



IJCAI 2024
CONFERENCE

TRANSITION WITH AI SUSTAINABLE
STAI
TRANSITION WITH AI SUSTAINABLE

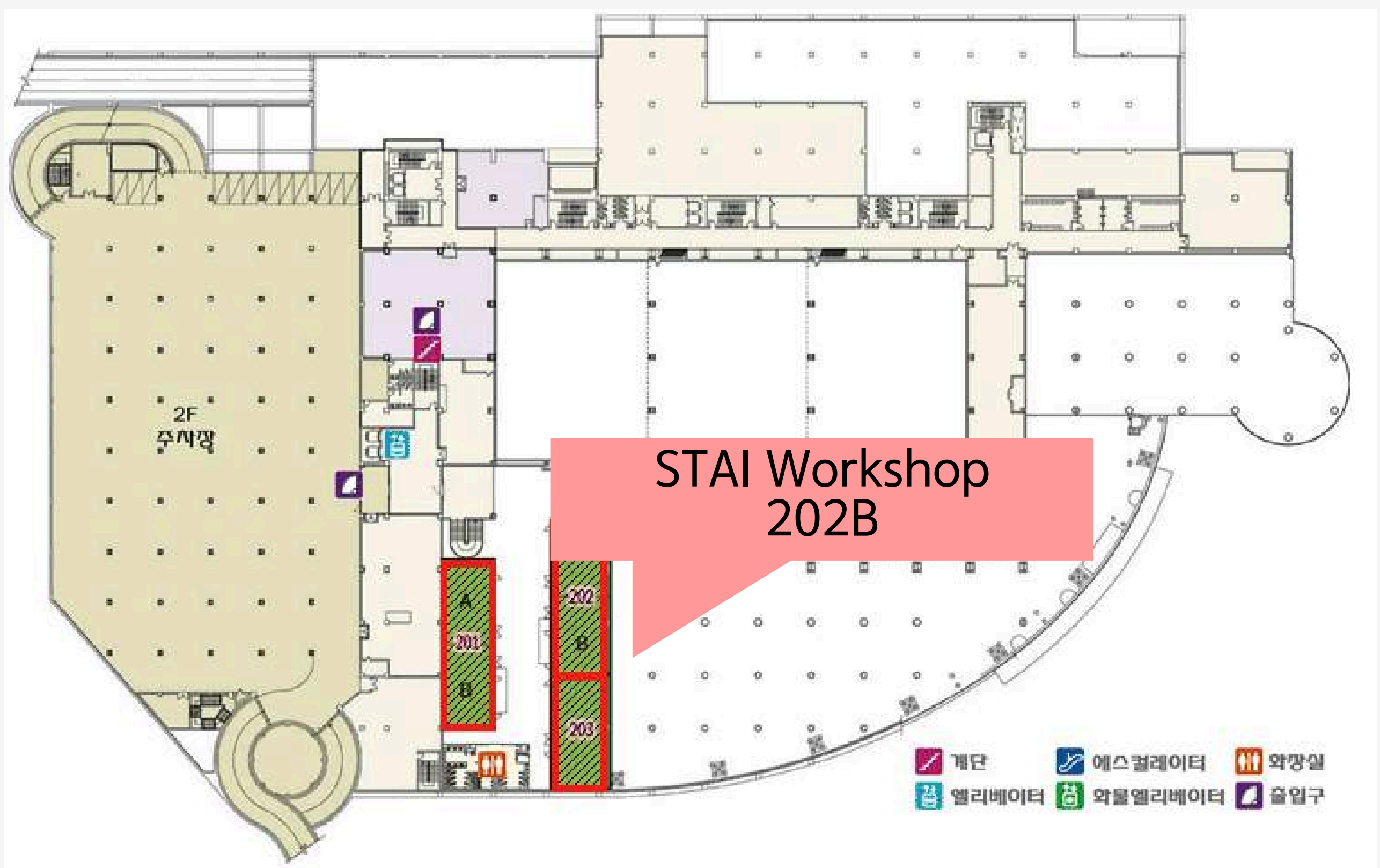
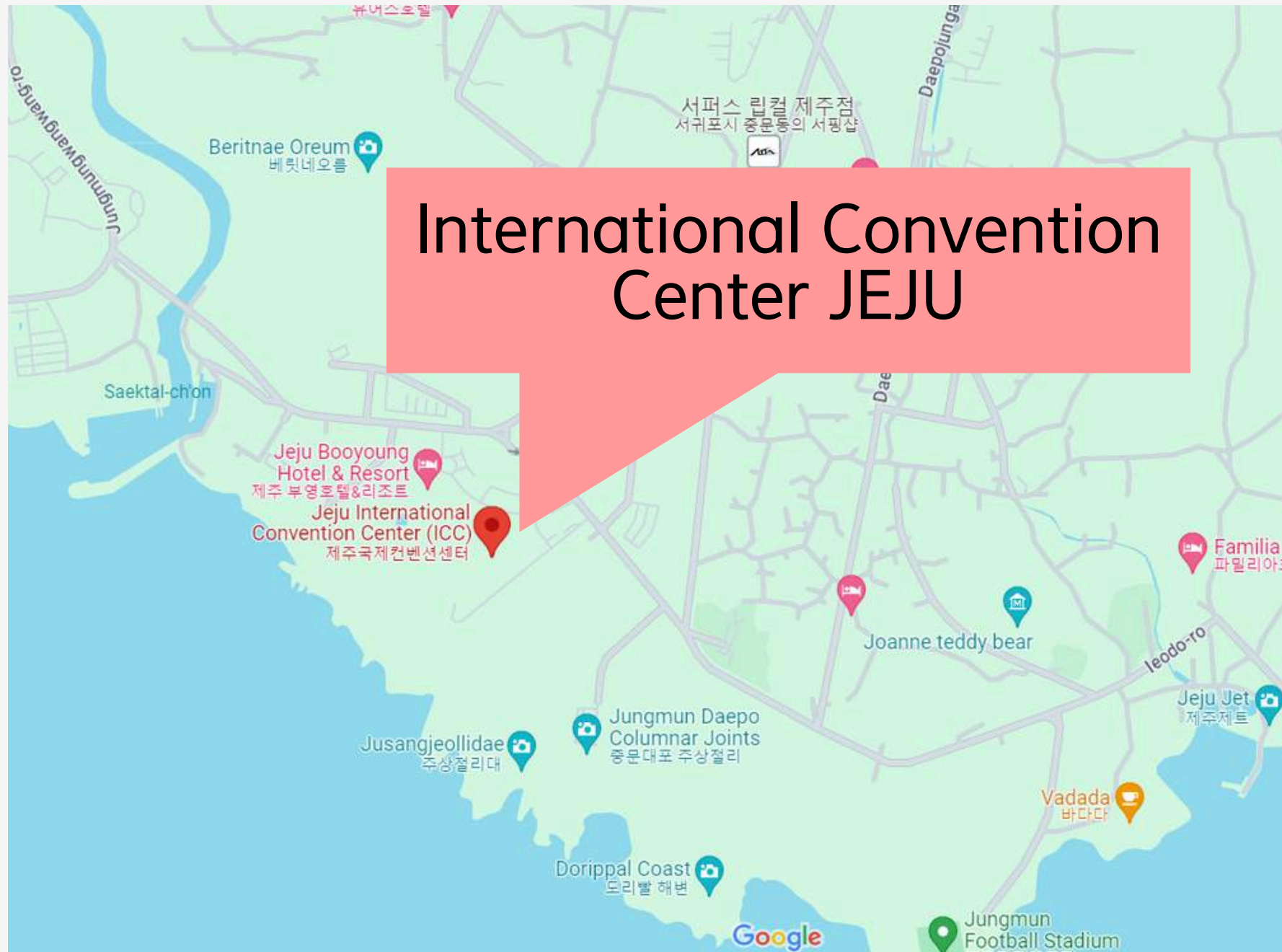
5 AUGUST, 2024



