

The Second HKSIAM Biennial Meeting

Wednesday, 30th August 2023

9:00 - 10:40	Plenary Session LT1	Qiang Du Nonlocal models on bounded domains: formulation, analysis and computation				
	Chair: Habib Ammari	Mete Soner Eikonal Equations on Wasserstein Spaces				
10:40 - 11:00	Group Photo + Coffee Break					
11:00 - 12:30	MS01, LT1	MS02, 201	MS04, 202	MS11, 203	MS12, 209A	MS16, 209B
	Sanghyeon Yu	Michel Cristofol	Ye Zhang	Haixia Liu	Jiwei Zhang	Shuting GU
	Bryn Davies	Shumin Li	Yuling Jiao	Xiaohao Cai	Zuoqiang Shi	Li Shan
	Jiayu Qiu		Fengru Wang	Daoping Zhang		Shuonan Wu
12:30 - 14:30	Lunch Break					
14:30 - 19:00	Free Afternoon					
	HKSIAM Bi-Annual Meeting (15:30-17:30 LT1A)					
19:00 - 21:00	Banquet					

Wednesday, 30th August 2023
2nd HKSIAM Meeting @ LT1

9:00 - 10:40
Plenary Session

Chair:
Habib Ammari

Qiang Du
Nonlocal models on bounded domains:
formulation, analysis and computation

Mete Soner
Eikonal Equations on Wasserstein Spaces

11:00 - 12:30

Minisymposium 01

Sanghyeon Yu
A unified approach to the field concentration problem

Bryn Davies
Periodic approximants of one-dimensional Fibonacci quasicrystals

Jiayu Qiu
Mathematical theory for the interface mode in a waveguide bifurcated from a Dirac point

15:30 - 17:30

HKSIAM Bi-Annual Meeting

Wednesday, 30th August 2023
2nd HKSIAM Meeting @ Room 201

11:00 - 11:30, MS02, Michel Cristofol
An inverse problem for a generalized FitzHugh-Nagumo type system

11:30 - 12:00, MS02, Shumin Li
Inverse problems for a singular parabolic equation with variable coefficients

Wednesday, 30th August 2023
2nd HKSIAM Meeting @ Room 202

11:00 - 11:30, MS04, Ye Zhang

Estimating adsorption isotherm parameters in chromatography via a virtual injection promoting double feed-forward neural network

11:30 - 12:00, MS04, Yuling Jiao

Inversion of drift in SDE with deep learning

12:00-12:30, MS04, Fengru Wang

Deep Ritz Method for Optimization with Elliptical Constraints in High Dimensional Space

Wednesday, 30th August 2023
2nd HKSIAM Meeting @ Room 203

11:00 - 11:30, MS11, Haixia Liu
Distance Covariance-based Fair Classification

11:30 - 12:00, MS11, Xiaohao Cai
Segmentation and Classification using Deep Learning Technologies

12:00 - 12:30, MS11, Daoping Zhang
A Unifying Framework for n-Dimensional Quasi-Conformal Mappings

Wednesday, 30th August 2023
2nd HKSIAM Meeting @ Room 209A

11:00 - 11:30, MS12, Jiwei Zhang

An efficient implementation of 3D FEM for nonlocal Poisson problem with
different ball approximation strategies

11:30 - 12:00, MS12, Zuoqiang Shi

Nonlocal diffusion model with Dirichlet boundary condition

Wednesday, 30th August 2023
2nd HKSIAM Meeting @ Room 209B

11:00 - 11:30, MS16, Shuting GU

Scalar auxiliary variable approach in iterative minimization formulation
for saddle point search

11:30 - 12:00, MS16, Li Shan

Fast ensemble methods for dual-porosity-Stokes model with uncertainty quantification

12:00 - 12:30, MS02, Shuonan Wu

Robust BPX preconditioner for fractional Laplacians on bounded Lipschitz domains