

Program-at-a-glance

Time	Jan 19 (Mon)	Jan 20 (Tue)	Jan 21 (Wed)	Jan 22 (Thu)	Jan 23 (Fri)
Chair	Tony Chan	Xue-Cheng Tai	Carola-Bibiane Schönlieb	Raymond Chan	Mila Nikolova
08:45-09:00	Opening				
09:00-09:40	Roland Glowinski	Zong-Ben Xu	Marc Teboulle	Carola-Bibiane Schönlieb	Robert Plemmons
09:40-10:20	François Malgouyres	Jing Yuan	Xiao-Jun Chen	Wen-Bing Tao	Ming Jiang
10:20-10:50	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:50-11:30	Gabriele Steidl	Bin-Sheng He	Yue-Sheng Xu	Wei Zhu	Russell Luke
11:30-12:10	Lionel Moisan	Xiao-Ming Yuan	De-Xing Kong	Ronald Lui	Yuan Yao
12:10-14:00	Lunch	Lunch	Lunch	Lunch	Lunch
Chair	Roland Glowinski	Zong-Ben Xu	Marc Teboulle		Robert Plemmons
14:00-14:40	Andrés Almansa	Kristian Bredies	Michale Hintermüller	Excursion (start at 13:30)	Conclusion Session
14:40-15:20	Xiao-Qun Zhang	Ke Chen	Li-Xin Shen		
15:20-16:00	Shi-Qian Ma	Alain Trouvé	Coffee Break		
16:00-16:30	Coffee Break	Outing (Beach)	Poster Session		Outing (Beach/Gift)
16:30-18:00	Discussion 1				
18:00-19:00	Dinner	Dinner	Banquet	Dinner	Dinner
19:00-21:30	Outing (Beach)	Discussion 2		Discussion 3	

Schedule

January 19, Monday

Session Chair Tony Chan

08:45-09:00 Opening Ceremony and Group Photo

09:00-09:40 Roland Glowinski

A calculus of variations-elliptic solver approach to the numerical solution of an Eikonal system (P. 12)

09:40-10:20 François Malgouyres

Fast Transform Learning (P. 17)

10:20-10:50 Coffee Break

10:50-11:30 Gabriele Steidl

Disparity and Optical Flow Partitioning Using Extended Potts Priors (P. 19)

11:30-12:10 Lionel Moisan

Optimization of image sharpness metrics based on phase coherence and application to blind deblurring (P. 17)

12:10-14:00 Lunch

Session Chair Roland Glowinski

14:00-14:40 Andrés Almansa

Single shot high dynamic range imaging using an hyperprior Bayesian estimator (P. 10)

14:40-15:20 Xiao-Qun Zhang

Dynamic SPECT reconstruction from few projections: a sparsity enforced matrix factorization approach (P. 23)

15:20-16:00 Shi-Qian Ma

Stochastic Quasi-Newton Methods for Nonconvex Stochastic Optimization (P. 16)

16:00-16:30 Coffee Break

16:30-18:00 Discussion 1

18:00-19:00 Dinner

19:00-21:30 Outing (Beach)

January 20, Tuesday

Session Chair Xue-Cheng Tai

09:00-09:40 Zong-Ben Xu

High-order Compressive Sensing: A Target and Background Separation Tensor Approach (P. 21)

09:40-10:20 Jing Yuan

High-Performance Dual Optimization Methods with Applications to Medical Image Analysis (P. 22)

10:20-10:50 Coffee Break

10:50-11:30 Bing-Sheng He

ADMM-like methods for three-block separable convex programming: from variational inequality perspective (P. 13)

11:30-12:10 Xiao-Ming Yuan

Block-wise Alternating Direction Method of Multipliers for Multiple-block Convex Programming and Beyond (P. 23)

12:10-14:00 Lunch

Session Chair Zong-Ben Xu

14:00-14:40 Kristian Bredies

Preconditioned Douglas-Rachford algorithms for the solution of variational imaging problems (P. 10)

14:40-15:20 Ke Chen

On a new non-local fractional order variation model with applications to modeling deformation of image registration (P. 11)

15:20-16:00 Alain Trouvé

Computing Geodesics in Shape Spaces: Why, When and How? (P. 20)

16:00-18:00 Outing (Beach)

18:00-19:00 Dinner

19:00-21:30 Discussion 2

January 21, Wednesday

Session Chair Carola-Bibiane Schönlieb

09:00-09:40 Marc Teboulle

Soothing methods for nonsmooth optimization: a guided detour (P. 20)

09:40-10:20 Xiao-Jun Chen

Smoothing quadratic regularization methods for box constrained non-Lipschitz optimization in image restoration (P. 12)

10:20-10:50 Coffee Break

10:50-11:30 Yue-Sheng Xu

Fixed-point proximity algorithms for solving non-convex non-smooth optimization problems arising from signal and image processing (P. 21)

11:30-12:10 De-Xing Kong

Introduction on mathematical medicine and some applications to accurate operations (P. 15)

12:10-14:00 Lunch

Session Chair Marc Teboulle

14:00-14:40 Michale Hintermüller

Robust principal component pursuit via inexact alternating minimization on matrix manifolds (P. 14)

14:40-15:20 Li-Xin Shen

1-Bit Compressive Sensing (P. 18)

15:20-16:00 Coffee Break

16:00-18:00 Poster Session

18:00-21:30 Banquet

January 22, Thursday

Session Chair Justin Wan

09:00-09:40 Carola-Bibiane Schönlieb

Total variation regularisation as a discrete gradient flow (P. 18)

09:40-10:20 Wen-Bing Tao

SaCoseg: Object Cosegmentation by Shape Conformability (P. 19)

10:20-10:50 Coffee Break

10:50-11:30 Wei Zhu

A Variational Model for Shape from Shading Using Mean Curvature (P. 24)

11:30-12:10 Ronald Lui

High-genus surface registration and its applications to medical imaging (P. 15)

12:10-13:30 Lunch

13:30-18:00 Excursion

18:00-19:00 Dinner

19:00-21:30 Discussion 3

January 23, Friday

Session Chair Mila Nikolova

09:00-09:40 Robert Plemmons

Optical Imaging Through Atmospheric Turbulence in Remote Sensing (P. 18)

09:40-10:20 Ming Jiang

Methods for accelerating x-ray tomographic reconstruction (P. 14)

10:20-10:50 Coffee Break

10:50-11:30 Russell Luke

Proximal heterogeneous block input-output method and application to blind pdiffraction imaging (P. 16)

11:30-12:10 Yuan Yao

Authentication of Van Gogh paintings with geometric tight frames (P. 22)

12:10-14:00 Lunch

Session Chair Robert Plemmons

14:00-16:00 Conclusion Session

16:00-18:00 Outing (Beach/Gift)

18:00-19:00 Dinner