



Optimization Program WISO Workshop
February 8-10, 2017
POSTERS

Chen Attias

Weizmann Institute of Science

"Stochastic Combinatorial Optimization with Testing"

Emre Barut

George Washington University

"An Approximate ADMM Algorithm for Envelope Estimation"

Robert Bassett

University of California, Davis

"Duality in Estimation and Control with Log-Concave Noise"

Vijaya Raghavendra Bollapragada

Northwestern University

"Exact and Inexact Subsampled Newton Methods for Optimization"

Phil Bording

Alabama A&M University / IBM Research

"Reflection Tomography Uncertainty using the MM Scheme"

Tan Bui-Thanh

University of Texas, Austin

"Scalable Approaches to Large-Scale Data-Driven PDE-Constrained Bayesian Inverse Problems in High Dimensional Parameter Spaces"

Shanshan Cao

Georgia Tech

"Dynamic Change-Point Detection using Similarity Networks"

Cuixian Chen

University of North Carolina, Wilmington

"Modified Supervised Kernel PCA for Gender Classification"

Guangliang Chen

San Jose State University

“Novel Machine Learning Techniques for Fast, Accurate Parameter Selection in Gaussian-kernel SVM”

Xiongwen Chen

Alabama A&M University

“Will More Tree Diversity Bring Back More Income in Timber?”

Shih-Kang Chao

Purdue University

“Distributed Computation for Quantile Regression Processes”

Matthias Chung

Virginia Tech University

“Stochastic Newton and Quasi-Newton Methods for Large Least-Squares Problems”

Martin Copenhaver

MIT

“Low Rank Factor Analysis”

Xiaowu Dai

University of Wisconsin

“Selection Criteria in Spline Regression for Inhomogeneous Large-Scale Data”

Sam Davanloo

Ohio State University

“A Two-Stage Convex Optimization Algorithm for Fitting Gaussian Random Field (GRF) Models”

Josh Day

North Carolina State University

"OnlineStats: On-line Algorithms for Statistics and Machine Learning"

Ulf Friedrich

Trier University

“Discrete Optimization in Survey Statistics”

Brian Gaines

North Carolina State University

"Algorithms for Fitting the Constrained Lasso"

Roger Ghanem

University of Southern California

“Probabilistic Optimization on Manifold”

Jun Guo

University of Michigan

“Stochastic Non-Convex Optimization in Mixed Effect Generalized Linear Models”

Liuyi Hu

North Carolina State University

“MM algorithm for variance components model”

Kevin Keys

University of California, San Francisco

“Hard Thresholding for Penalized Generalized Linear Models in Genome-Wide Association Studies”

Prabhani Kuruppumullage Don

University of Rhode Island

"Model Selection in Latent Discrete Models for Two-Way Arrays: gradient function"

Trisha Lawrence

University of Saskatchewan

“Stochastic Dynamic Model for Revenue Optimization”

Ellen Le

University of Texas

“Methods for Known Bottlenecks in Statistical Inverse Problems Governed by PDEs”

Daoji Li

University of Central Florida

“Interaction Pursuit with Feature Screening and Selection”

Luigi Malago

Romanian Institute of Science and Technology

“From Natural Gradient to μ -Hessian: Second-order Optimization over Statistical Manifolds”

Mikhail Malyutov

Northeastern University

“Quality Improvement via Parallel Computing and the Response Surface Method”

Theodoros Mathikolonis
University College London

“Surrogate-Based Optimization using Mutual Information for Computer Experiments (MICE)”

Haomiao Meng
Binghamton University

“Individual Treatment Rule with Reject Option”

Stanislav Minsker
University of Southern California

“Random Matrices with Heavy-Tailed Entries: Tight Mean Estimators and Applications”

Aaron Molstad
University of Minnesota

“Structured Multivariate Response Regression”

Anarina Murrillo
University of Alabama

“A Dynamical Model for Evaluating the Role of Free Fatty Acids on the Progression of Type 2 Diabetes”

Greg Ongie
University of Michigan

“A Memory-Efficient Frank-Wolfe Primal-Dual Algorithm for Sparsity Regularized Inverse Problems”

Dustin Pluta
University of California, Irvine

“A Simulation Study of Optimization Methods for Tensor Regression”

Farhad Pourkamali-Anaraki
University of Colorado

“Estimating Active Subspaces with Gradient Sketching”

Brad Price
West Virginia University

“Group Fused Multinomial Regression”

Chao Qin
Northwestern University

“Bayesian Global Optimization via a Simple Variant of Expected Improvement”

Yichen Qin

University of Cincinnati

“Robust High-Dimensional Regression and Variable Selection”

Johannes Royset

Naval Postgraduate School

“Constrained Maximum Likelihood Estimators for Densities: variational formulations and consistency”

Eric de Sturler

Virginia Tech University

“Randomized Optimization for Inverse Problems and Optimal Structural Design”

Adama Tandia

Corning, Inc.

“Multiobjective Optimization for Manufacturing Process Design”

Davoud Ataee Tarzanagh

University of Florida

“Randomized Tensor Decompositions Based on Circulant Algebra”

Philip Thompson

Center for Mathematical Modeling (CMM), Univ. de Chile

“Sample Average Approximation under Heavier Samples”

Cesar A. Uribe

University of Illinois

“Distributed Learning for Collaborative Inference”

Berk Ustun

MIT

“Optimized Risk Scores”

Praneeth Vepakomma

Motorola Solutions

“Supervised Dimensionality Reduction via Distance Correlation Maximization”

HaiYing Wang

University of New Hampshire

“Information-Based Optimal Subdata Selection for Big Data Linear Regression”

Andre Wibisono
University of Wisconsin

“A Variational Perspective on Accelerated Methods in Optimization”

Yu Xia
Lakehead University

“Second-Order Cone Programming for P-Spline Regression”

Zhiqin Xu
New York University

“A Probability Polling State --- the Maximum Entropy Principle in Neuronal Data Analysis”

Lin Yao
SUNY at Binghamton

“James-Stein Type Optimal Weight Choice for Frequentist Model Average Estimators”

Kungang Zhang
Northwestern University

“An Inverse Kernel PCA Method in Manifold Learning”

Enlu Zhou
Georgia Tech University

“Asymptotics of Bayesian Risk Formulations for Data-driven Stochastic Optimization”

Shengxin Zhu
Xianjiaotong Liverpool University

“Computing Log-Likelihood and its Derivatives with Application in High-Throughput Biological Data”