

# ICCEPM 2024

The 10th International Conference on  
Construction Engineering and Project Management

*How innovative technology shapes sustainable built  
environment beyond limits for research and industry*



**Dates: July 29(Mon) -August 1 (Thu), 2024**

**Venue: Hokkaido University Conference Hall, Sapporo City, Japan**

**Organizers: ICCEPM2024 Joint Consortium**

## ICCEPM2024 Sapporo

### ICCEPM Consortium

The International Consortium of Construction Engineering and Project Management (ICCEPM) has been reformulated in 2021 on the basis of continued collaborative efforts for ICCEPM conferences since 2005.

ICCEPM is a global academic society committed to promoting advancement in the area of construction engineering and project management. ICCEPM aims to establish a knowledge base for the area, accurately forecast future technology demands, improve industry practices, and facilitate knowledge transfer in the field of construction management through international collaboration.

The co-presidents of ICCEPM, professor Youngsoo Jung of Myongji University and professor Heng Li of Hong Kong Polytechnic University, are honored and grateful to have Japan as our host for 2024!

Please visit our website at <https://www.iccepm.org/> for further information about the consortium.

### ICCEPM2024 Sapporo

The 10<sup>th</sup> International Conference on Construction Engineering and Project Management

We are excited to announce that 10th International Conference on Construction Engineering and Project Management (ICCEPM) is hosted in Sapporo from July 29th to August 1st, 2024.

We would like to invite you to attend and participate in various conference activities including academic paper presentations, business seminars and workshops, networking, music performance, dinner banquet, and post-conference excursion. These conference activities will be highly educational, practical and enjoyable for students, academics and practitioners.

The 2024 ICCEPM theme is “How innovative technology shapes sustainable built environment beyond limits for research and industry”. Under this theme, the conference will provide inspiring and thought-provoking opportunities through engagement with internationally renowned scholars and industry leaders known for their innovation.

Unlike traditional academic conferences, this ICCEPM conference is uniquely designed to blend creative ideas from academia and innovative practices from industry. Conference participants will experience the powerful synergy between academia and industry that will guide the future direction of the construction industry.

**CONFERENCE ORGANIZING TEAM**

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**Dr. Tomonari Yashiro**

Sustainable Built Environment

President of Tokyo City University, University of Tokyo

**Technical Committee Co-Chairs**



**Dr. Jung In Kim**

Architecture and Civil Engineering

City University of Hong Kong



**Dr. Tian Han**

Technology Management

Ritsumeikan University

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**Dr. Masatoyo Ogasawara**

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**Dr. Sayaka Nishino**

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## SPONSORS and SUPPORTING ORGANIZATIONS

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Conference participants will experience the powerful synergy between academia and industry that will guide the future direction of the construction industry.

### Sponsors and supporting organizations



The Korea Institute of Construction Engineering and Management (KICEM) is the leading professional membership society of construction engineering and management in Korea. KICEM has held annual conferences and international conferences as well as various seminars and forums since its founding to provide timely information to its members and the general public.

<https://www.kicem.or.kr/eng/>



Pacific Century Premium Developments Limited\* ("PCPD" or the "Group", SEHK: 00432) is principally engaged in the development and management of premium-grade property and infrastructure projects as well as premium-grade property investments



**CIRCLE FIELD  
ASSOCIATES**

Circle Field Associates is an independent professional firm (regulated by RICS) established in 2015, with offices in London UK and Japan. We are specialized in strategy, management and dispute resolution within Land, Property, Construction and Heritage sectors.



