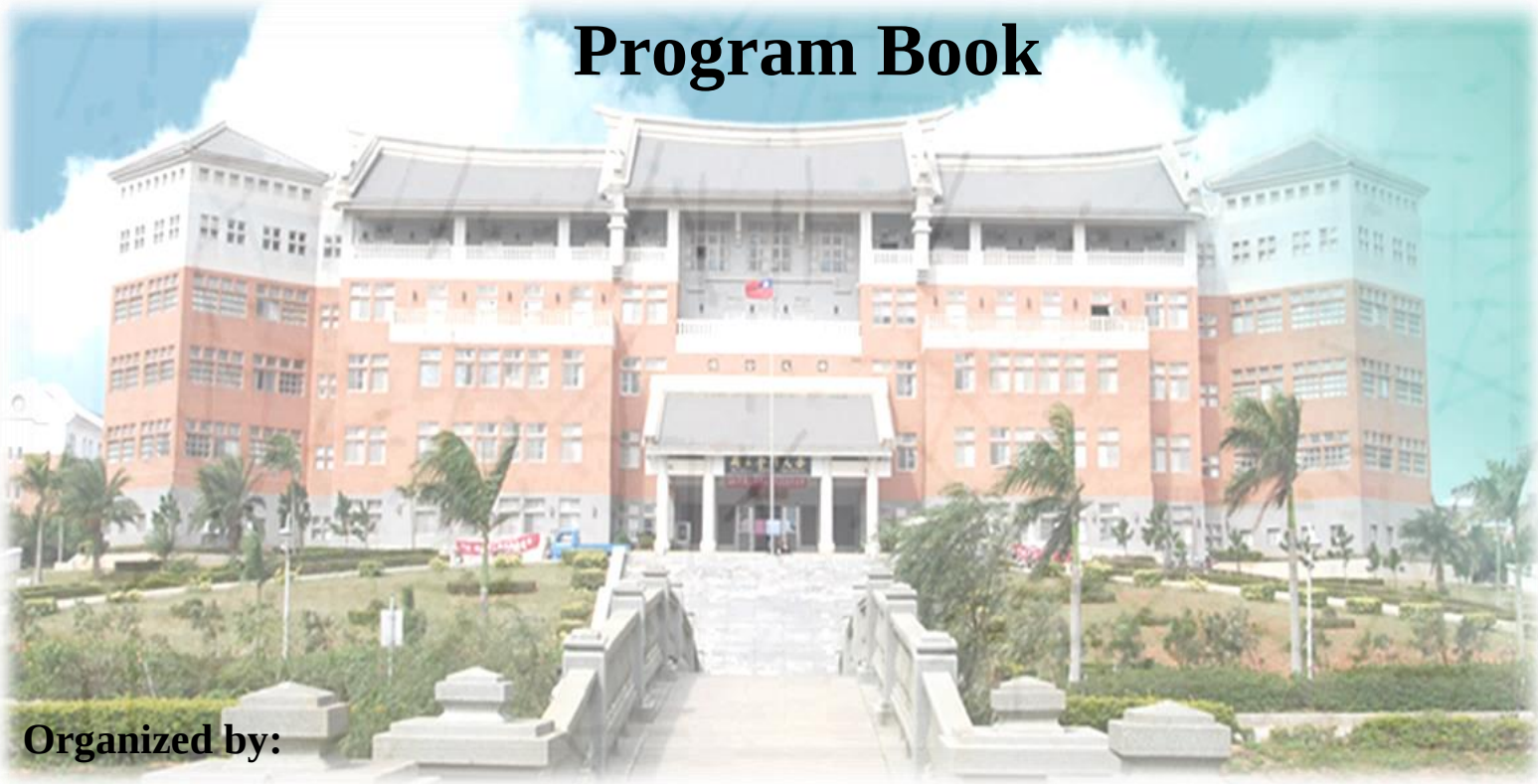
ISMI 2022

International Symposium on Semiconductor Manufacturing Intelligence

2022 International Symposium on
Semiconductor Manufacturing Intelligence (ISMI 2022)
National Quemoy University, Kinmen, November 11-13, 2022

Program Book



Organized by:

National Quemoy University & Chinese Institute of Industrial Engineers

Co-organized by:

Society for Excelling Enterprises and Decisions (SEED)
Semiconductor Technologies Empowerment Partners (STEP) Consortium
NTHU-TSMC Center for Manufacturing Excellence
Dept. of Industrial Engineering and Management of NQU
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Sponsored by:

National Science and Technology Council (NSTC)
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IEEE Technical Committee on Semiconductor Manufacturing Automation

Contents

Welcome Message

Welcome to Kinmen, Taiwan. It is our great privilege to hold the 2022 International Symposium on Semiconductor Manufacturing Intelligence (ISMI2022). ISMI2022 aims to disseminate recent theoretical and methodological developments, significant technical applications, and case studies in semiconductor and high-tech manufacturing. Following the great success of ISMI in Taiwan (2012), Shanghai (2013), Taiwan (2014), South Korea (2015), Taiwan (2016), and China (2019). ISMI2022 in Taiwan is going to serve to enhance collaborations among academia and industries. Under the main theme of Industry 4.0, the objective of the ISMI2022 aims to provide a platform to foster the exchange of research developments and latest practice on automation science & engineering, evolutionary algorithms, data mining and big data analytics, manufacturing informatics, modeling and decision analysis, and operation management for semiconductor and high-tech manufacturing to enhance collaborations among academia and industries. Furthermore, the involved research and applications are not limited to conventional manufacturing domains and can be extended to manufacturing-based services as well as emerging areas such as green supply chains, logistics, and business analysis and optimization.

This event is co-organized by National Quemoy University (NQU), Chinese Institute of Industrial Engineers (CIIE), Society for Excelling Enterprises and Decisions (SEED), Semiconductor Technologies Empowerment Partners (STEP) Consortium, and NTHU-TSMC Center for Manufacturing Excellence, Dept. of Industrial Engineering and Management of NQU, Dept. of Industrial Management of National Taiwan University of Science and Technology, Dept. of Business Administration of Soochow University, and Institute of Industrial Engineering, National Taiwan University.

This event is co-sponsored by the Ministry of Science and Technology, Ministry of Economic Affairs, IEEE Technical Committee on Semiconductor Manufacturing Automation, Taiwan Semiconductor Industry Association (TSIA), and Semiconductor Equipment and Materials International (SEMI). We would like to thank distinguished keynote speakers Young Jae Jang, Professor of Korea Advanced Institute of Science and Technology (KAIST); Lars Mönch, Professor of University of Hagen; Stéphane Dauzère-Pérès, Professor of Center of Microelectronics in Provence (CMP) of Mines Saint-Etienne; Andrew Liu, Senior Solution Architect of Nvidia; Professor Yosi Lahad, Israel Intelligent Robotics Center (IIRC) Chair, and Pok Wei Fong, Professor of Universiti Tunku Abdul Rahman.

Finally, we would like to thank all of the participants and organizers for their contributions in this successful joint event in Kinmen, Taiwan.

Chen-Fu Chien, Ph.D.
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President-Elect, Asia Pacific Industrial Engineering & Management Systems Society (APIEMS)
Tsing Hua Chair Professor & Executive Vice President, National Tsing Hua University, Taiwan

Chia-Yu Hsu, Ph.D. & ***Ping-Chen Chang*** Ph.D.
ISMI2022 Program Committee Chair

November 11th - 13th, 2022

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Schedule

Day 1:	**Friday, 11 November**
09:30-10:00	Registration (Tan Kai Yong Conference Hall)
10:00-10:10	Opening **(Tan Kai Yong Conference Hall)**
10:10-11:10	**Keynote Speech I** **(Tan Kai Yong Conference Hall)** Industry Case: Operation Innovation in Semiconductor Fab with AI and Digital Twin *Professor Young Jae Jang, Korea Advanced Institute of Science and Technology (KAIST)*
11:10-12:10	**Keynote Speech II** **(Tan Kai Yong Conference Hall)** Infrastructure for Assessing the Performance of Planning Approaches for Semiconductor Supply Chains *Professor Lars Mönch, University of Hagen*
12:10-13:40	**Lunch & Break** **)**
13:40-14:30	**Keynote Speech III** **(Tan Kai Yong Conference Hall)** AI Empowering ERA of Human-Robot Integration: ISRAEL smart Robotics Trends *Professor Yosi Lahad, Israel Intelligent Robotics Center (IIRC) Chair, Cooperation Committee* Malaysia Artificial Intelligence Roadmap *Professor Pok Wei Fong* *Deputy Dean of Faculty of Accountancy and Management, Universiti Tunku Abdul Rahman*
14:30-15:00	**Tea Break**
15:00-15:50	**Keynote Speech IV** **(Tan Kai Yong Conference Hall)** GPU Parallel Computing for Smart Manufacturing and Digital Transformation *Dr. Andrew Liu, NVIDIA*
15:50-16:40	**Keynote Speech V** **(Tan Kai Yong Conference Hall)** Modeling and Solving Complex Job-Shop Scheduling Problems *Professor Stéphane Dauzère-Pérès,* *Center of Microelectronics in Provence (CMP) of Mines Saint-Etienne*
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	Session II-1 Optimization for Smart Manufacturing (Main Building Room 110) / **Session II-2** Modeling and Decision Analysis (Main Building Room 111)
14:30-14:50	Tea Break
16:40-17:10	Closing Ceremony
17:30-20:00	**Farewell Banquet** **(Ying Chun Ge Chinese Restaurant 盈春閣)**
Day 3:	**Sunday, 13 November**
09:00-12:00	**Industry & Local Cultural Tour**

