

The 13th International Conference on Numerical Optimization and Numerical Linear Algebra

SEPTEMBER 15-17, 2021

CHENGDU, SICHUAN, CHINA

Conference Schedule

September 15, Wednesday

09:00-09:30 Opening Ceremony

09:00-09:15 Welcome Address

09:15-09:30 Group Photo

09:30-10:10 Invited Talks V1

Chair: Ya-xiang Yuan

09:30-10:10 **Xiaojun Chen**, Linearly Constrained Nonsmooth Optimization for Training Deep Neural Networks

10:10-10:30 Coffee Break

10:30-11:55 Invited Talks V2

Chair: Yanfei Wang

10:30-11:10 **Mengdi Wang**, Variational Policy Gradient Method for Reinforcement Learning with General Utilities

11:15-11:55 **Yong Xia**, Fifty Years of Second-order Optimality Conditions for Nonconvex Quadratic Optimization

12:00-14:00 Lunch

14:00-15:20 Contributed Talks C1

Chair: Zaikun Zhang

14:00-14:20 Xinwei Liu, A New Augmented Lagrangian Method of Multipliers for Inequality Constrained Optimization

14:20-14:40 Cong Sun, A Special Structured Nonconvex Problem with l_∞ Norm Constraint

14:40-15:00 Haotian Zhao, Curvilinear Search Methods Based on ODE Numerical Solution for Optimization Problems with Spherical Constraints

15:00-15:20 Coffee Break

15:20-16:45 Invited Talks V3

Chair: Zaiwen Wen

15:20-16:00 Zongmin Wu, A Ball Falling in Non-Newtonian Fluids

16:05-16:45 Pierre-Antoine Absil, A Grassmann Manifold Handbook

16:50-17:50 Contributed Talks C2

Chair: Xinwei Liu

16:50-17:10 Zhenyuan Ji, Greedy PSB Methods with Explicit Super-linear Convergence

17:10-17:30 Ruijin Zhang, Solving Convex Quadratic Programming by a Primal-Dual Interior-Point Relaxation Method

17:30-17:50 Wei Liu, Linearly-constrained nonsmooth optimization for training autoencoders

18:00 Dinner

September 16, Thursday

09:00-10:25 Invited Talks V4

Chair: Yuhong Dai

09:00-09:40 Weinan E, 深度学习中的优化问题

09:45-10:25 Zongben Xu, 如何学习学习方法论?

10:25-10:45 Coffee Break

10:45-12:10 Invited Talks V5

Chair: Yafeng Liu

10:45-11:25 Yangfeng Su, A Large Structured Linear System Solver for Future Flat Panel Display Simulator

11:30-12:10 Xin Liu, A Penalty-free Infeasible Approach for a Class of Nonsmooth Optimization Problems over the Stiefel Manifold

12:15-14:00 Lunch

14:00-15:00 Contributed Talks C3

Chair: Bin Shi

14:00-14:20 Zi Xu, Single-looped Optimization Algorithms for Nonconvex Minimax Optimization Problems and Their Complexity Analysis

14:20-14:40 Qingna Li, An Efficient Sparse Quadratic Programming Relaxation Based Algorithm for Large-Scale MIMO Detection

14:40-15:00 Weiyang Ding, Higher Order Extended Dynamic Mode Decomposition Based on the Structured Total Least Squares

15:00-15:20 Coffee Break

15:20-16:45 Invited Talks V6

Chair: Yong Xia

15:20-16:00 Anthony Man-Cho So, Local Strong Convexity of Source Localization and Error Bound for Target Tracking under Time-of-Arrival Measurements

16:05-16:45 Eric Cancès, Numerical Optimization Problems for Molecular Simulation

16:50-17:50 Contributed Talks C4

Chair: Cong Sun

16:50-17:10 Lei Huang, The Generalized Truncated Moment Problem on Unbounded Sets

17:10-17:30 Boou Jiang, Inexact Proximal Gradient Methods with Nesterov Acceleration on Feature Selecting Model

17:30-17:50 Shengjie Chen, A Polyhedral Study on the Maximum k -vertex Covering Problem

18:00 Dinner

September 17, Friday

09:00-10:20 Contributed Talks C5

Chair: Junjie Ma

09:00-09:20 Chao Zhang, A Superlinear Convergent Smoothing VU Algorithm for Nonsmooth Convex Minimization

09:20-09:40 Weikun Chen, Nonoverlap Branching for Chance-constrained Program with Random Right-hand Side

09:40-10:00 Minghan Yang, A Multi-Step Matrix-Product Natural Gradient Method for Deep Learning

10:00-10:20 Lei Wang, A Communication-Efficient And Privacy-Aware Distributed Algorithm For Sparse PCA

10:20-10:40 Coffee Break

10:40-11:00 Closing Ceremony

Chair: Xin Liu

11:30 Lunch

Virtual Meeting Tool

Voov Meeting (Tencent Meeting)

Meeting ID: **352 6432 7936**

Password: **311311**