

**I-1 Topic: Artificial Intelligence for Industrial Applications****Location: Main Building Room 110****Time: 13:00 – 14:30****Session Chair: Professor Tzu-Yen Hong**

<b>ID</b>	<b>Title</b>	<b>Author</b>
5130	The Graph Neural Network–Based Dynamic Routing Algorithm for Overhead Hoist Transport Vehicles in Semiconductor Fabrication Plants	Jaeho Lee & Young Jae Jang
5987	Application of Machine Learning to Maritime Safety	Wu-Hsun Chung, Yi-Yang Hung & Chien-Chung Yuan
5028	Maintenance Time Reduction for Semiconductor Manufacturing Tools	Sang-Hyun Cho, Jeongsun Ahn, Duyeon Kim, Dain Ham, Hongyeon Kim & Hyun-Jung Kim
8445	UNISON Framework for Sustainability and an Illustration of PCB Company	Ju-Chien Chien, Yu-Quan Tseng, and Chen-Fu Chien
8750	Industrial Product Demonstration in Metaverse using XR Technologies	Dawi Karomati Baroroh, Jie-Ke Pan, Shau-Min Chen & Chih-Hsing Chu

**I-2 Topic: Data-Driven Optimization and Analytics****Location: Main Building Room 111****Time: 13:00 – 14:30****Session Chair: Professor You-Jin Park**

<b>ID</b>	<b>Title</b>	<b>Author</b>
6198	A Novel Grid-based Algorithm for Decoder Routing in Semiconductor Design	Hongyeon Kim, Jeongsun Ahn, Chaeyoung Kim & Hyun-Jung Kim
7084	A Conditional Recurrent Autoencoder for Anomaly Detection in Overhead Hoist Transport Systems According to their Operational State	Jiyeon Myung & Young Jae Jang
9980	Applying Mathematical Programming for Master Production Scheduling in Multi-site Semiconductor Manufacturing- A Case Study of Company V	Chi-Cheng Lin, Yung-Chia Chang, Jonathan Chang, En-Cheng Lin, Yu-Wen Wang, Hsuan Yen & Chi-Wei Hu
5070	Material Quality System in Solar Cell Manufacturer	Chia-Yen Lee, Yung-Lun Lin, Shu-Hung Lin & Taho Yang
9989	A Novel Hybrid Under-Sampling for Semiconductor Wafer Defect Bin Classification	You-Jin Park, Rong Pan, Douglas C. Montgomery, Kyunghee Joo

**II-1 Topic: Optimization for Smart Manufacturing****Location: Main Building Room 110****Time: 14:50 – 16:20****Session Chair: Professor Che-Wei Chou**

<b>ID</b>	<b>Title</b>	<b>Author</b>
3831	A Comprehensive Survey of Metaheuristic Algorithms Applying in Mechanical Design Optimization Problems	Hsu-Hsing Chen & Feng-Cheng Yang
5116	Storage Assignment Problem for Automated Warehouse in Manufacturing Systems	Sungwook Jang & Young Jae Jang
6224	Multi-objective based Simplified Swarm Optimization for Container Loading Optimization with Practical Constraints	Truong Hoang Linh & Chen-Fu Chien
9359	Education System for Automated Material Handling System Design with Digital Twin and LEGO Robotics	Young Jae Jang, Ye Bin Kim, Jeong Jun Lee & Chae Won Lim
6009	An Artificial Neural Network Meta-model for Resource Allocation of Vehicle Fleets in the Automated Material Handling System	Che-Wei Chou, Wei-Cheng Chiu, Yu-Zhong Kang, Yao-Ting Chiang & Chia-Yu Lin

**II-2 Topic: Modeling and Decision Analysis****Location: Main Building Room 111****Time: 14:50 – 16:20****Session Chair: Professor Chia-Yu Hsu**

<b>ID</b>	<b>Title</b>	<b>Author</b>
1540	Discrete Lot-Sizing Problem of Single Machine based on Reinforcement Learning Approach	Tae Jong Park & Young Jae Jang
0141	Strategic Dynamic Pricing Optimization by Thompson Sampling and Stochastic Programming	Tran Hong Van Nguyen, Chen-Fu Chien, Hsuan-An Kuo & Kang-Ting Ma
2571	Exploring Compatibility of Information Services	Cheng-Han Wu, Pandu Dwi Luhur Pambudi & Yu-Wei Huang
9904	Incumbent sales strategy in the presence of strategic consumers	Cheng-Han Wu, Netnapha Chamnisampan & Yan-Tong Liao
7759	Extraction of Classification/Regression-qualified and Explainable Features for Deep Classifier/Regressor Modeling	Yun Chu & Jakey Blue