Program

November 11th (Friday)

09:30 - 10:00 Registration (Tan Kai Yong Conference Hall)

10:00 – 10:10 Opening (Tan Kai Yong Conference Hall)
Speaker: Chen-Fu Chien,
President, Chinese Institute of Industrial Engineers (CIIE)
President-Elect, Asia Pacific Industrial Engineering & Management Systems Society (APIEMS)
Tsing Hua Chair Professor & Executive Vice President, National Tsing Hua University, Taiwan

10:10 – 11:10 Keynote Speech I (Tan Kai Yong Conference Hall)
Title: Industry Case: Operation Innovation in Semiconductor Fab with AI and Digital Twin
Speaker: Young Jae Jang,
Professor, Korea Advanced Institute of Science and Technology (KAIST), South Korea
Founding Director, Shinsung-KAIST AI AMHS Research Center
Session Chair: Jei-Zheng Wu, Distinguished Professor, Soochow University, Taiwan

11:10 – 12:10 Keynote Speech II (Tan Kai Yong Conference Hall)
Title: Infrastructure for Assessing the Performance of Planning Approaches for Semiconductor Supply Chains
Speaker: Lars Mönch, Professor, University of Hagen, Germany
Session Chair: Jei-Zheng Wu, Distinguished Professor, Soochow University, Taiwan

12:10 – 13:40 Lunch

13:40 – 14:30 Keynote Speech III (Tan Kai Yong Conference Hall)
Title: AI Empowering ERA of Human-Robot Integration: ISRAEL smart Robotics Trends
Speaker: Yosi Lahad, Israel Intelligent Robotics Center (IIRC) Chair, Cooperation Committee, Israel
Title: Malaysia Artificial Intelligence Roadmap
Speaker: Pok Wei Fong, Professor, Deputy Dean of Faculty of Accountancy and Management, Universiti Tunku Abdul Rahman
Session Chair: Ying-Chyi Chou, Tunghai University, Taiwan

14:30 – 15:00 Tea Break

15:00 – 15:50 Keynote Speech IV (Tan Kai Yong Conference Hall)
Title: GPU Parallel Computing for Smart Manufacturing and Digital Transformation
Speaker: Andrew Liu, Senior Solution Architect, Nvidia
Session Chair: Chia-Yu Hsu, Professor, National Taiwan University of Science and Technology, Taiwan

15:50 – 16:40 Keynote Speech V (Tan Kai Yong Conference Hall)

Title: Modeling and Solving Complex Job-Shop Scheduling Problems

Speaker: Stéphane Dauzère-Pérès, Professor, Center of Microelectronics in Provence (CMP) of Mines Saint-Etienne, France

Session Chair: Jakey Blue, National Taiwan University, Taiwan

November 12th (Saturday)

12:00 – 13:00 Lunch

13:00 – 14:30 Technical Sessions 1

13:00 – 14:30 Session A1 (Main Building Room 110, 1F)

Topic: Artificial Intelligence for Industrial Applications

Session Chair: Tzu-Yen Hong, National Taipei University of Technology, Taiwan

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
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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

13:00 – 14:30 Session I-2 (Main Building Room 111, 1F)

Topic: Artificial Intelligence for Industrial Applications

Session Chair: You-Jin Park, National Taipei University of Technology, Taiwan

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
Jiyoon 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
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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

14:50 – 16:20 Session II-1 (Main Building Room 111, 1F)

Topic: Modeling and Decision Analysis
Session Chair: Chia-Yu Hsu, National Taiwan University of Science and Technology, Taiwan

1540 Discrete Lot-Sizing Problem of Single Machine based on Reinforcement Learning Approach
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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

