Workshop Schedule

June 16, 2018	
Room 204, South Building of AMSS	
Opening Ceremony, 8:30 - 9:10, Chair: Xin Liu	
8:30 - 8:50	Welcome Address (Jialin Hong, Yu-Hong Dai, Tamás Terlaky)
8:50 - 9:10	Photo Taking
Session 1, 9:10 - 10:00, Chair: Jiming Peng	
9:10 - 10:00	**Sergiy Butenko** (Texas A&M University) Continuous approaches to cluster-detection problems in networks
10:00 - 10:20	Coffee Break
Session 2, 10:20 - 12:00, Chair: Oleg P. Burdakov	
10:20 - 11:10	**Zhi-Quan Luo** (The Chinese University of Hong Kong, Shenzhen & University of Minnesota) Solving large linear systems with a double stochastic Gauss-Seidel algorithm
11:10 - 12:00	**Nick Sahinidis** (Carnegie Mellon University) ALAMO: Machine learning from data and first principles
12:00 - 14:00	Lunch (4th floor of Wuke Restaurant)
Session 3, 14:00 - 15:40, Chair: Zhi-Quan Luo	
14:00 - 14:50	**Tamás Terlaky** (Lehigh University) Quadratic convergence to the optimal solution of second-order conic optimization
14:50 - 15:40	**Xiaojun Chen** (The Hong Kong Polytechnic University) Spherical designs and non-convex minimization for recovery of sparse signals on the sphere
15:40 - 16:00	Coffee Break
Poster Session, 16:00 - 18:00, Chairs: Xiaojun Chen, Fengmin Xu	
16:00 - 18:00	Poster Session (1st floor of South Building)
18:00	Dinner (4th floor of Wuke Restaurant)

June 17, 2018	
Room 204, South Building of AMSS	
Session 4, 8:20 - 10:00, Chair: Defeng Sun	
8:20 - 9:10	**Jiming Peng** (University of Houston)
	Assessing systemic risk in financial networks under incomplete market information
9:10 - 10:00	**Tsung-Hui Chang** (The Chinese University of Hong Kong, Shenzhen)
	Transceiver optimization in full-duplex multi-user networks
10:00 - 10:20	Coffee Break
Session 5, 10:20 - 12:00, Chair: Naihua Xiu	
10:20 - 11:10	**Wotao Yin** (University of California, Los Angeles)
	Douglas-Rachford splitting for pathological problems
11:10 - 12:00	**Hulin Wu** (The University of Texas Health Science Center at Houston)
	Optimization challenges for big data analytics and predictions: Examples from GEO genomics and EHR phenomics data analysis and modeling
12:00 - 14:00	Lunch (4th floor of Wuke Restaurant)
Session 6, 14:00 - 15:40, Chair: Sergiy Butenko	
14:00 - 14:50	**Panos M. Pardalos** (University of Florida)
	On the limits of computation in non-convex optimization
14:50 - 15:40	**Ya-xiang Yuan** (Academy of Mathematics and Systems Science, CAS)
	Stochastic proximal quasi-Newton methods for nonconvex composite optimization
15:40 - 16:00	Coffee Break
Poster Session, 16:00 - 18:00, Chairs: Zhi-Quan Luo, Deren Han	
16:00 - 18:00	Poster Session (1st floor of South Building)
18:00	Banquet (4th floor of Wuke Restaurant)

June 18, 2018	
Room 204, South Building of AMSS	
Session 7, 8:20 - 10:00, Chair: Ya-xiang Yuan	
8:20 - 9:10	**Oleg P. Burdakov** (Linkoping University)
	Spectrum-based limited memory algorithms
9:10 - 10:00	**Anthony Man-Cho So** (The Chinese University of Hong Kong)
	On the linear convergence of the ADMM for regularized non-convex low-rank matrix recovery
10:00 - 10:20	Coffee Break
Session 8, 10:20 - 12:00, Chair: Xin Liu	
10:20 - 11:10	**Yanfei Wang** (Institute of Geology and Geophysics, CAS)
	Nano-CT imaging in shale structure analysis
11:10 - 12:00	**Zaiwen Wen** (Peking University)
	A stochastic semismooth Newton method for nonsmooth non-convex optimization
12:00 - 14:00	Lunch (4th floor of Wuke Restaurant)
Session 9, 14:00 - 15:40, Chair: Donglei Du	
14:00 - 14:50	**Yuantao Gu** (Tsinghua University)
	Restricted isometry property of random projection for low-dimensional subspaces
14:50 - 15:40	**Neng Fan** (University of Arizona)
	Multi-level optimization for resilient planning and operations of interdependent infrastructures
15:40 - 16:00	Coffee Break
Session 10, 16:00 - 16:50, Chair: Tiande Guo	
16:00 - 16:50	**Defeng Sun** (The Hong Kong Polytechnic University)
	A block symmetric Gauss-Seidel decomposition theorem and its applications in big data nonsmooth optimization
Closing Ceremony, 16:50 - 17:10, Chair: Yu-Hong Dai	
16:50 - 17:10	Closing Address and "Best Poster Award" Announcement (Ya-xiang Yuan, Xiaojun Chen)
17:10	Dinner (4th floor of Wuke Restaurant)