IJCAI 2024

Sustainable Transition with AI (STAI)

VENUE





SUSTAINABLE TRANSITION WITH AI

Organizing Committee



**CHRISTOPHER D.
MANNING**
Stanford University



SOH YOUNG IN
Korea Advanced Institute
of Science and Technology



YOUNG JOON LEE
Cheju Halla University



GAKU MORIO
Stanford University
& Hitachi America



SUSTAINABLE TRANSITION WITH AI

Program Co-Chairs



**CHI HEEM
WONG**

Stanford University
& Hitachi America



**DOMINIK
STAMMBACH**

ETH Zurich



**THOMAS
PUSCHMANN**

University of Zurich



SOH YOUNG IN

Korea Advanced Institute
of Science and Technology



GAKU MORIO

Stanford University
& Hitachi America



SUSTAINABLE TRANSITION WITH AI

Program Committee

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ETH Zurich

JAIEUN KIM

Saltlux

NAOYA INOUE

Japan Advanced Institute of
Science and Technology

HARRI ROWLANDS

InfluenceMap

HIROAKI OZAKI

Hitachi

NAOAKI OKAZAKI

Tokyo Institute of Technology

YUTA KOREEDA

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AARON YOON

Northwestern University

IVAN DIAZ-RAINEY

Griffith University

ANNE JELMAR SIETSMA

Wageningen University



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Sustainable Transition with AI (STAI)

PROGRAM SCHEDULE

* Venue: International Conference Center Jeju 202B		
Time	Program	
9:00 - 9:20	OPENING REMARKS - Young Joon Lee - Cheju Halla University	
9:20 - 9:55	KEYNOTE SESSION 1 <i>The Role of Artificial Intelligence in Shaping Sustainable Finance</i> - Markus Leippold - Swiss Finance Institute & University of Zurich	
9:55 - 10:30	KEYNOTE SESSION 2 <i>Fintech, Financial Inclusion, and Financial Literacy in Asia</i> - Peter J. Morgan - Asian Development Bank Institute	
10:30 - 11:00	Coffee Break	
11:00 - 12:30	Plenary Panel <i>Advances in AI Tech for Sustainable Development</i> - Moderator: Sang Hyup Kim (Presidential Commission on Carbon Neutrality and Green Growth) / Speakers: Markus Leippold (University of Zurich), Peter J. Morgan (Asian Development Bank Institute), Christopher D. Manning (Stanford University), Soh Young In (Korea Advanced Institute of Science and Technology) -	
12:30 - 14:00	Lunch	
14:00 - 14:45	Session 1 - STAI in the Private Sector	
	14:00 - 14:15	Evaluating cross-lingual transferability of ESG knowledge in large language models Akihiro Tsuji

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PROGRAM SCHEDULE

* Venue: International Conference Center Jeju 202B			
Time	Program		
14:00 - 14:45	Session 1 - STAI in the Private Sector		
	14:15 - 14:30	Analytical Methodology and a Simulator for ESG-Financial Indicators Based on Causal Hypothesis Graphs	Hiroaki Ozaki
	14:30 - 14:45	When Do Firms Oversell or Undersell Their Environmental Sustainability? An Empirical Analysis of Corporate Sustainability Communications	Soh Young In
14:45 - 15:15	Session 2 - STAI in the Tech Sector		
	14:45 - 15:00	Predicting Pineapple Quality by Multimodal and Multiview Learning for Waste Reduction	Chih-Yi Chiu
	15:00 - 15:15	Analyzing Decades-Long Environmental Changes in Namibia Using Archival Aerial Photography and Deep Learning	Girmaw Abebe Tadesse
15:15 - 15:30	Poster Spotlights		
	15:15 - 15:18	A Data Augmentation Method Based on Enhanced Conditional Generative Adversarial Networks for Improving Tomato Leaf Disease Classification	Anik Debnath
	15:19 - 15:22	HeASe: An AI-powered Framework to Promote Healthy and Sustainable Eating	Cataldo Musto

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PROGRAM SCHEDULE

* Venue: International Conference Center Jeju 202B			
Time	Program		
15:15 - 15:30	Poster Spotlights		
	15:23 - 15:26	Planetary Boundaries Meet Future Engineers: An AI-Driven Exploration	Sangyeon Han
	15:27 - 15:30	Enhancing Promotional Review Detection in Naver Restaurant Reviews: Integrating Large Language Models with Location-Based Data in Jeju	Pilseong Yang
15:30 - 16:00	Coffee Break		
16:00 - 16:45	Session 3 - STAI in the Public Sector		
	16:00-16:15	Towards Improving Multiclass Classification for Highly Imbalanced Wind Turbines Data	Subhajit Chatterjee
	16:15-16:30	Accurate State of Charge Estimation in Battery Systems Based on Machine Learning	Sadiqa Jafari
	16:30-16:45	Sustainable Urban Logistics via Combined Drone and Truck Route Optimization	Jae Hyeok Lee
16:45 - 17:00	Closing Remarks & Best Paper Awards - Christopher D. Manning - Stanford University		

