

2012 International Workshop on Signal Processing, Optimization, and Control

Organizers: Qing LING, Zaiwen WEN, Wotao YIN, Xiaoming YUAN

Location: Room 3223, No. 3 Teaching Building, University of Science and Technology of China

Saturday, June 30

6:30 PM Dinner / Participants Self-Introduction

Sunday, July 1

Breakfast

8:40 AM Organizers Opening

Session 1 (Chair: YUAN, Xiaoming)

8:50 AM RUAN, Dan Application-driven modeling and optimization in medical physics

9:25 AM MA, Richard Price differentiation in the Kelly mechanism

10:00 AM JIA, Xun L21 norm minimization for beam orientation optimization in intensity modulated radiation therapy

10:35 AM SO, Anthony Physical-layer multicasting by stochastic transmit beamforming and Alamouti space-time coding

11:10 AM Panel discussions (Panelists: RUAN, MA, JIA, SO)

11:30 AM Lunch

Session 2 (Chair: LING, Qing)

1:00 PM MA, Shiqian Alternating proximal gradient method for sparse and low-rank optimization

1:35 PM LIU, Xin Beyond heuristics: applying alternating direction method of multipliers in solving matrix factorization problems

2:10 PM HUANG, Yongwei New rank-one matrix decomposition techniques and applications to signal processing

2:45 PM MA, Jianwei Low-rank matrix completion for seismic data reconstruction

3:20 PM Panel discussions (Panelists: MA, LIU, HUANG, MA)

3:40 PM Tea Break

Session 3 (Chair: WEN, Zaiwen)

4:00 PM YE, Xiaojing Total variation based image reconstruction with variable stepsizes and its applications

4:35 PM ZHANG, Xiaoqun Wavelet frame based color image demosaicing

5:10 PM DONG, Bin Sparse approximation by wavelet frames and applications

5:45 PM Panel discussions (Panelists: YE, ZHANG, DONG)

6:30 PM Dinner

Monday, July 2

8:00 AM Breakfast

Session 4 (Chair: YIN, Wotao)

8:50 AM YUAN, Xiaoming A unified proximal revisit on some splitting methods

9:25 AM LING, Qing Decentralized low-rank matrix completion

10:00 AM WEN, Zaiwen Alternating direction augmented Lagrangian methods for nonconvex problems

10:35 AM YIN, Wotao Some recent results on sparse optimization

11:10 AM Panel discussions (Panelists: YUAN, LING, WEN, YIN)

11:30 AM Lunch