

Workshop Schedule

Date: April 1, 2019		Location: Jinse Hall (2nd Floor)
08:00-08:30	Opening Ceremony (Welcome Speech/ Group Photo)	
08:30-09:20	Wei qiu Zhu: Nonlinear stochastic dynamics and control of quasi-Hamiltonian systems	Chair:
09:20-10:10	Tomasz Kapitaniak: Traveling chimera states for coupled pendula	
10:10-10:30	Coffee Break	
10:30-11:20	Wei Lin: Control of complex networks: feedbacks, time delays, and randomness	Chair:
11:20-12:10	Celso Grebogi: Predicting and controlling tipping points in networked systems	
12:10-13:40	Lunch (1st Floor)	
13:40-14:30	Haipeng Ren: Why and how the chaos properties can be used to improve the wireless communication performance?	Chair:
14:30-15:20	Flavio Seno: Brownian yet non-Gaussian diffusion in heterogeneous media	
15:20-16:10	Bjoern Schmalfuss: Synchronization of stochastic lattice (and/or spd) equations	Chair:
16:10-18:30	Activitiy	
18:30-20:00	Dinner (1st Floor)	

Date: April 2, 2019		Location: Jinse Hall (2nd Floor)
08:10-09:00	YangQuan Chen: Optimal stochasticity entails fractional calculus that enlightens big data and machine learning research	Chair:
09:00-09:50	Frank Hellmann: Powergrid questions for oscillator networks: Stochastic spreading in networked systems and nonlinear stability	
09:50-10:30	Coffee Break/Poster	
10:30-11:20	Jianbing Chen: PDEM-based uncertainty quantification and stochastic dynamic response of nonlinear systems	Chair:
11:20-12:10	Sudeshna Sinha: Chaotic attractor hopping yields logic operations	
12:10-13:40	Lunch (1st Floor)	
13:40-14:30	Liang Huang: Relativistic quantum chaos	Chair:
14:30-15:20	Gianni Pagnini: Centre-of-mass like superposition of Ornstein-Uhlenbeck process: a pathway to non-autonomous stochastic differential equations and to fractional diffusion	
15:20-16:10	Fengyu Wang: Coupling and applications	
16:10-16:30	Coffee Break	
16:30-17:20	Yang Tang: Coordination control for hybrid nonlinear multi-agent systems	Chair:
17:20-18:10	Ralf Metzler : Anomalous diffusion in membranes	
18:10-20:30	Banquet (2nd Floor)	

Date: April 3, 2019		Location: Jinse Hall (2nd Floor)
08:10-09:00	Xiaofan Li: Numerical simulations of macroscopic quantities for stochastic differential equations with α -stable processes	Chair:
09:00-09:50	Alexey Zaikin: The Brain as a complex network of networks: where is intelligence and consciousness?	
09:50-10:30	Coffee Break/Poster	
10:30-11:20	Syamal K. Dana: Sudden transition to large amplitude oscillation: routes to extreme events	Chair:
11:20-12:10	Wen-An Yong: CDF---A theory of mathematical modeling for irreversible processes	
12:10-14:00	Lunch (1st Floor)	
14:00-19:00	Activity	
19:00-20:30	Dinner (1st Floor)	

Date: April 4, 2019		Location: Jinse Hall (2nd Floor)
08:10-09:00	Guanrong Chen: Further on equilibria and attractors of 3D chaotic systems	Chair:
09:00-09:50	Jae-Hyung Jeon: Lateral anomalous diffusion in lipid bilayers: stochasticity, molecular crowding, and the breakdown of the Saffman-Delbrück theory	
09:50-10:30	Coffee Break/Poster	
10:30-11:20	Yuzuru Inahama: Asymptotic expansion of the density for hypoelliptic rough differential equation	Chair:
11:20-12:10	Xianbin Liu: On the dynamical behaviors of several nonlinear stochastic systems based on the large derivation theory	
12:10-13:40	Lunch (1st Floor)	
13:40-14:30	Ulrike Feudel: Extreme events in delay-coupled FitzHugh-Nagumo oscillators	Chair:
14:30-15:20	Gamal Mahmoud: Complex modified projective synchronization of two chaotic complex nonlinear systems	
15:20-15:40	Coffee Break	
15:40-16:30	Jun Jiang: Enhance capability and efficiency of cell mapping method through parallel computing and evolving probabilistic vector	Chair:
16:30-17:20	Jürgen Kurths: Complex network approach reveals global pattern of extreme-rainfall teleconnection	
17:20-18:00	Discussion	
18:00-20:00	Dinner (1st Floor)	