# ICCEPM2024 Sapporo

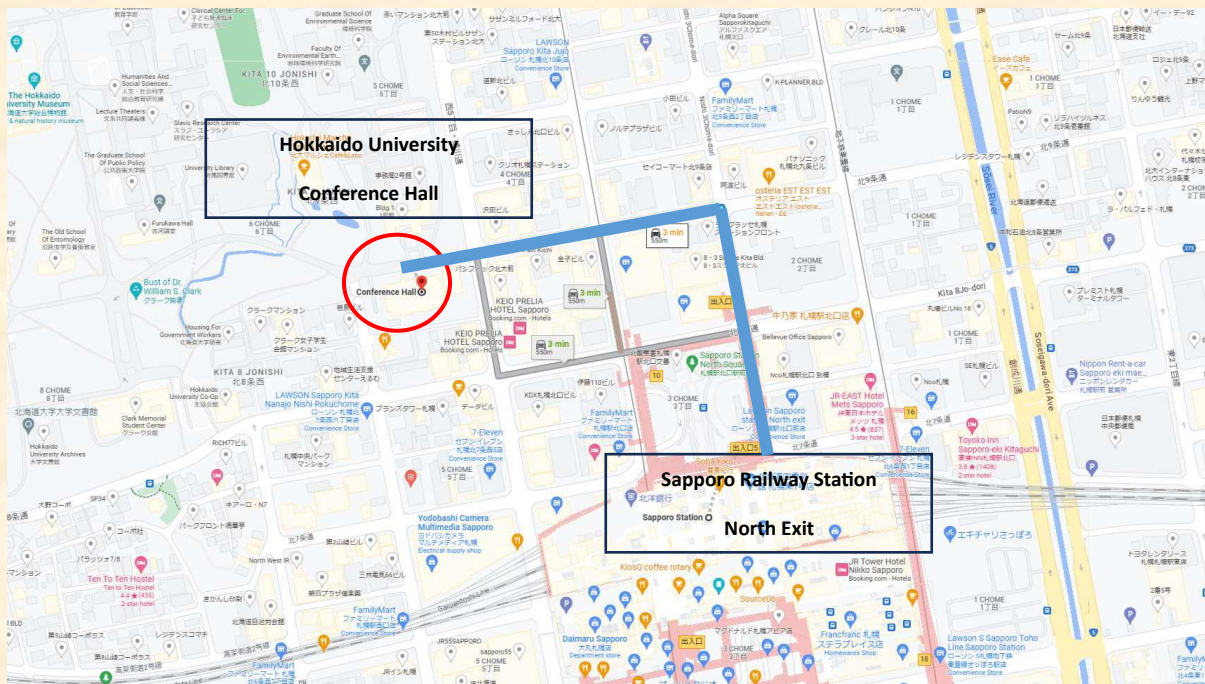
## VENUE

Hokkaido University Conference Hall is 10 minutes-walk from Sapporo Railway Station North Exit



<https://www.global.hokudai.ac.jp/about/facilities/event-and-seminar-spaces/conference-hall/>

## ACCESS



# ICCEPM2024 Sapporo

## **TRAVEL**

### International and Domestic airports to Shin Chitose Airport (CTS)

Direct flights from Seoul, Pusan, Beijing, Shanghai, Hong Kong, Taipei, Bangkok and other cities

Connection flights for 1 hour 50 minutes from Tokyo (Haneda/Narita) to Sapporo (Shin Chitose)

### From Shin Chitose Airport (CTS) to Sapporo Railway Station

Rapid Airport Trains for 40 minutes (one way ticket costs 1,150 -1,990 YEN, circa 8-14 USD)

### From Sapporo Railway Station to Hokkaido University Conference Hall

Walk for 10 minutes

### Hokkaido University Conference Hall

<https://www.global.hokudai.ac.jp/about/facilities/event-and-seminar-spaces/conference-hall/>

## **HOTEL**

Hotel fee is not included. Please book a nearby hotel such as;

1.Toyoko Inn Sapporo Station West Entrance Hokkaido University (3 stars)- walking distance

Toyoko Inn Sapporo Station North Entrance (3 stars)- walking distance

2.Keio Prelia Hotel (3 stars) – walking distance

3.Hotel Mystay Sapporo Aspen (4 stars)- walking distance

4.Mitsui Garden Hotel (3 stars) - Sapporo city center

5.Daiwa Roynet Hotel(4 stars) - Sapporo city center

6.Keio Plaza Hotel(5 stars) - Sapporo city center

7.Sapporo Grand Hotel(5 stars) - Sapporo city center

8.JR Tower Hotel Nikko Sapporo (5 stars) - Sapporo city center

9. Sapporo Prince Hotel (5 stars) - Sapporo city center

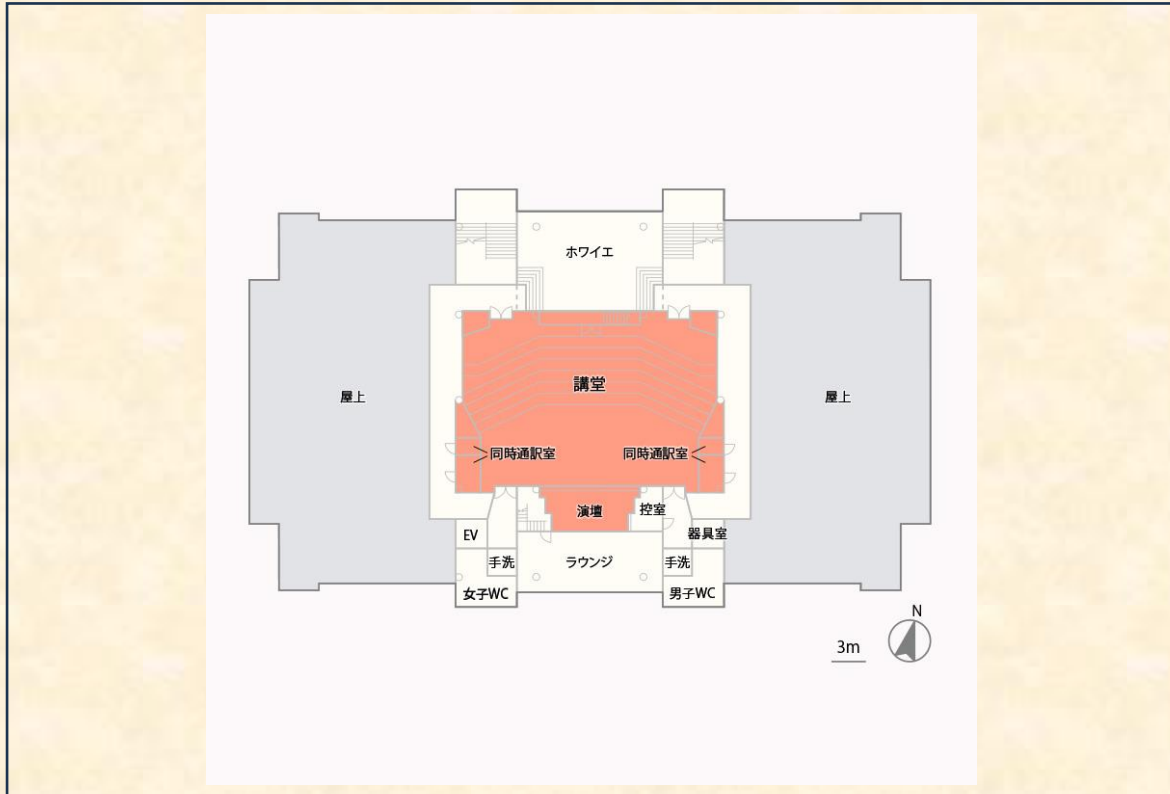
10.Sapporo Park Hotel (5 stars) - South of Sapporo city center