16:40-17:10 Closing Ceremony (Yang Subin Lecture Hall 圖資大樓 楊肅斌演講廳)

17:30-20:00 Farewell Banquet (Ying Chun Ge Chinese Restaurant 盈春閣)

November 13th (Sunday)

09:00 – 12:00 Poster & Industry & Local Cultural Tour

Keynote Speech

Keynote Speech (I)

Industry Case:
Operation Innovation in Semiconductor Fab with AI and Digital Twin

Young Jae Jang
Korea Advanced Institute of Science and Technology (KAIST)

DR. Young Jae Jang received his Ph.D. degree in mechanical engineering from the Massachusetts Institute of Technology (MIT), and a double M.S. degree in mechanical engineering and operations research from MIT. He received a B.S. degree in aerospace engineering from Boston University in 1997.

He is currently an Associate Professor in the Industrial and Systems Engineering Department at the Korea Advanced Institute of Science and Technology (KAIST), South Korea. His research "AI based Smart Factory Solution," was selected a Top-10 Research of KAIST 2019.

He is also the Director of the Synustech-KAIST AI AMHS Research Center, and also the founder of DAIM Research Ltd., a company, spin-off of KAIST, providing AI based smart factory solutions. Before he joined KAIST, he worked as a senior engineer in Micron Technology, US.

Dr. Jang is also currently an Associate Editor of Computers & Industrial Engineering and Associate Editor of IEEE Transactions on Automation Science and Engineering.

Keynote Speech (II)

Infrastructure for Assessing the Performance of Planning Approaches for Semiconductor Supply Chains

Lars Mönch
Professor of University of Hagen, Germany

LARS MÖNCH is Professor in the Department of Mathematics and Computer Science at the University of Hagen, Germany. He received a master's degree in applied mathematics and a Ph.D. in the same subject from the University of Göttingen, Germany. His current research interests are in simulation-ba¬sed production control of semiconductor wafer fabrication fa¬cilities, applied optimization and artificial intelligence appli¬ca¬tions in manufacturing, logistics, and service operations. He is a member of GI (German Chapter of the ACM), GOR (German Operations Research Society), and INFORMS. Currently, Prof. Mönch is a senior editor for the IEEE Transactions on Automation Science and Engineering and an Associate Editor for the European Journal of Industrial Engineering, Business & Information Systems Engineering, IEEE Robotics and Automation Letters, Journal of Simulation, IEEE Transactions on Semiconductor Manufacturing, and RAIRO – Operations Research.

Keynote Speech (III)

(1) AI Empowering ERA of Human-Robot Integration: ISRAEL smart Robotics Trends
&
(2) Malaysia Artificial Intelligence Roadmap

ABSTRACT

We have seen in the last few years a growth in the number of robotics companies and expansion of the segments that robotics is employed at.

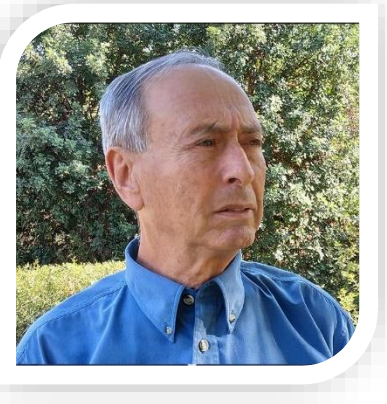
There is growing opportunity to use Intelligent Robotics in all walks of life such as service (restaurants, hospitality, airport), health, rehab, construction , agritech , logistics among others.

It seems that the Robotics ecosystem has been developed and matured - there are more available 'building blocks', therefore not each company has to develop many components from scratch. This contributes to shortening the time of product development, and reduces the cost of products.

In addition, the functionality of Robotic systems has been improved (mainly by combining Robotics with AI to better fit the product to specific use and user), also the quality of products has been enhanced, and we encounter much greater acceptance of users to engage with Robotic devices (including Collaborative Robots - Cobots). The Human Robot Interaction [HRI] plays a growing role in the Intelligent System, including emotion and behavioral detection. HRI also presents a large challenge to the AI/Robotics community.

The aggregation of all the above dynamics expands and augments the Human capabilities while positioning the industry in a new turning point, which potentially allows significant expansion of Intelligent Robotics use in multitude segments and will have substantial impact on the way we live, work, learn and enjoy.

We also see more collaboration between industry and academia and research institutes. Under the theme of 'co-innovation', The Israel Intelligent Robotics (IiR) is looking for and welcoming collaboration with players in other countries.



