

## Workshop Program

<b>September 22 (Saturday), Arrival &amp; Registration</b>		
<b>September 23 (Sunday), Optimization Theory and Methods (I)</b>		
9:00 - 9:15	Opening Speeches	
9:15 - 10:00, Session Chair: Xiaodong Hu		
9:15 - 10:00	Keynote Speech	Ya-xiang Yuan
	Optimality Conditions and Smoothing Trust Region Newton Method for Non-Lipschitz Optimization	
10:00 - 10:30	Photo Taking & Tea Break	
10:30 - 12:00, Session Chair: Thorsten Koch		
10:30 - 11:00	Numerical Aspects of Optimization Problems with Probabilistic Constraints under Gaussian Distribution	René Henrion
11:00 - 11:30	Successive Convex Approximations to Cardinality-Constrained Quadratic Programs: A DC Approach	Xiaoling Sun
11:30 - 12:00	Reflections on Stochastic Programming	Rüdiger Schultz
12:00 - 13:40	Lunch (AMSS Restaurant)	
13:40 - 15:10, Session Chair: Xiaoling Sun		
13:40 - 14:10	Convergence Analysis of Primal-Dual Algorithms for a Saddle-Point Problem in Total Variation Image Restoration	Bingsheng He
14:10 - 14:40	From Simulation to Optimization	Thorsten Koch
14:40 - 15:10	Simulation of Levy-Driven Models	Jianqiang Hu
15:10 - 15:40	Tea Break	
15:40 - 17:40, Session Chair: Marc Steinbach		
15:40 - 16:00	Alternating Direction Method of Multiplier: Splitting Techniques and Beyond	Xin Liu
16:00 - 16:20	Local Linear Convergence of the Alternating Direction Method of Multipliers for Quadratic Programs	Deren Han
16:20 - 16:40	Iterative Refinement for Linear Programming	Dan Steffy
16:40 - 17:00	Robust PCA for Ground Moving Target Indication in Wide-Area Surveillance Radar System	Qingna Li
17:00 - 17:20	Tangent Cone and Error Bound for Degenerate Constraint Set	Yiran He
17:20 - 17:40	On the Use of Two Simple Models in Bound Constrained Minimization Without Derivatives	Xiaodong Ding
17:40	Dinner (Seafood BBQ)	

<b>September 24 (Monday), Real-World Problem Modeling and Solution (I)</b>		
9:00 - 9:45, Session Chair: Jörg Rambau		
9:00 - 9:45	Keynote Speech	Uwe Zimmermann
	Freight Train Composition with Minimum Shunting Operations	
9:45 - 10:00	Tea Break	
10:00 - 12:00, Session Chair: Guochuan Zhang		
10:00 - 10:30	On Fingerprint Image Compression Based on Non-Negative Matrix Factorization	Tiande Guo
10:30 - 11:00	Robust Tail Assignment	Ralf Borndörfer
11:00 - 11:30	Optimization Based the Ship Stowage Planning Problem of Coils in Steel Industry	Lixin Tang
11:30 - 12:00	Graph Theoretic Approaches to Optimizing Transfer Quality in Public Transportation Networks	Sven Krumke
12:00 - 13:00	Lunch (AMSS Restaurant)	
13:00 - 13:30	Academic visit of AMSS library	
13:40 - 15:10, Session Chair: Rüdiger Schultz		
13:40 - 14:10	Measuring the Potentiality of Decision Making Units	Jinchuan Cui
14:10 - 14:40	Metric Inequalities for Robust Network Design	Arie Koster
14:40 - 15:10	Stochastic Programming Arising from Economic Dispatch with Reliability Risk Constraint in Smart Grid	Xiaojiao Tong
15:10 - 15:40	Tea Break	
15:40 - 17:40, Session Chair: Zhi-Quan Luo		
15:40 - 16:00	Optimal Fuel, Power and Load-Based Emissions Trades for Electric Power Supply Chain Equilibrium	Hongming Yang
16:00 - 16:20	A Primal-Dual Approximation Algorithm for the Two-Level Facility Location Problem	Dachuan Xu
16:20 - 16:40	Measuring the Impact of Primal Heuristics	Timo Berthold
16:40 - 17:00	A Penalty Decomposition Method for Probabilistically Constrained Convex Programs	Xiaojin Zheng
17:00 - 17:20	The Total Variation Model for Determining the Implied Volatility in Option Pricing	Yu-Fei Yang
17:20 - 17:40	Positive Semi-Definite Diffusion Tensor Model in High Angular Resolution Diffusion Imaging	Gaohang YU
17:40	Dinner (Da Zhai Men Restaurant)	