# ICCEPM2024 Sapporo

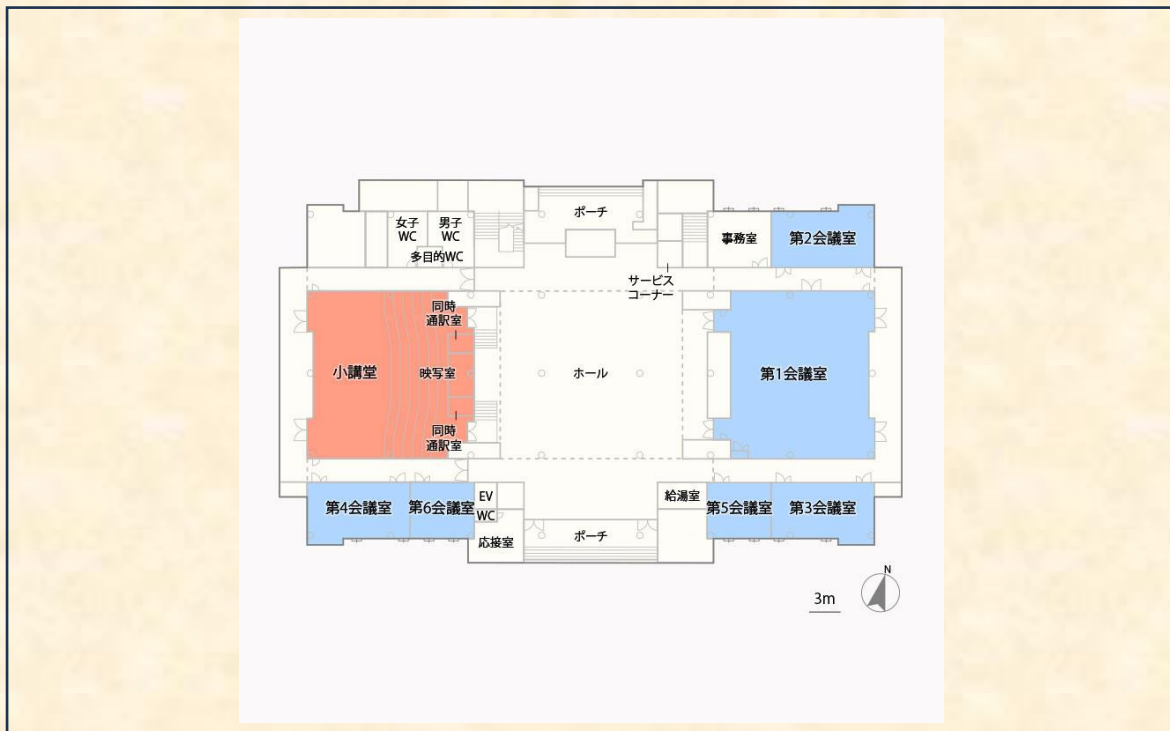
## FLOOR PLAN

### Hokkaido University Conference Hall

#### Upper Floor- Auditorium(orange)



#### Ground Floor – Auditorium(orange) and 6 conference rooms(blue)





# ICCEPM2024 Sapporo

## CONFERENCE PROGRAM

	Time	Room
<b><u>Day1- July 29 (Mon), 2024</u></b>		
Day1 Registration (Online)	11:00 AM-	Entrance Hall
Day1 Opening ceremony	12:30 PM	Auditorium
Dr Tomonari Yashiro (ICCEPM2024 Chair)		
Dr Youngsoo Jung (ICCEPM Co-President)		
Dr Bonsang Koo, Dr JoonOh Seo (ICCEPM2024 Organizers)		
Architect Hideyuki Hatakenaka (Studio Sinfonica)		
Day 1 Keynote speeches	13:30 – 17:00 PM	Auditorium
Day 1 Academic Paper proceedings	16:00 -17:00 PM	Conference rooms
Day 1 Business Seminars and Workshops	16:00 -17:00 PM	Auditoriums
<b><u>Day2- July 30 (Tue), 2024</u></b>		
Day 2 Opening	9:00 AM	Auditoriums
Day 2 Keynote speeches	9:30 -10:30 AM	Auditoriums
Day 2 Academic Paper proceedings	10:30 AM -17:00 PM	Conference rooms
Day 2 Business Seminars and Workshops	10:30 AM -17:00 PM	Auditoriums
<b><u>Day3- July 31 (Wed), 2024</u></b>		
Day 3 Opening	9:00 AM	Auditoriums
Day 3 Keynote speeches	9:30 -10:30 AM	Auditoriums
Day 3 Academic Paper proceedings	10:30 AM -17:00 PM	Conference rooms
Day 3 Business Seminars and Workshops	10:30 AM -17:00 PM	Auditoriums
Conference Closing	17:00PM	Auditoriums
Awards & Banquet Dinner	18:00 -20:00 PM	Sapporo Garden Palace Hotel
<b><u>Day 4- August 1 (Thu), 2024</u></b>		
Excursion to Niseko	9:00 AM	Departing Hotel Mystays Sapporo Aspen
Park Hyatt Niseko- tour, drinks & canapes	11:00 AM– 13:00 PM	Park Hyatt Niseko Hanazono
Post 13PM is for participants' own choices (e.g. summer activities & hotel stay).		
*free tour buses departing 13:30(via Chitose airport), 15:30 and 16:30 PM, back to Sapporo.		