Yosi Lahad
Israel Intelligent Robotics Center (IIRC) Chair

Pok Wei Fong
Universiti Tunku Abdul Rahman

Keynote Speech (IV)

GPU Parallel Computing for Smart Manufacturing and Digital Transformation

DR. ANDREW LIU is a senior data scientist at NVIDIA, assist customers in building innovative solutions based on NVIDIA technology. Andrew has 10 years of experiences in computer software engineering, machine learning. His research interests are in the area of applying machine learning algorithms to solve real world problems. Prior to NVIDIA, Andrew was a machine learning engineer at Foxconn. He took the lead of the analytical team, developed various kinds of predictive modeling projects centered around manufacturing processes, including defect inspection and predictive maintenance, etc. During Ph.D. program, he has worked as a visiting scholar at Los Alamos National Laboratory's Bio Science Team, working on Human and Environmental Microbiome Projects.

Andrew Liu, NVIDIA

Keynote Speech (V)

Modeling and Solving Complex Job-Shop Scheduling Problems

Stéphane Dauzère-Pérès
Center of Microelectronics in Provence (CMP) of Mines Saint-Etienne

STÉPHANE DAUZÈRE-PÉRÈS is Professor at Mines Saint-Etienne in its site of Gardanne, France, and Adjunct Professor at BI Norwegian Business School, Norway. He received the Ph.D. degree from Paul Sabatier University in Toulouse, France, in 1992 and the H.D.R. from Pierre and Marie Curie University, Paris, France, in 1998. He was a Postdoctoral Fellow at M.I.T., U.S.A., in 1992 and 1993, and Research Scientist at Erasmus University Rotterdam, The Netherlands, in 1994. He has been Associate Professor and Professor from 1994 to 2004 at the Ecole des Mines de Nantes, France. His research interests broadly include modeling and optimization of operations at various decision levels (from real-time to strategic) in manufacturing and logistics, with a special emphasis on production planning (lot sizing) and scheduling, on semiconductor manufacturing and on railway operations. He has published 96 papers in international journals and has contributed to more than 200 communications in national and international conferences. Stéphane Dauzère-Pérès has coordinated numerous academic and industrial research projects, including 4 European projects and 30 industrial (CIFRE) PhD theses, and also eight conferences. He was runner-up in 2006 of the Franz Edelman Award Competition, and won the Best Applied Paper of the Winter Simulation Conference in 2013 and the EURO award for the best theory and methodology EJOR paper in 2021.

