tsinghua University, “A Unified Approach to Data Synthesis: Leveraging Paired and Unpaired Datasets”
18:00-19:30	Dinner

March 24

Host: Ting Wei	
09:30-10:00	Jian Zhai, Zhejiang University, “Inverting the local transverse and mixed ray transforms”
10:00-10:30	Xu Wang, Chinese Academy of Sciences, “Inverse Random Potential Scattering for Elastic Waves”
10:30-11:00	Coffee break
Host: Jian Zhai	
11:00-11:30	Yongming Luo, SMBU, “Long time behavior of the focusing NLS on RdTm via the semivirial-vanishing geometry”
11:30-12:00	Guozhi Dong, Central South University, “Second-order dynamics--a computational framework for inverse problems and scientific computing”
12:15-14:00	Lunch
Host: Haie Long	
14:00-14:30	Liang Ding, Northeast Forestry University, “Morozov's discrepancy principle for l_1 - l_2 sparsity regularization”
14:30-15:00	Jinchao Feng, Great Bay University, “Data-driven discovery of interacting particle systems using Gaussian processes”
15:00-18:00	Closing remarks & discussion
18:00-19:30	Dinner

March 25

09:30-12:00	Discussion
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