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OPENING REMARKS

AT 9:00 AM
5 AUGUST, 2024



YOUNG JOON LEE

Cheju Halla University



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KEYNOTE SESSION 1

“The Role of Artificial Intelligence in Shaping Sustainable Finance”



MARKUS LEIPPOLD

Swiss Finance Institute
& University of Zurich

AT 9:20 AM
5 AUGUST, 2024



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KEYNOTE SESSION 2

*“Fintech, Financial Inclusion,
and Financial Literacy in Asia”*



PETER J. MORGAN

Asia Development Bank Institute

AT 9:55 AM
5 AUGUST, 2024



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Sustainable Transition with AI (STAI)

PLENARY PANEL

*“Advances in AI Tech
for Sustainable Development”*

| Speakers |



**MARKUS
LEIPPOLD**

Swiss Finance Institute
& University of Zurich



**PETER
MORGAN**

Asia Development
Bank Institute

| Moderator |



SANG HYUP KIM

Presidential
Commission on
Carbon Neutrality
and Green Growth



**CHRISTOPHER
D. MANNING**

Stanford University



SOH YOUNG IN

Korea Advanced
Institute of Science
and Technology

AT 11:00 AM
5 AUGUST, 2024



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Sustainable Transition with AI (STAI)

SESSION 1

- STAI in the Private Sector -

AT 2:00 PM
5 AUGUST, 2024

Time	Paper Title	Presenter
14:00 - 14:15	Evaluating cross-lingual transferability of ESG knowledge in large language models	Akihiro Tsuji (Mitsubishi UFJ Trust Investment Technology Institute Co., Ltd.)
14:15 - 14:30	Analytical Methodology and a Simulator for ESG-Financial Indicators Based on Causal Hypothesis Graphs	Hiroaki Ozaki (Hitachi, Ltd.)
14:30 - 14:45	When Do Firms Oversell or Undersell Their Environmental Sustainability? An Empirical Analysis of Corporate Sustainability Communications	Soh Young In (Korea Advanced Institute of Science and Technology)



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Sustainable Transition with AI (STAI)

SESSION 2

- *STAI in the Tech Sector* -

AT 2:45 PM
5 AUGUST, 2024

Time	Paper Title	Presenter
14:45 - 15:00	Predicting Pineapple Quality by Multimodal and Multiview Learning for Waste Reduction	Chih-Yi Chiu (National Chung Cheng University)
15:00 - 15:15	Analyzing Decades-Long Environmental Changes in Namibia Using Archival Aerial Photography and Deep Learning	Girmaw Abebe Tadesse (Microsoft)



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POSTER SPOTLIGHTS

AT 3:15 PM
5 AUGUST, 2024

Time	Paper Title	Presenter
15:15 - 15:18	A Data Augmentation Method Based on Enhanced Conditional Generative Adversarial Networks for Improving Tomato Leaf Disease Classification	Anik Debnath (Jeju National University)
15:19 - 15:22	HeASe: An AI-powered Framework to Promote Healthy and Sustainable Eating	Cataldo Musto (University of Bari)
15:23 - 15:26	Planetary Boundaries Meet Future Engineers: An AI-Driven Exploration	Sangyeon Han (Korea Advanced Institute of Science & Technology)
15:27 - 15:30	Enhancing Promotional Review Detection in Naver Restaurant Reviews: Integrating Large Language Models with Location-Based Data in Jeju	Pilseong Yang (Cheju Halla University)



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SESSION 3

- *STAI in the Public Sector* -

AT 4:00 PM
5 AUGUST, 2024

Time	Paper Title	Presenter
16:00 - 16:15	Towards Improving Multiclass Classification for Highly Imbalanced Wind Turbines Data	Subhajit Chatterjee (Jeju National University)
16:15 - 16:30	Accurate State of Charge Estimation in Battery Systems Based on Machine Learning	Sadiqa Jafari (Jeju National University)
16:30 - 16:45	Sustainable Urban Logistics via Combined Drone and Truck Route Optimization	Jae Hyeok Lee (Korea Advanced Institute of Science & Technology)