<b>September 25 (Tuesday), Optimization Theory and Methods (II)</b>		
9:00 - 9:45, Session Chair: Naihua Xiu		
9:00 - 9:45	Keynote Speech	Zhi-Quan Luo
	Linear Precoder Design and Admission Control for Wireless Networks	
9:45 - 10:00	Tea Break	
10:00 - 12:00, Session Chair: Alexander Martin		
10:00 - 10:30	Modeling LIBOR Rates Before and During the Crisis	Antonis Papapantoleon
10:30 - 11:00	New Models for Network Connection Problems with Interval Data	Xiaodong Hu
11:00 - 11:30	Computing Material Composition from X-Ray Diffraction Data	Marc Steinbach
11:30 - 12:00	Improved Bounds for RIC in Compressed Sensing	Naihua Xiu
12:00 - 13:00	Lunch (AMSS Restaurant)	
13:00 - 13:30	Academic visit of State Key Laboratory of Scientific and Engineering Computing	
13:40 - 14:40, Session Chair: Ralf Borndörfer		
13:40 - 14:10	TSP with Release Times	Guochuan Zhang
14:10 - 14:40	Finding a Sparsest Solution of an Equation System	Marc Pfetsch
14:40 - 15:00	Tea Break	
15:00 - 16:10, Session Chair: Xin Liu		
15:00 - 15:30	The Constraint Condition and a Primal-Dual Interior-Point Algorithm for Nonlinear Semidefinite Programs	Xinwei Liu
15:30 - 15:50	Max-Min Fairness Linear Transceiver Design for a Multi-User MIMO Interference Channel	Ya-Feng Liu
15:50 - 16:10	Optimizing the Core Tensor in Tucker Decomposition: New Model and Algorithms	Zhening Li
16:10 - 18:00	Academic visit of Beijing Jiaotong University	
18:00	Dinner (Beijing Jiaotong University)	

<b>September 26 (Wednesday), Real-World Problem Modeling and Solution (II)</b>		
9:00 - 9:45, Session Chair: Hans Josef Pesch		
9:00 - 9:45	Keynote Speech	Rolf Möhring
	Optimization Methods for Complex Industrial Scheduling Problems	
9:45 - 10:00	Tea Break	
10:00 - 12:00, Session Chair: Lixin Tang		
10:00 - 10:30	Homotopy Method for Solving Nonlinear Programming with Many Complicated Constraints	Bo Yu
10:30 - 11:00	Stochastic Dominance Analysis of Online Bin Coloring Algorithms	Benjamin Hiller
11:00 - 11:30	A New Approach for Optimal Air Flow Control of Mine Ventilation Network	Yu-Hong Dai
11:30 - 12:00	Makespan-Optimal Routing and Scheduling for Welding Robots	Jörg Rambau
12:00 - 13:40	Lunch (AMSS Restaurant)	
13:40 - 15:10, Session Chair: Tiande Guo		
13:40 - 14:10	Regularization for Sparse Portfolio Rebalancing and Selection Problems	Fengmin Xu
14:10 - 14:40	Solving MINLPs by Discretization Techniques with Applications in Energy Optimization	Alexander Martin
14:40 - 15:10	A New Type of Extragradient Method for Generalized Variational Inequalities	Yiju Wang
15:10 - 15:40	Tea Break	
15:40 - 17:25, Session Chair: Sven Krumke		
15:40 - 16:25	Keynote Speech	Hans Josef Pesch
	An Introduction to Optimal Control of Partial Differential Equations with Real-Life Applications	
16:25 - 17:05	Keynote Speech	Yindong Shen
	Public Transit Scheduling: Modeling, Methods and Applications	
17:05 - 17:25	Optimization-Based Bound Tightening and Lagrangian Variable Bounds	Ambros Gleixner
17:45	Dinner (Xiang Lin Tian Xia Restaurant)	

<b>September 27 (Thursday), Sightseeing</b>	
7:00	Set off from Park Plaza Beijing Science Park
Morning	Half-Day tour to the Great Wall
Time	Lunch (Beijing China Town Hotel)
Afternoon	Half-Day Tour to the Ming Dynasty Tombs
Time	Diner (Hai Di Lao Hot Pot)