

2024 International Workshop on Modern Optimization and Applications

Schedule

Time: June 22-25, 2024

Venue: Lecture Hall (1st floor), Siyuan Building of AMSS

June 22, 2024

Short Course, 14:00 - 17:00, Chair: Minru Bai

14:00-17:00	Jiawang Nie (University of California) Moment and polynomial optimization
17:00	Dinner (4 th floor of Wuke Restaurant)

June 23, 2024

Opening Ceremony, 8:30 - 9:10, Chair: Xin Liu

8:30-8:50	Welcome Address (Feimin Huang, Xiaojun Chen, Yu-Hong Dai)
8:50-9:10	Photo Taking

Session 1, 9:10 - 10:00, Chair: Defeng Sun

9:10-10:00	Yin Zhang (The Chinese University of Hong Kong, Shenzhen) Before optimizing deep transformers: How they behave at initialization
10:00-10:20	Coffee Break

June 23, 2024

Session 2, 10:20 - 12:00, Chair: Deren Han

10:20-11:10	Xiaojun Chen (The Hong Kong Polytechnic University) Nonsmooth nonconvex-nonconcave min-max optimization problems
11:10-12:00	Jiawang Nie (University of California) Two stage stochastic polynomial optimization
12:00	Lunch (4 th floor of Wuke Restaurant)
Session 3, 14:00 - 15:40, Chair: Xiaojun Chen	
14:00-14:50	Huifu Xu (The Chinese University of Hong Kong) Multistage utility preference robust optimization
14:50-15:40	Xin Liu (Academy of Mathematics and Systems Science, CAS) Projected gradient descent algorithm for ab initio crystal structure relaxation under a fixed unit cell volume
15:40-16:00	Coffee Break
Poster Session 1, 16:00 - 18:00	
16:00-18:00	Poster Session (Part I)
18:00	Banquet (4 th floor of Wuke Restaurant)

June 24, 2024

Session 4, 8:20 - 10:00, Chair: Ya-Feng Liu

8:20-9:10	Defeng Sun (The Hong Kong Polytechnic University) Accelerating preconditioned ADMM via degenerate proximal point mappings
9:10-10:00	Jiming Peng (University of Houston) Quantitative models and techniques for optimal deployment of mobile health clinic service to underserved vulnerable communities
10:00-10:20	Coffee Break
Session 5, 10:20 - 12:00, Chair: Huifu Xu	
10:20-11:10	Liwei Zhang (Dalian University of Technology) Primal-dual algorithm for distributed optimization with coupled constraints
11:10-12:00	Hongchao Zhang (Louisiana State University) An affine-scaling active set algorithm for polyhedral constrained optimization: Complexity and practical performance
12:00	Lunch (4 th floor of Wuke Restaurant)

June 24, 2024

Session 6, 14:00 - 15:40, Chair: Jiming Peng

14:00-14:50
(Online)

Ambros Gleixner (HTW Berlin and Zuse Institute Berlin)
Branch and cut for partitioning a graph into a cycle of clusters
(Tencent Meeting/VooV Meeting: 726-434-104)

14:50-15:40
(Online)

Sergiy Butenko (Texas A&M University)
A hierarchy of nonconvex continuous reformulations for discrete optimization problems
(Tencent Meeting/VooV Meeting: 726-434-104)

15:40-16:00

Coffee Break

Poster Session 2, 16:00 - 18:00

16:00-18:00

Poster Session (Part II)

18:00

Dinner (4th floor of Wuke Restaurant)

June 25, 2024

Session 7, 8:20 - 10:00, Chair: Liang Chen

8:20-9:10 (Online)	Guanghai (George) Lan (Georgia Institute of Technology) Efficiency and robustness for reinforcement learning (Tencent Meeting/VooV Meeting: 526-258-061)
9:10-10:00	Zhaosong Lu (University of Minnesota) First-order methods for bilevel optimization
10:00-10:20	Coffee Break
Session 8, 10:20 - 12:00, Chair: Wei-Kun Chen	
10:20-11:10	Thorsten Koch (Zuse Institute Berlin&Technical University of Berlin) Benchmarking novel approaches on hard discrete optimization problems
11:10-12:00	Qi Huangfu (Cardinal Operations) Recent development of Cardinal Optimizer
12:00	Lunch (4 th floor of Wuke Restaurant)

June 25, 2024

Session 9, 14:00 - 15:40, Chair: Thorsten Koch

14:00-14:50

Anthony Man-cho So (The Chinese University of Hong Kong)

Spurious stationarity and hardness results for Bregman-type algorithms

14:50-15:40

Caihua Chen (Nanjing University)

Adaptive sampling strategies for stochastic composite optimization

15:40-16:00

Coffee Break

Session 10, 16:00 - 16:50, Chair: Junjie Ma

16:00-16:50

Ya-Feng Liu (Academy of Mathematics and Systems Science, CAS)

One-bit precoding in massive MIMO: Algorithm design and performance analysis

Closing Ceremony, 16:50 - 17:10, Chair: Junjie Ma

16:50-17:10

Closing Address and “Best Poster Award” Announcement

(Xiaojun Chen, Yu-Hong Dai)

17:10

Dinner (4th floor of Wuke Restaurant)