# ICCEPM2024 Sapporo

## PROGRAM CHART

	DAY1									
	Time	Auditoriums(2FL)	Auditorium(1FL)	Time	Room1	Room2	Room3	Room4	Room5	Room6
	12:30PM-13:30PM	Opening ceremony	-	12:30PM-16:00PM	-	-	-	-	-	-
	13:30PM-16:00PM	Keynote Speech	-	16:00PM-17:00PM	Session1	BoD	Session1	Session1	-	-
	16:00PM-17:00PM		Business seminar							
	18:30PM-	Invitation only-Sapporo Prince Hotel								
	DAY2									
	Time	Auditoriums(2FL)	Auditorium(1FL)	Time	Room1	Room2	Room3	Room4	Room5	Room6
	9:30AM-10:30AM	Keynote Speech	-	9:30AM-10:30AM	-	-	-	-	-	-
	11:00AM-12:00PM	Business seminar	Business seminar	10:30AM-12:15PM	Session1	Session1	Session1	Session1	Session1	Session1
	12:00PM-13:00PM	Lunch	Lunch	12:15PM-13:15PM	Break	Break	Break	Break	Break	Break
	13:00PM-17:00PM	Business seminar	Business seminar	13:15PM-15:00PM	Session2	Session2	Session2	Session2	Session2	Session2
				15:15PM-17:00PM	-	Session3	Session3	Session3	Session3	Session3
	18:30PM-	Invitation only-Sapporo Prince Hotel								
	DAY3									
	Time	Auditoriums(2FL)	Auditorium(1FL)	Time	Room1	Room2	Room3	Room4	Room5	Room6
	9:30AM-10:30AM	Keynote Speech	-	9:30AM-10:30AM	-	-	-	-	-	-
	11:00AM-12:00PM	Business seminar	Business seminar	10:30AM-12:15PM	Session1	Session1	Session1	Session1	Session1	Session1
	12:00PM-13:00PM	Lunch	Lunch	12:15PM-13:15PM	Break	Break	Break	Break	Break	Break
	13:00PM-17:00PM	Business seminar	Business seminar	13:15PM-15:00PM	Session2	Session2	Session2	Session2	Session2	Session2
				15:15PM-17:00PM	Session3	-	Session3	-	Session3	-
	18:00PM-20:00PM	Banquet Dinner (Sapporo Garden Palace Hotel)								
DAY4	9:00AM-13:00PM	Excursion from Sapporo to Niseko/by bus departing Hotel Mystays Sapporo Aspen)								
	13:00PM-	Free Activities. Buses departing Park Hyatt Niseko at 13:30PM(Sapporo via Chitose Airport), 15:30PM(Sapporo), 16:30PM(Sapporo)								

## ICCEPM2024 Sapporo

### **KEYNOTE SPEECH**

**Day1- July 29 (Mon), 2024. 13:30-14:15 PM**

Prof. George Edward Gibson Jr. President, National Academy of Construction  
Arizona State University



**Title: Technology is important and so are people...**

The implementation of technology and its impact on the integration of project management functions has long been looked at as a game changer.

**Day1- July 29 (Mon), 2024. 14:30-15:15 PM**

Prof. Hun-Hee Cho Dean of the Graduate School of Management of Technology  
Korea University



**Title: Is Smart Construction Now here or Nowhere?**

Examining how smart technologies are revolutionizing the construction industry and how we can drive this transformation ourselves

**Day1- July 29 (Mon), 2024. 15:30-16:15 PM**

Prof. Dongping Fang Tsinghua University



**Title: Cognition-Based Safety + Artificial Intelligence for Construction Safety**

**Day1- July 29 (Mon), 2024. 16:15-17:00 PM**

Prof. Ying-Yi Chih Australian National University



**Title: American Society of Civil Engineers (ASCE)'s Journal of Management in Engineering (JME), its review process and criteria.**



# ICCEPM2024 Sapporo

## **KEYNOTE SPEECH**

### **Day2- July 30 (Tue), 2024. 9:30-10:30 AM**

Prof. Norio Maki

Kyoto University, Disaster Prevention Research Institute



**Title: How can we measure the resilience of building functionality?**

### **Day3- July 31 (Wed), 2024. 9:30-10:30 AM**

Prof. Hirotake Kanisawa

Shibaura Institute of Technology



**Title: Shortages of skilled construction workers in Japan, and challenges for the construction industry in Japan and Asia.**

How to improve education, management and production efficiency?

Prof. Kazuya Shide

Shibaura Institute of Technology



**Title: Offsite construction and digital transformation in Construction industry.**

How current issues can be solved by practitioners and academic researchers?

# ICCEPM2024 Sapporo

## SOCIAL EVENTS and MEALS

### Lunch box

Please check-in and order your lunch box before July 20 (Sat).

