

8/25(수)			
2:00-2:10	여는 말 - 김병준(성균관대학교)		
통계역학1 세션 좌장: 노재동(서울시립대학교)			
2:10-2:20	박 선규	POSTECH	Bayesian inference of Levy walks based on a hidden Markov model
2:20-2:30	Durang Xavier	POSTECH	Power-law distributions under finite time window and limited resolution: an exact theory
2:30-2:40	KIM Gilhan	서울대학교	Bias-variance tradeoff in unsupervised learning: an information-geometric approach
2:40-2:50	gwon gangyong	전북대학교	Understanding a path to synchronization as cluster aggregation using Smoluchowski equation
2:50-3:00	배 영경	KAIST	Attaining entropy production and dissipation maps from Brownian movies via neural networks
3:00-3:10	Kim Dong-Kyum	KAIST	Neural estimator for entropy production in stochastic systems with odd-parity variables
3:10-3:20	Joo Sungmin	POSTECH	Generalized Langevin equation for the viscoelastic systems violating the fluctuation-dissipation theorem
3:20-3:30	안 재홍	POSTECH	Heterogeneous diffusion described by Telegrapher's equation
3:30-3:50	휴식		
통계역학2 세션 좌장: 허미순(조선대학교)			
3:50-4:00	Oh Yongjae	서울대학교	Effects of the self-propulsion parity on the performance of an active heat engine
4:00-4:10	김 기원	서울대학교	Generic negative drag and symmetry-breaking transitions in active fluids
4:10-4:20	홍 대성	UNIST	Field-Theoretic Simulation of Order-to-disorder Transition of Block Copolymers in Thin Films
4:20-4:30	임 재관	UNIST	High-resolution neutron and X-ray imaging see thorough evaporating droplets
4:30-4:40	Kook Joongjae	충북대학교	Convolutional variational graph autoencoder for the clustering of material properties
4:40-4:50	홍 성표	GIST	Finite-size scaling analysis of the Lee-Yang zeros of the 2D XY model
4:50-5:00	김 동규	GIST	Probing the quantum criticality of antiferromagnetic long-range transverse-field Ising chain with variational neural-network quantum states
8/26(목)			
복잡계/연결망 세션 좌장: 고광일(고려대학교)			
10:00-10:10	Yang Younghwa	고려대학교	Critical behaviors of modified power-law-connected percolation
10:10-10:20	Kim Cook Hyun	서울대학교	Spectral Density of Scale Free Network and Effective Laplacian Matrix
10:20-10:30	Kim Minsuk	경희대학교	Control of epidemic spreading on layered networks
10:30-10:40	Jhun Bukyoung	서울대학교	Efficient vaccination strategies to minimize the death toll in populations with heterogeneous fatality rate
10:40-10:50	최 호연	서울대학교	A hybrid percolation transition in a self-controlled system
10:50-11:00	Oh Soo Min	서울대학교	Machine learning algorithm for percolation phase transition in network
11:00-11:20	휴식		
11:20-11:30	곽 성현	고려대학교	Percolation in correlated signed complex networks
11:30-11:40	김 정호	고려대학교	Higher-order connectivity between hyperedges on hypergraphs
11:40-11:50	Roh Dahae	고려대학교	Growing scale-free hypergraph models
11:50-12:00	이 용선	서울대학교	Higher-order synchronization transitions on hypergraphs
12:00-12:10	이 종신	서울대학교	Synchronization of coupled oscillators in random hypergraphs
복잡계/사회경제세션 좌장: 육순형(경희대학교)			
2:00-2:10	YOON JINJOO	조선대학교	Nonlinear properties on social media: an empirical approach
2:10-2:20	Park A-young	조선대학교	Nontrivial Features of Connectedness of in the Financial Market
2:20-2:30	Mafwele Biseko	인하대학교	Analysis of Coupled Dynamic Model for Malaria Spreading between Human being and Mosquito with Infected Immigrants and Loss of Immunity
2:30-2:40	장 경환	한양대학교(ERICA)	Effectiveness of the vaccination and quarantine policy to suppress the spreading of COVID-19 (코로나-19 백신접종과 격리정책의 효율성)
2:40-2:50	손 경민	KAIST	Quantifying team chemistry in scientific collaboration
2:50-3:00	Kim Gwangsung	KAIST	Spontaneous emergence of music selectivity in a deep neural network trained for audio event recognition
3:00-3:10	하 승동	KAIST	Learning heuristics for Social learning with Reinforcement learning
3:10-3:20	권 용성	한양대학교(ERICA)	Urban traffic analysis through the correlated percolation of road networks
3:20-3:40	휴식		
3:40-3:50	박 지현	세종대학교	Decision-making through artificial neural network and evolution of cooperation in the Prisoner's dilemma game.
3:50-4:00	이 나현	세종대학교	Prisoner's dilemma in Predator-prey model
4:00-4:10	이 상현	부경대학교	Local stability of cooperation in a continuous model of indirect reciprocity
4:10-4:20	김 종훈	부경대학교	Democracy and political polarization in the National Assembly of Republic of Korea
4:20-4:30	김 민재	부경대학교	Successful social norms of indirect reciprocity beyond binary reputation
8/27(금)			
생물물리 세션 좌장: 박수찬(가톨릭대학교)			
10:00-10:10	박 영재	APCTP	Invasion and interaction determine diversity in an open evolving system
10:10-10:20	이 주희	APCTP	Selecting a microbial group of the desired composition in a simple model
10:20-10:30	Lim Roktaek	Hong Kong Baptist	Cost-Effective Circadian Mechanism: Rhythmic Degradation of Circadian Proteins Spontaneously Emerges without Rhythmic Post-Translational Regulation
10:30-10:40	Lee HyunWoo	인하대학교	Stability and selective extinction in complex mutualistic networks
10:40-10:50	임 찬	POSTECH	An exact theory for the force-extension relation of stiff polymers subject to the force toward an arbitrary direction.
10:50-11:00	Han HyeongTark	POSTECH	Anomalous diffusion of active Brownian particles attached to a wormlike chain.
11:00-11:20	휴식		
11:20-11:30	KIM Yeongjin	POSTECH	Diffusion dynamics of active Brownian particles in a polymer network.
11:30-11:40	강 원준	UNIST	Random Phase Approximation Calculation for Order-to-disorder Transition of Discrete Polymer Chain Model
11:40-11:50	정 현우	UNIST	Star-shaped Block Copolymers in Trench Confinement: Mean Field Prediction for Lamellar and Tube-like Nanostructures
11:50-12:00	Son Joowang	UNIST	Tracking of live particles and comparison with active Brownian particle models
12:00-12:10	Lee Jaehee	KAIST	Giant Charge Renormalization in Lipid Vesicles: Optical Bottle Study
12:10-12:20	닫는 말 - 이재성(KIAS)		