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CLOSING REMARKS & BEST PAPER AWARDS

5 AUGUST, 2024
AT 4:45 PM



CHRISTOPHER D. MANNING

Stanford University



Camellia Hill



Arte Museum Jeju



Hallasan Mountain

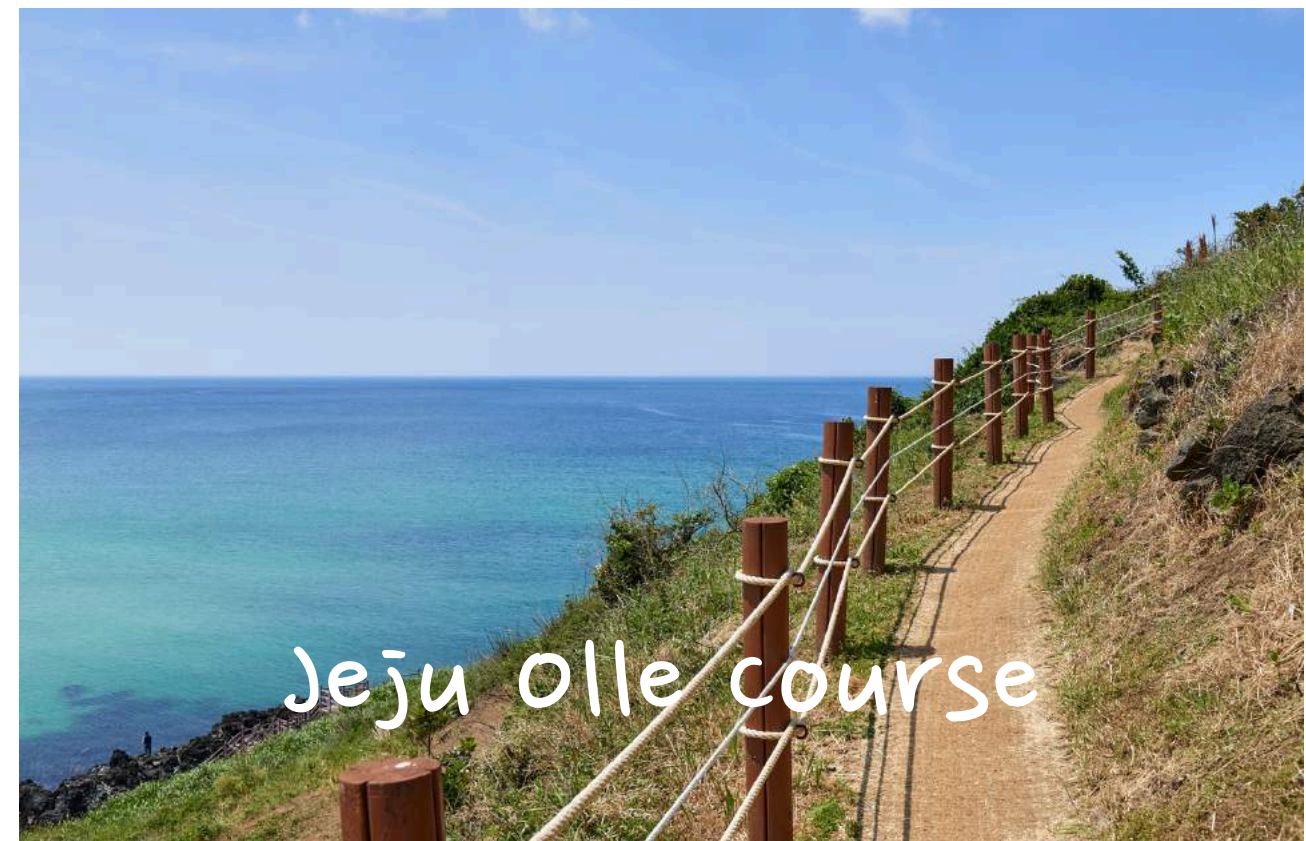


Seopjikoji

PLACES TO GO IN JEJU



Seongsan Ilchulbong Peak



Jeju Olle course



O'sulloc Tea Museum



9.81 Park Jeju



Golf



Surfing



camel Trekking



Horse Riding

THINGS TO DO IN JEJU



Mandarin orange



Pork Noodles



Sea urchin and Seweed Soup



cold Raw Fish Soup



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