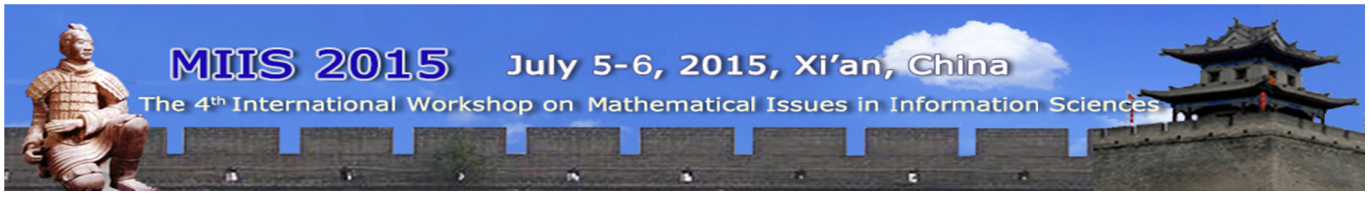

Date
July 5-6, 2015

Place
Xidian University
Xi'an, P.R. China

Free Registration

Workshop Organizers:
Xiang-Gen Xia
University of Delaware
Zhi-Quan Luo
University of Minnesota, CUHK(SZ)
Hongwei Liu
Xidian University
Jiandong Li
Xidian University
Ming Jiang
Peking University
Yu-Guang Shi
Peking University
Yu-Hong Dai
Chinese Academy of Sciences
Jian-Guo Huang
Northwestern Polytechnic University
Kehu Yang
Xidian University

Local Organizers:
Yuan-Yuan Zuo, Xidian University
Hongxin Tian, Xidian University
Lin-Rang Zhang, Xidian University
Bo Chen, Xidian University
Qing Xu, Xidian University

Sponsors
National Lab of Radar Signal Processing,Xidian University

Collaborative Innovation Center of Information Sensing and Understanding

Network laboratory.CETC20

State Key Laboratory of Integrated Services Network

Major Project "Key Mathematical Issues in Information processing", NSFC

Center for Optimization and Applications, CAS

In recent years there has been a surge of research in the interfaces between mathematical optimization, statistics, information theory, data mining, signal processing and wireless communication, leading to new powerful mathematical techniques as well as efficient algorithms for important applications in information sciences. The interplay between the information sciences and the applied mathematics communities has been greatly beneficial to both sides: modern optimization and statistics have significantly broadened the class of information science problems considered solvable, while applications in data mining, signal processing and communications provide great impetus for new algorithmic tools and analysis in statistics and optimization. The goal of this workshop is twofold: (1) to feature recent advances in the field and highlight emerging challenges and applications, and (2) to invite some speakers from industry to illustrate the impact of technology in information sciences. The workshop will bring together leading researchers in signal processing, communications and optimization from academia, industry and government, and will showcase recent new results on algorithmic methods and complexity analysis in diverse areas such as estimation and detection theory, MIMO radar, interference management, image/speech processing, beamforming and array processing, communication systems and networks, and so on.

Single Track Speakers (July 5-6, 2015, in alphabetical order by surname)

- **Tony Cai, University of Pennsylvania**
  Recovery of High-Dimensional Low-Rank Matrices
- **Guoliang Fan, Oklahoma State University**
  Point Set Registration Approaches to Human Pose Estimation: A Two-perspective Study
- **Fulvio Gini, University of Pisa,Italy**
  Modeling and Mismodeling in Adaptive Radar Detection – Parameter Bounds Under Misspecified Models
- **Zhu Han, University of Houston**
  Case Study of Big Data Analysis for Smart Grid
- **Yingbo Hua, University of California at Riverside**
  Blind Digital Tuning – a Digital Method for an Analog World
- **Ron Kimmel, Technion - Israel Institute of Technology**
  A Spectral Perspective on Shape Analysis
- **Zhiquan Luo, University of Minnesota, CUHK(SZ)**
  Guaranteed Matrix Completion via Non-convex Factorization
- **Jonathan Manton, University of Melbourne**
  Optimisation on Manifolds, and Optimisation Geometry
- **Isao Yamada, Tokyo Institute of Technology**
  Two Spices of Convex Optimization for Certain Inverse Problems
- **Xiao-Ping Zhang, Ryerson University**
  Signal Processing for Finance, Economics and Marketing
- **Yimin Zhang, Villanova University**
  Time-Frequency Analysis and Array Processing for Nonstationary Signals

Contact us

Ronggang Cheng and Bo Chen

Email: rgcheng@xidian.edu.cn; Phone: (029) 8820 2260 or 136 1920 3404

Workshop Website: http://www.miis2015.org/

Space is limited, go to the workshop website and learn more now!!!

Sunday, July 5, 2015

Place	Building J-112, Main Campus of Xidian University
Opening Session	8:30 – 9:00
Session Chair	**Hongwei Liu, Xidian University, China**
Opening Speech	**Yintang Yang, Vice President of Xidian University, China**
Session 1	
Session Chair	**Xianggen Xia, University of Delaware, USA**
9:00 – 10:00	**Tony Cai, University of Pennsylvania** Recovery of High-Dimensional Low-Rank Matrices
10:00 – 11:00	**Yingbo Hua, University of California at Riverside** Blind Digital Tuning – a Digital Method for an Analog World
11:00 – 11:15	Coffee Break
11:15 – 12:15	**Guoliang Fan, Oklahoma State University** Point Set Registration Approaches to Human Pose Estimation: A Two-perspective Study
Session 2	
Session Chair	**Guoliang Fan, Oklahoma State University**
14:30 – 15:30	**Isao Yamada, Tokyo Institute of Technology** Two Spices of Convex Optimization for Certain Inverse Problems
15:30 – 16:30	**Jonathan Manton, University of Melbourne** Optimization on Manifolds, and Optimization Geometry
16:30 – 16:45	Coffee Break
16:45 – 17:45	**Zhiquan Luo, University of Minnesota, CUHK(SZ)** Guaranteed Matrix Completion via Non-convex Factorization

Monday, July 6, 2015

Place	Building J-112, Main Campus of Xidian University
Session 3	
Session Chair	**Zhiquan Luo, University of Minnesota, CUHK(SZ)**
8:30 – 9:30	**Xiao-Ping (Steven) Zhang, Ryerson University** Signal Processing for Finance, Economics and Marketing
9:30 – 10:30	**Yimin Zhang, Villanova University** Nonstationary Signal Analysis and Array Processing
10:30 – 11:00	Coffee Break
11:00 – 12:00	**Fulvio Gini, University of Pisa** Modeling and Mismodeling in Adaptive Radar Detection – Parameter Bounds under Misspecified Models
12:00 – 14:30	Lunch Break
Session 4	
Session Chair	**Bo Chen, Xidian University, China**
14:30 – 15:30	**Ron Kimmel, Technion - Israel Institute of Technology** A Spectral Perspective on Shape Analysis
15:30 – 16:30	**Zhu Han, University of Houston** Case Study of Big Data Analysis for Smart Grid
16:30 – 17:00	Coffee Break
17:00 – 18:00	Panel on Big Data in Different Fields
Panel Chair	**Zhiquan Luo, University of Minnesota, CUHK(SZ)**
Panelists	**Guoliang Fan, Yingbo Hua, Isao Yamada, Jonathan Manton, Yimin Zhang, Fulvio Gini, Xiao-Ping Zhang, Ron Kimmel**