The 19th KIM-JIM Symposium

Conference Hall (3F), October 25 (Thu), 09:00~17:30

Time	Session	Speaker	Affiliation	Title	Chair Person	
09:00~09:10	Welcome Address KIM & JIM Presidents					
09:10~09:35	Morning Session	Hyoung Seop Kim	POSTECH	An Efficient Machine Learning Approach to Establish Virtual Structure-Property Linkages	Seog-hyeon Ryu (Doosan), Yuhki Tsukada (Nagoya Univ.)	
09:35~10:00		Yoshitaka Adachi	Nagoya Univ.	Steel Informatics		
10:00~10:25		Seungwu Han	Seoul National Univ.	Classical Neural Network Potential Learning DFT Results: A New Frontier in Material Science		
10:25~10:50		Motoki Shiga	Gifu Univ.	Statistical Machine Learning for Spectrum Image Data Analysis		
10:50~11:15		Sang Soo Han	KIST	Design of Novel Catalysts: From First-Principles to Machine-Learning		
11:15~11:40		Teruyasu Mizoguchi	Univ. of Tokyo	Machine Learning for Interface and Spectrum		
11:40~12:05		Youngsoo Yoo	KIMS	Development of Superalloy Using Artificial Neural Network		
12:05~13:00	12:05~13:00 Lunch Break (Grand Ballroom (2F))					
13:00~13:25	Afternoon Session(1)	Kee-Sun Sohn	Sejong Univ.	Deep Learning Technologies for Materials Science	Youngsoo Yoo (KIMS)	
13:25~13:50		Yoichi Takagishi	Kobelco Research Institute	Machine Learning Approaches for Designing Meso-Scale Structure of Porous Materials		
13:50~14:15		Kentaro Kutsukake	RIKEN	Adaptive Mapping for Quick Material Evaluation		
14:15~14:40		Nam Hoon Goo	Hyundai-Steel	Generative Adversarial Network Model for the Generation of Microstructures Supervised by Phase Field Model		
14:40~15:00	0 Coffee Break					
15:00~15:25	Afternoon Session(2)	Yuhki Tsukada	Nagoya Univ.	Prediction of Martensite Microstructure in Steel by Phase-Field Simulation and Machine Learning	Yoon Suk Choi (Pusan National Univ.), Junya Inoue (Univ. of Tokyo)	
15:25~15:50		Juseok Kang	POSCO	Prediction of Tensile and Charpy Impact Properties by Machine Learning		
15:50~16:15		Junya Inoue	Univ. of Tokyo	Data-Driven Approach to Predicting Microstructure and Properties of Polycrystalline Materials		
16:15~16:40		B.O.Kong	Doosan Heavy Industries	Artificial Neural Network Data Modeling for Mechanical and Physical Properties in Heat Resistance Steels		
16:40~17:05		Manabu Enoki	Univ. of Tokyo	Prediction of Fatigue Behavior in Steels by Data Driven Approach		
17:05~17:30		Seog-hyeon Ryu	Doosan Heavy Industries	Al Applications and Business Strategies in the Materials Industries		