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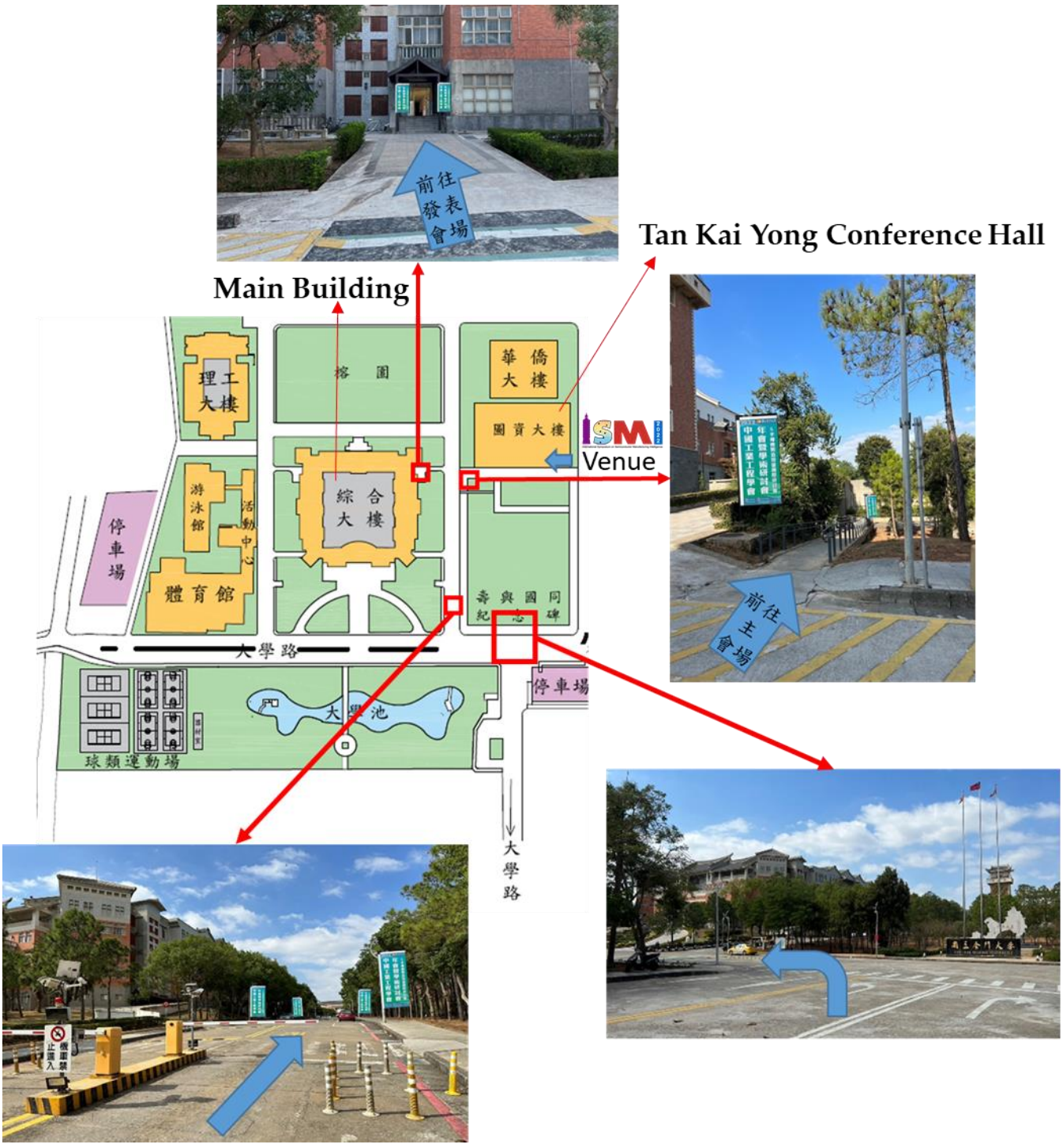
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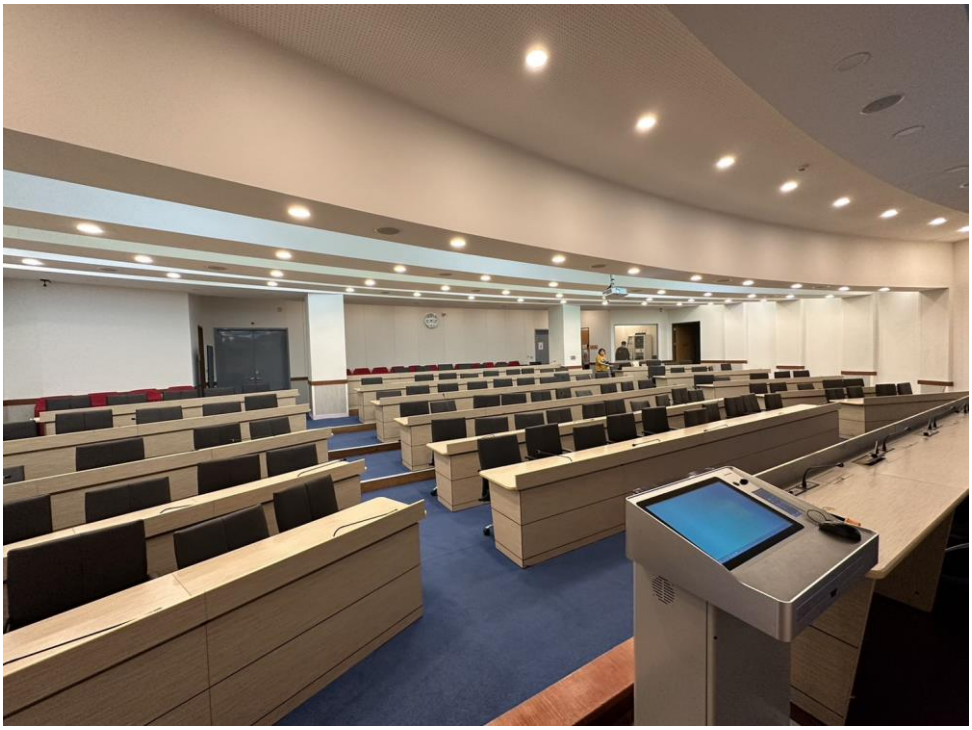
球類運動場
停車場
大學路
前往主會場

Venue

Tan Kai Yong Conference Hall



Venue

Main Building Room 110 & Room 111