<https://iccepm2024.com/registration>

Collect it at GFL Entrance Hall, to enjoy it at GFL Auditorium

DAY2 and DAY3: from 12:00 PM to 13:00 PM

Location: GFL Entrance Hall & GFL Auditorium

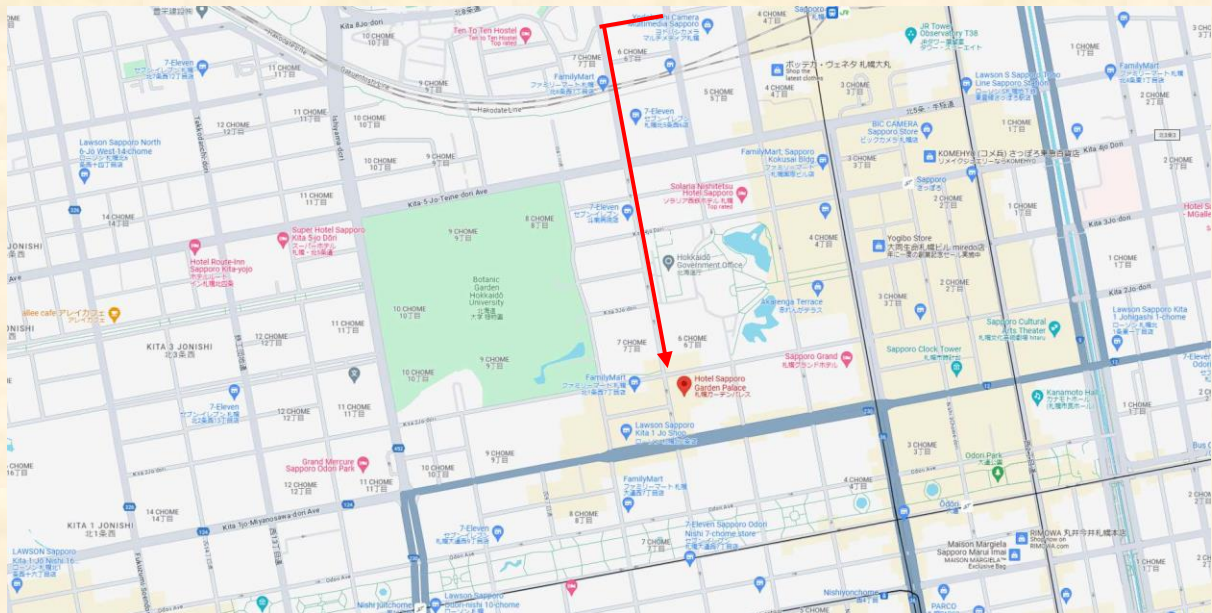
### Banquet Dinner

DAY3: from 18:00PM to 20:00PM

Location: Sapporo Garden Palace Hotel

From the Conference Hall, please walk straight down to South for 15 min.

<https://www.hotelgp-sapporo.com/access/>



### Excursion

DAY4: Please see page 26 and 27 for details

# ICCEPM2024 Sapporo

## TECHNICAL PROGRAM PROCEEDINGS

### ROOM1,2,3 and4 (DAY1)

SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY1-SESSION1-ROOM1	1. Industrialized and Modular Construction	Taewan Kim	ROOM1	1,2	DAY1	29-Jul-24	16:00	16:15	79	Zhongfu Li and Ruyuan Zheng	Multi-objective permutation flow shop scheduling in precast production under consideration of embodied carbon emissions
	2. Sustainable Construction and Resilient Infrastructure/Cities/Communities		ROOM1	1,2,8	DAY1	29-Jul-24	16:15	16:30	120	Kyeongtae Jeong, Jongyoung Youn, Chaeyeon Yu and Donghoon Lee	A Study on the Lower Shape of Double-curved and Polygonal Free-form Concrete Panel
	3. Sensing and Data Analytics for Construction (AI & Data Science)		ROOM1	3,7	DAY1	29-Jul-24	16:30	16:45	223	Dahyun Jung, Hakyeon Kim, Seunghoon Jung, Hyuna Kang, Seungkeun Yeom, Jui Kim and Taehoon Hong	Comprehensive System Framework for Visual Fatigue and Cognitive Performance Management based on Predictive Models
	7. Building Science (Energy Modeling, Facility Management)		ROOM1	7	DAY1	29-Jul-24	16:45	17:00	233	Kyungtaek Oh, Hyeyoung Kim, Juyoun Park, Hwan Namgung, Jaewook Lee, Kwangbok Jeong and Jaehong Lee	A Study of CO2 Emissions Reduction Effect in UK Non-Domestic Buildings according to Energy Performance Certificate Mandate
DAY1- BoD Meeting-ROOM2	BoD Agenda	ICCEPM BoD Presidents & Chairs	ROOM2	BoD	DAY1	29-Jul-24	16:30	17:45	-	ICCEPM BoD Members	BoD Agenda
DAY1-SESSION1-ROOM3	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	Muhammad Umair	ROOM3	4	DAY1	29-Jul-24	16:00	16:15	18	Ximing Sun, Jiayu Chen and Xiaobing Li	Parametric modeling of walls based on voxels of slices and line segment detection
			ROOM3	4	DAY1	29-Jul-24	16:15	16:30	21	Muhammad Umair, Joonho Seo and Choongwan Koo	Impact of Repeated Virtual Reality Safety Training on the Construction Worker Risk Habituation
			ROOM3	4	DAY1	29-Jul-24	16:30	16:45	251	Joonho Jeong, Sohyun Kim, Junwoo Park, Junmin Lee, Kwangbok Jeong and Jaewook Lee	Automated Generation of BIM Models with Indoor Spaces Using Street View Images
			ROOM3	4	DAY1	29-Jul-24	16:45	17:00	295	Jonghyuk Lee, Sangik Lee, Byung-hun Seo, Dongsu Kim, Yejin Seo, Dongwo Kim, Yeim Jo and Won Choi	Automated Terrain Data Generation for Urban Flood Risk Mapping Using c-GAN and BBDM
DAY1-SESSION1-ROOM4	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	Won Choi	ROOM4	4,6	DAY1	29-Jul-24	16:00	16:15	240	Sangki Song, Juwon Hong, Jimwoo Choi, Mirjin Kang, Jongtaek An, Jaewoon Jeoung and Taehoon Hong	Assessing multiple hazard recognition abilities of construction equipment operators in dark environments using virtual reality
			ROOM4	4,6	DAY1	29-Jul-24	16:15	16:30	285	Byung-hun Seo, Sangik Lee, Jonghyuk Lee, Dongsu Kim, Yejin Seo, Dongwo Kim, Yeim Jo and Won Choi	Structural Safety Diagnosis of Plastic Greenhouse Using 3D Scanning Method
			ROOM4	6	DAY1	29-Jul-24	16:30	16:45	301	Kihun Song	Development of an Enhanced Risk Management System for Construction Defect Control in Industrial Plants



