

워크숍 장소: 부경 컨벤션홀

	8월 18일 (월)	8월 19일 (화)	8월 20일 (수)	
8:00 ~ 9:00	이동	조식	조식	8:00 ~ 9:00
9:00~10:00		세션 3: 모빌리티 (좌장: 이미진)	세션 5: 경제사회물리 (좌장: 고광일)	9:00~9:50
10:00~10:20		쉬는시간	쉬는시간	9:50~10:10
10:20~12:20		세션 4: 통계역학/비평형계 (좌장: 천현명)	세션 6: 생물물리/능동물질 (좌장: 조용석)	10:10~12:20
12:20~13:00		점심식사	클로징	12:20~12:30
13:00~14:00			점심식사	12:30~14:00
14:00~14:20	등록/오프닝	Excursion: 아홉산숲	이동	14:00~
14:20~15:40	세션 1: 게임이론 (좌장: 김민재)			
15:40~16:00	쉬는시간			
16:00~18:00	세션 2: 네트워크/기계학습 (좌장: 이덕선)			
18:00~18:30	저녁식사 (더맛)			
18:30~		저녁만찬 (미래관 컨벤션홀)		

## 8월 18일 (월)

13:00~14:20

등록/오프닝

14:20~15:40	게임이론 (좌장: 김민재)
권은서	Discontinuous Transitions in Simplicial Public Goods Games on Hypergraphs
이나현	Human Sex Ratio Puzzle and the One-to-One Balance of the Last-Born Sex Ratio
김희정	The Role of Punishment in Indirect Reciprocity under Incomplete Reputation Identification
홍종원	Simple Mean-Field Approach to Indirect Reciprocity with Private Assessment
김도현	Structural Drivers of Altruism in Networked Evolutionary Games
김국영	Non-reciprocal Dynamics in a Rock-Paper-Scissors Vicsek Model: Emergence of Collective Patterns
채정훈	Effects of Initial Configurations on the Evolution of Cooperation in the Vicsek Game
Quang Anh Le	Response of Social Norms to Individual Differences in Error-Proneness

16:00~18:00	네트워크/기계학습 (좌장: 이덕선)
손강민	Roles of Geometric Correlation, Edge Overlap, and Spectral Dimension in Mutual Percolation
조창희	Deffuant-Weisbuch Model on Hypergraphs
김지혜	Nested Hyperedges and Interplay between Simple and Higher-Order Contagion
김가현	Quantifying Network Embedding Inconsistency: Exploring Embedding Landscape Beyond Visualization
정연수	Analyzing a Flavor Network of Cocktail Ingredients Based on the Base Liquor
최호연	Deep Graph Generation under Multiple Constraints
세션 중 쉬는시간 (10분)	
김종훈	Relationship Between Community Structure and Stability in Kuramoto Oscillator Networks
최윤주	How Single Transmission Line Addition Affects Grid Stability Across Different Network Topologies
박상준	Enhancing Dynamic Stability of the Power Grid Using AI Control Switches
배재용	Universality in Neural Network Dynamics from Low-Order Moment Homogenization
송영우	Mechanistic Insights into How LLMs Learn Physics In-Context

18:00~

저녁식사 (더맛)

## 8월 19일 (화)

8:00~9:00

조식

9:00~10:00

모빌리티 (좌장: 이미진)

정정훈	Modeling Multistability and Hysteresis in Urban Traffic Dynamics
남윤우	Percolation Analysis of Spatiotemporal Distribution of Population in Seoul and Helsinki
강동원	Characterizing and Modeling the Dynamics of Individual Vehicles Using Large-Scale Vehicle Trajectory Data
김성구	Revealing Universality Classes in the Spatiotemporal Distribution of Urban Traffic Congestion through Percolation Analysis
김규인	Topological Directedness Reveals Daily Rhythm of Urban Mobility
주경호	From Local Lockdowns to Endemic Recovery: A Card-Transaction Gravity Analysis of Regional Consumption

10:00~10:20

쉬는시간

10:20~12:20

통계역학/비평형계 (좌장: 천현명)

한형탁	Unraveling Thermodynamic Uncertainty in Non-Markovian Dynamics Suffering Aging
방세훈	Harnessing Bath Memory for Efficient Work Extraction in Active Information Engines
김은서	Origin of System-Specific Information Transfer Patterns
김화량	Identifying Synchronization Transitions via von Neumann Entropy
오용재	Rare Events and the Violation of Second Law: A Large Deviation Analysis of Stochastic Information Flow
조두형	Decomposing Sum of Single-step Transfer Entropy in Linear Langevin Dynamics and Its Relation to Entropy Production

세션 중 쉬는시간 (10분)

김윤수	Entanglement Phase Transition with a Fixed Measurement Rate
김지철	A Neural-Network Quantum State Study of Long-Range Ising Chain
박성순	초기 Scalar Field 분포 및 상호작용 구조가 Persistence에 미치는 영향
김동빈	Self-Organized Criticality under Varying Excitatory / Inhibitory Ratio
정태우	Diffusion Processes Relaxing to a Target Stationary Probability Density Function via Time-Dependent Resetting

12:20~14:00

점심식사

14:00~18:30

Excursion (아홉산숲)

18:30~

저녁만찬 (미래관 컨벤션홀)

## 8월 20일 (수)

8:00~9:00

조식

9:00~9:50

경제사회물리 (좌장: 고헌일)

서연지

How Wikipedia Article Connections Influence Editing Patterns

곽호성

Quantifying Structure of Academic Discipline using Wikidata Graph Embedding

허재석

Wealth Condensation Transition in Bouchaud–Mézard Model on Erdős–Rényi Network through Gini Index

신준현

Factor-Conditional GANs for Equity Return Prediction: Empirical Evidence from the KOSPI

김재성

An Analysis of the High-Frequency Stylized Facts in the Korean Cryptocurrency Market

9:50~10:10

쉬는시간

10:10~12:20

생물물리/능동물질 (좌장: 조용석)

정강은

Crystallization of Chiral Active Brownian Particles at Low Densities

이영규

Physical Constraints on the Rhythmicity of the Biological Clock

김영진

Active Barrier Crossing in a Continuous Quenched Trap Model

임찬

Diffusion Dynamics of Protein–DNA Co-condensate

박우준

Dopamine-Modulated STDP in Pavlovian Learning: LTD-to-LTP Transition and Learning Constraints

이동호

Fluctuation in Active Particle Yields Fickian Yet Non-Gaussian

세션 중 쉬는시간 (10분)

권의준

Fluctuation-Response Relations in Non-equilibrium System: From Theory to F1-ATPase

김필권

Exploring the Regulatory Mechanisms of Immunity and Tolerance in the Mucosal Immune System through Computational Modeling

김민식

Analysis of Cells Motility Using GMM-HMM Method

강원준

Quantifying Order-to-Disorder Transition of Block Copolymer Blends via Langevin Field-Theoretic Simulations Incorporated with Well-Tempered Metadynamics

정인회

A Computational Model of Neuromodulator-Driven Cell Assembly Formation

박규은

Intermittently Trapped Fractional Brownian Motion and Fractional Langevin Equation Motion

12:20~12:30

클로징

12:30~14:00

점심식사