CityU-SJTU Joint Workshop 2024
Day 1, 23 November 2024, Saturday

HK Time		Venue
8:30 - 8:50	**Registration opens**	Y4302
8:50 - 9:00	**Opening Ceremony** **Photo Session**	Y4302
9:00 – 9:30	**INVITED TALK 1: A Cartesian grid method for nonhomogeneous elliptic interface problems on unbounded domains** *Prof. Wenjun Ying, Shanghai Jiao Tong University, China*	
9:30 – 10:00	**INVITED TALK 2: Sensitivity analysis of colored-noise-driven interacting particle systems** *Prof. Laurent Mertz, City University of Hong Kong, Hong Kong China*	
10:00 – 10:30	**INVITED TALK 3: A robust lower order mixed finite element method for a strain gradient elastic model** *Prof. Jianguo Huang, Shanghai Jiao Tong University, China*	
10:30 - 11:00	**Coffee Break**	
11:00 – 11:30	**INVITED TALK 4: Least-Squares versus Partial Least-Squares Finite Element Methods: Robust Error Analysis** *Prof. Shun Zhang, City University of Hong Kong, Hong Kong China*	Y4302
11:30 - 12:00	**INVITED TALK 5: Scalable Bayesian Inference with Kinetic Langevin Dynamics** *Prof. Neil Chada, City University of Hong Kong, Hong Kong China*	
12:00 - 12:30	**INVITED TALK 6: Operator Learning for Nonsmooth Optimal Control of PDEs** *Prof. Yongcun Song, City University of Hong Kong, Hong Kong China*	
12:30 - 14:00	**Lunch Break**	City Chinese Restaurant
14:00 - 14:30	**INVITED TALK 7: ODE-DPS: ODE-based Diffusion Posterior Sampling for Inverse Problems in Partial Differential Equations** *Prof. Zheng Ma, Shanghai Jiao Tong University, China*	Y4302
14:30 - 15:00	**INVITED TALK 8: A unified HDG method for fluid-structure interaction based on Alfeld splits** *Prof. Lina Zhao, City University of Hong Kong, Hong Kong China*	
15:00 – 15:30	**INVITED TALK 9: Multicontinuum Homogenization and its Application** *Prof. Wing Tat Leung, City University of Hong Kong, Hong Kong China*	
15:30 - 16:00	**Coffee Break**	
16:00 - 16:30	**INVITED TALK 10: Euler's elastica-based Cartoon-smooth-texture image decomposition**	Y4302

	Prof. Roy He, City University of Hong Kong, Hong Kong China
16:30 – 17:00	**INVITED TALK 11: An energy-conserving Fourier particle-in-cell method with asymptotic-preserving preconditioner for Vlasov-Ampere system with exact curl-free constraint**
	Ms. Zhuoning Li, Shanghai Jiao Tong University, China
17:00 - 17:30	**INVITED TALK 12: A sparse grid wavelet Galerkin method for 3-D static piezoelectric equations**
	Mr. Likun Qiu, Shanghai Jiao Tong University, China
18:00 – 20:00	**Conference Banquet (By Invitation)** City Chinese Restaurant

CityU-SJTU Joint Workshop 2024
Day 2, 24 November 2024, Sunday

HK Time		Venue
9:00 – 9:30	**INVITED TALK 13: Derivative-free methods for nonlinear least squares problems** *Prof. Jinyan Fan, Shanghai Jiao Tong University, China*	Y4302
9:30 – 10:00	**INVITED TALK 14: The theory of parameter condensation in neural networks** *Prof. Tao Luo, Shanghai Jiao Tong University, China*	
10:00 – 10:30	**INVITED TALK 15: Efficient quantum Gibbs samplers** *Prof. Bowen Li, City University of Hong Kong, Hong Kong China*	
10:30 - 11:00	**Coffee Break**	
11:00 – 11:30	**INVITED TALK 16: Kinetic-fluid multi-phase flow system with random inputs in the fine particle regime** *Prof. Yiwen Lin, Shanghai Jiao Tong University, China*	Y4302
11:30 - 12:00	**INVITED TALK 17: Newton's method and its hybrid with machine learning for Navier-Stokes Darcy models Discretized by mixed element methods** *Mr. Haohao Wu, Shanghai Jiao Tong University, China*	
12:00 - 12:30	**INVITED TALK 18: Simultaneously Cloaking Electric and Hydrodynamic Fields via Electro-osmosis** *Dr. Zhiqiang Miao, City University of Hong Kong, Hong Kong China*	
12:30 - 14:00	**Lunch Break**	City Chinese Restaurant