# ICCEPM2024 Sapporo

## TECHNICAL PROGRAM PROCEEDINGS

### ROOM1 (DAY2&DAY3)

SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY2-SESSION1-ROOM1	1. Industrialized and Modular Construction	Sungkon Moon	ROOM1	1,3,8	DAY2	30-Jul-24	10:30	10:45	36	Sangmin Park, Maxwell Fordjour Arwa Abiri, Sanghyeok Han and Sungkon Moon	Classification and Improvement Directions for Mobile Crane Path Planning Algorithms: A Comprehensive Review
			ROOM1	1,4	DAY2	30-Jul-24	10:45	11:00	9	Zhengfu Zhu and Kazuya Shide	Construction Method Research Using Building Information Modeling: A Focus on the Precast Concrete Partitioning Method Leveraging Genetic Algorithms
			ROOM1	1,4	DAY2	30-Jul-24	11:00	11:15	201	Saddiq Ur Rahman and Inhan Kim	Shape Grammar Driven BIM Model Database for a Modular Building Design Recommender System
			ROOM1	1,4	DAY2	30-Jul-24	11:15	11:30	202	Xi Chen, Wotun Duan, Guichen Zhou and Gang Wang	A framework of welding digital twin for steel structures
			ROOM1	2,10	DAY2	30-Jul-24	11:30	11:45	1	Kwanghyuk Im	IM (InterIndustry-Macro) Model on the Construction Sector
			ROOM1	2,10	DAY2	30-Jul-24	11:45	12:00	188	William Collinge	When sustainable technologies are ignored, socio-technical systems thinking, construction and sustainable development
			ROOM1	2,4,6	DAY2	30-Jul-24	12:00	12:15	67	Shing Li, Zhihao Ren, Yuanyuan Tian, Jang In Kim, Li Ma and Longyang Huang	Multi-objective optimization model for urban road maintenance planning using BIM, GIS, and DCE
DAY2-SESSION2-ROOM1	2. Sustainable Construction and Resilient Infrastructure/Cities/Communities	Manik Adhikari	ROOM1	2,3	DAY2	30-Jul-24	13:15	13:30	19	Manik Adhikari, Suang Bin Lee, Seung Wuk Kim, Hyeon-Jun Kim, Jermie Tuganpatur, Sang-Guk Yum and Ji-Myoung Kim	Monitoring Roadbed Stability to Prevent Causing Hazards in Daeguon City, South Korea, Using Sentinel-1 SAR Data
			ROOM1	2,4,8	DAY2	30-Jul-24	13:30	13:45	38	Kiun Lee, Taeyong Kim and Sungkon Moon	Simulation of Urban Environments for Disaster Risk Management: Comprehensive Review of Techniques and Future Directions
			ROOM1	2,4,8	DAY2	30-Jul-24	13:45	14:00	43	Wonwoo Shin, Kyubyong Kang and Sungkon Moon	Enhancing Road Infrastructure Management: Pothole Detection Technology and Classification Standards
			ROOM1	2,7	DAY2	30-Jul-24	14:00	14:15	282	Yeim Jo, Sangki Lee, Jonghyuk Lee, Byounghan Seo, Dongsoo Kim, Yujin Seo, Dongwoo Kim and Won Choi	Nonlinear Finite Element Method for Local Buckling in Plastic Greenhouse
			ROOM1	3,4,7	DAY2	30-Jul-24	14:15	14:30	192	Thanh Loan Le and Sung-Ah Kim	Mixed-input neural networks for daylight prediction
			ROOM1	3,6	DAY2	30-Jul-24	14:30	14:45	50	Haneul Lee, Yeonghae Yun, Seokhoon Yun and Youkyung Kim	The optimal method for imputing missing data in the preprocessing phase to enhance the performance of a CNN-based construction period prediction model
			ROOM1	3,4	DAY2	30-Jul-24	14:45	15:00	59	Shadi Alatharneh, Buisa Yucel, Junshan Liu and Scott Kramer	A Comparative Analysis of Point Clouds Acquired from Terrestrial Laser Scanning, UAV Photogrammetry, UAV-based LiDAR, and 3D Virtual Tours in the Built Environment
DAY3-SESSION1-ROOM1	3. Sensing and Data Analytics for Construction (AI & Data Science)	Minikoo Kim	ROOM1	3,4	DAY3	31-Jul-24	10:30	10:45	69	Francis Xavier Duraimah, Samuel Olatunbosun, Joong-Hun Won and Minikoo Kim	Advancing Construction Safety Through a Combination of Immersive Technologies and Physiological Monitoring - A Systematic Review
			ROOM1	3,6	DAY3	31-Jul-24	10:45	11:00	149	Nasrullah Khan, Syed Fathan Alam Zaidi, Aqsa Sabir, Muhammad Sibtan Abbas, Rahat Hussain, Dongmin Lee and Chansik Park	DTR: A Unified Detection-Tracking-Re-identification Framework for Dynamic Worker Monitoring in Construction Sites
			ROOM1	3,6	DAY3	31-Jul-24	11:00	11:15	271	Jurhee Jung, Sechyeon Yang, Emmanuel Kimko, Doryeong Kim, Chansik Park and Dongmin Lee	Worker Customized Stress Monitoring through Body Composition Analysis and Wearable Bio-Sensor
			ROOM1	3,8	DAY3	31-Jul-24	11:15	11:30	182	Wei Yi Hou, Antun Pal, Jacob J. Lin and Sheng-Hsien Hsien	Real-time Construction Progress Monitoring Framework leveraging Generative SLAM
			ROOM1	4,12	DAY3	31-Jul-24	11:30	11:45	127	Mahmoud Soltani, Akseem Pechra, Raheem Hussain, Si Van Tien Tran, Aqsa Sabir, Doyeop Lee and Chansik Park	Enhancing Construction Jobsite Safety Training Through SAFEEducation: A Novel Approach Using Industry 4.0 Technologies
			ROOM1	2,8	DAY3	31-Jul-24	11:45	12:00	215	Chen Li, Ke Chen and Hanlin Li	Cross-Learning Enhanced Semi-Supervised Point Cloud Semantic Segmentation for Sewer Inspection
			ROOM1	3,12	DAY3	31-Jul-24	12:00	12:15	142	Syed Fathan Alam Zaidi, Muhammad Sibtan Abbas, Rahat Hussain, Aqsa Sabir, Nasrullah Khan, Jashun Yang and Chansik Park	Safe Chatbot: Natural Language Processing and Large Language Model driven Construction Safety Learning through OSHA Rules and Video Content Delivery
