Workshop on Data-driven Optimization Methods and Applications

Date：July 6-7, 2019

Venue：The First Lecture Hall, School of Mathematics, Jilin University

Date	Time	Schedule
July 5 (Friday)	14:00－20:00	Registration: June Hotel
Morning, July 6 (Saturday)	08:00－08:30	Opening Ceremony and Group Photo
	08:30－10:00	Chair: **Yong Li**
	08:30－09:00	**Yaxiang Yuan**: Efficient Optimization Algorithms for Large Scale Data Analysis
	09:00－09:30	**Zhiquan Luo**: TBA
	09:30－10:00	**Celso Ribeiro**: TBA
	10:00－10:20	Tea Break
	10:20－12:20	Chair: **Yaxiang Yuan**
	10:20－10:50	**Xiaojun Chen**: Nonsmooth Convex Regression with Cardinality Penalty
	10:50－11:20	**Lixin Tang**: 智能工业数据解析与优化
	11:20－11:50	**Dachuan Xu**: k−平均及其变形问题的算法综述
	11:50－12:20	**So Anthony Man-cho**: Non-Convex Robust Low-Rank Matrix Recovery
	12:20－13:40	Lunch

Date	Time	Schedule
Afternoon, July 6 (Saturday)	13:40－15:40	Chair: **Deren Han**
	13:40－14:00	**Xinwei Liu**: A Distributed Gradient Method with Barzilai-Borwein Step Sizes
	14:00－14:20	**Bo Yu**:训练大规模 SVM 的分解技术和同伦算法
	14:20－14:40	**Zaiwen Wen**: A Stochastic Trust Region Method for Deep Reinforcement Learning
	14:40－15:00	**Min Tao**: Decomposition Method for Computing Directional Stationary Solutions of a Class of Nonsmooth Nonconvex Optimization Problems
	15:00－15:20	**Chao Ding**: Matrix Optimization in Statistical Learning
	15:20－15:40	**Hailin Sun**: Convergence Analysis of Sample Average Approximation of Two-stage Stochastic Generalized Equations
	15:40－16:00	Tea break
	16:00－18:20	Chair: **Zaiwen Wen**
	16:00－16:20	**Yueting Yang**: 两类张量特征值问题的优化方法及应用
	16:20－16:40	**Yafeng Liu**: Semidefinite Relaxations for MIMO Detection: Tightness, Tighterness, and Beyond
	16:40－17:00	**Xiangfeng Wang**: Inductive Generalized Zero-shot Learning via Heterogeneous Graph Neural Network
	17:00－17:20	**Cong Sun**: 求解一类 11 正则化问题的梯度方法及其在反问题中的应用
	17:20－17:40	**Xiantao Xiao**: A Stochastic Semismooth Newton Method for Nonsmooth Stochastic Programs
	17:40－18:00	**Rujun Jiang**: Accelerated First Order Methods and Complexity Analysis of Cubic Regularization Subproblems
	18:00－18:20	**Bo Jiang (江波)**: Adaptively Accelerating Cubic Regularized Newton's Methods for Convex Optimization via Random Sampling
	18:20－	Dinner

Date	Time	Schedule
Morning, July 7 (Sunday)	08:00－10:00	Chair: **Xiaojun Chen**
	08:00－08:30	**Yin Zhang**: Big-Data Clustering: K-Means or K-Indicators?
	08:30－09:00	**Liwei Zhang**: Regrets of an Online Alternating Direction Method of Multipliers for Online Composite Optimization
	09:00－09:30	**Jinyan Fan**: Completely Positive Binary Tensors
	09:30－10:00	**Yuhong Dai**: Training GANs with Centripetal Acceleration
	10:00－10:20	Tea Break
	10:20－12:20	Chair: **Liwei Zhang**
	10:20－10:50	**Wotao Yin**: Minimax Optimization and Training GANs by Optimism and Anchoring Methods
	10:50－11:20	**Deren Han**: 非线性不定项临近点算法
	11:20－11:50	**Xiaoming Yuan**: On the Convergence of Douglas-Rachford and Peaceman-Rachford Splitting Methods for Nonconvex Feasibility Problems
	11:50－12:20	**Guanghui Lan**: Dynamic Stochastic Approximation for Multi-stage Stochastic Optimization with Applications in Asset Allocation
	12:20－13:40	Lunch

Date	Time	Schedule
Afternoon, July 7 (Sunday)	13:40－15:40	Chair: **Xinwei Liu**
	13:40－14:00	**Wen Song**: Optimality Conditions for Optimization Problems with Structural Nonconvex Constraints
	14:00－14:20	**Qing Ling**: RSA: Byzantine-Robust Stochastic Aggregation Methods for Distributed Learning from Heterogeneous Datasets
	14:20－14:40	**Zi Xu**: On the Relationship of Semidefinite Relaxations for MIMO Detection with General Constraints
	14:40－15:00	**Wei Bian**: Accelerated Iterative Hard Thresholding Algorithm for l_0 Regularized Regression Problem
	15:00－15:20	**Yongchao Liu**: Confidence Regions of Stochastic Variational Inequalities
	15:20－15:40	**Bo Jiang（姜波）**: Vector Transport-Free SVRG with General Retraction for Riemannian Optimization: Complexity Analysis and Practical Implementation
	15:40－16:00	Tea Break
	16:00－17:15	Chair: **Wen Song**
	16:00－16:20	**Ruiping Wen**: Matrix Recovery with Incomplete Samples via Non-monotone Alternating Directional Method
	16:20－16:40	**Dali Zhang**: Utility - based shortfall risk: Efficient computations via Monte Carlo
	16:40－17:00	**Xingju Cai**: A Gauss-Seidel Type Inertial Proximal Alternating Linearized Minimization for a Class of Nonconvex Optimization Problems
	17:00－17:20	**Shenglong Hu**: Best Nonnegative Rank-One Approximations of Tensors
	17:20－17:40	**Chao Kan**: Local Convergence of Augmented Lagrangian Methods for Optimization Problems with the Second-order Regular Set Constraints
	17:40－18:00	**Yanfang Zhang**: Smoothing Quadratic Regularization Method for the Hemivariational Inequalities
	18:00－18:20	**Xiao Wang**: Inexact Proximal Stochastic Second-Order Methods for Nonconvex Composite Optimization
	18:20－	Dinner