			ROOM1	3,6	DAY3	31-Jul-24	12:15	12:30	281	Byungho Yoo, Yunchul Woo, Jimoo Kim, Moonsoo Park and Changbum Ryan Ahn	Improving Explainability of Generative Pre-trained Transformer Model for Classification of Construction Accident Types: Validation of Saliency Visualization
			ROOM1	4,12	DAY3	31-Jul-24	13:15	13:30	133	Aqsa Sabir, Rahat Hussain, Syed Fathan Alam Zaidi, Muhammad Sibtan Abbas, Nasrullah Khan, Jashun Yang and Dr. Doyeop Lee	Integrating Conversational AI Based Serious Games to Enhance Problem-Solving Skills of Construction Students
			ROOM1	4,12	DAY3	31-Jul-24	13:30	13:45	135	Rahat Hussain, Aqsa Sabir, Muhammad Sibtan Abbas, Nasrullah Khan, Syed Fathan Alam Zaidi, Chansik Park and Doyeop Lee	Multi-agent Conversational AI System for Personalized Learning of Construction Knowledge
			ROOM1	4,12	DAY3	31-Jul-24	13:45	14:00	136	Rahat Hussain, Akseem Pechra, Mahmoud Soltani, Si Van Tien Tran, Syed Fathan Alam Zaidi, Chansik Park and Doyeop Lee	Enhancing Leadership Skills of Construction Students through Conversational AI-based Virtual Platform
			ROOM1	4,6	DAY3	31-Jul-24	14:00	14:15	96	Shuhan Yang, Ke Dai, Zhihao Ren, Jang In Kim, Bin Jiao, Dan Wang and Wooyoung Jung	Excavation schedule optimization for hardrock tunnels based on Q-learning
			ROOM1	4,6	DAY3	31-Jul-24	14:15	14:30	236	Thai-Hoa Le and Jacob J. Lin	An On-site and Off-site Collaborative Safety Monitoring Framework using Augmented and Virtual Reality for Near miss Incidents
ROOM1	4,7	DAY3	31-Jul-24	14:30	14:45	141	Shuhe Tazawa, Yui Sato, Stephanie Bay, Yoko Nagayama and Jun Inoue	Improving Efficiency of University Campus Facility Management Using Digital Twin			
ROOM1	3,4	DAY3	31-Jul-24	14:45	15:00	151	Jinwu Xiao, Jashun Hu, Sungkon Moon and Kyubyong Kang	Reconstructing and Visualizing Construction Progress Using Neural Radiance Fields			
ROOM1	2,10	DAY3	31-Jul-24	15:00	15:15	287	Kwanghyuk Im	InterIndustry-Macro (IM) Model on the Construction Sector			
DAY3-SESSION2-ROOM1	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	Fathan Alam Zaidi/Chansik Park and Dr. Doyeop Lee	ROOM1	4,12	DAY3	31-Jul-24	13:15	13:30	133	Aqsa Sabir, Rahat Hussain, Syed Fathan Alam Zaidi, Muhammad Sibtan Abbas, Nasrullah Khan, Jashun Yang and Dr. Doyeop Lee	Integrating Conversational AI Based Serious Games to Enhance Problem-Solving Skills of Construction Students
			ROOM1	4,12	DAY3	31-Jul-24	13:30	13:45	135	Rahat Hussain, Aqsa Sabir, Muhammad Sibtan Abbas, Nasrullah Khan, Syed Fathan Alam Zaidi, Chansik Park and Doyeop Lee	Multi-agent Conversational AI System for Personalized Learning of Construction Knowledge
			ROOM1	4,12	DAY3	31-Jul-24	13:45	14:00	136	Rahat Hussain, Akseem Pechra, Mahmoud Soltani, Si Van Tien Tran, Syed Fathan Alam Zaidi, Chansik Park and Doyeop Lee	Enhancing Leadership Skills of Construction Students through Conversational AI-based Virtual Platform
			ROOM1	4,6	DAY3	31-Jul-24	14:00	14:15	96	Shuhan Yang, Ke Dai, Zhihao Ren, Jang In Kim, Bin Jiao, Dan Wang and Wooyoung Jung	Excavation schedule optimization for hardrock tunnels based on Q-learning
			ROOM1	4,6	DAY3	31-Jul-24	14:15	14:30	236	Thai-Hoa Le and Jacob J. Lin	An On-site and Off-site Collaborative Safety Monitoring Framework using Augmented and Virtual Reality for Near miss Incidents
			ROOM1	4,7	DAY3	31-Jul-24	14:30	14:45	141	Shuhe Tazawa, Yui Sato, Stephanie Bay, Yoko Nagayama and Jun Inoue	Improving Efficiency of University Campus Facility Management Using Digital Twin
			ROOM1	3,4	DAY3	31-Jul-24	14:45	15:00	151	Jinwu Xiao, Jashun Hu, Sungkon Moon and Kyubyong Kang	Reconstructing and Visualizing Construction Progress Using Neural Radiance Fields
DAY3-SESSION3-ROOM1	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	Christina Gross	ROOM1	4,8,11	DAY3	31-Jul-24	15:15	15:30	259	Changmin Pyo, Donghee Yoo and Jaiswoong Kim	Design of considering distortion after high energy manufacturing with Finite element analysis & Deep learning
			ROOM1	5,6	DAY3	31-Jul-24	15:30	15:45	46	Christina Gross, Philip Sander and Christian Trapp	A novel Approach to Risk Management for University Research Projects
			ROOM1	5,6,10	DAY3	31-Jul-24	15:45	16:00	35	Wonwoo Shin, Sanghyeok Han and Sungkon Moon	Advancing Defect Resolution in Construction: Integrating Fact Mining and Semantic Analysis for Deeper Customer Experiences
			ROOM1	5,10	DAY3	31-Jul-24	16:00	16:15	95	Jashun Park and Sungkon Moon	STRATEGIC FRAMEWORK FOR DIGITAL TRANSFORMATION IN ARCHITECTURE, ENGINEERING, AND CONSTRUCTION ORGANIZATIONS
			ROOM1	5,10,12	DAY3	31-Jul-24	16:15	16:30	247	Keito Sadaematsu	A Survey of the Structure of Construction Projects Using BIM - Focusing on Malaysia and Vietnam-
			ROOM1	2,11	DAY3	31-Jul-24	16:30	16:45	261	Jason Ting, Foo Wei Lee, Ming Kun Yew, Ren Je Chin and Chun Chieh Yip	Particle Size Dependent Enhancement of Compressive Strength and Carbonation Efficiency in Steel Slag Cementitious Composites
			ROOM1	2,11	DAY3	31-Jul-24	16:45	17:00	262	Jason Ting, Foo Wei Lee, Ming Kun Yew, Kim Hung Mo and Yip Chun Chieh	STRUCTURAL PERFORMANCES OF RUBBERIZED CONCRETE WALL PANEL UTILIZING FIBER CEMENT BOARD AS SKIN LAYER.

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## TECHNICAL PROGRAM PROCEEDINGS

### ROOM2 (DAY2&DAY3)

SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY2-SESSION1-ROOM2	2. Sustainable Construction and Resilient Infrastructure/Cities/Communities	Jong Han Yoon	ROOM2	2	DAY2	30-Jul-24	10:30	10:45	16	Roshan Bandiwadkar, Jong Han Yoon and Vivek Sharma	Systematic Literature Review of Sustainable Construction Projects for Carbon Neutrality
			ROOM2	2	DAY2	30-Jul-24	10:45	11:00	29	Atsushi Tamura, Koya Utsumi and Akimori Konno	Quantitative Study on Sustainability of Building Construction in Japan from Perspective of Recent Changes in Building Status and Trends
			ROOM2	2	DAY2	30-Jul-24	11:00	11:15	90	Hengliang Wu, Bingheng Liu, Jingke Hong and Yibo Wang	Negative Assessment of High-Speed Railway System Vulnerability to Future Climate-Induced Flooding in China
			ROOM2	2	DAY2	30-Jul-24	11:15	11:30	93	Chhabi Lal Paudel and Michael Henry	Evaluation of the Effect of Project Delay on Future Benefits in the Nepal Road Infrastructure Construction Sector
			ROOM2	2	DAY2	30-Jul-24	11:30	11:45	94	Myunghin Cha and Jyong Cho	MACHINE LEARNING BASED ASSET RISK MANAGEMENT FOR HIGHWAY HIGH SUPPORT SYSTEMS
			ROOM2	2	DAY2	30-Jul-24	11:45	12:00	96	Molaka Manuthi, Dong Eun Lee and Buzhyar Kim	Enhancement of concrete crack detection using U-Net
			ROOM2	2	DAY2	30-Jul-24	12:00	12:15	98	Yuchi Onuma, Satoshi Fujita, Osamu Fujiya, Yosuke Ohi and Toshihiro Sankai	Investigation of the Influence of the Story Drift Angle of Buildings Caused by Earthquakes on Elevators
DAY2-SESSION2-ROOM2	2. Sustainable Construction and Resilient Infrastructure/Cities/Communities	Ming Shan	ROOM2	2	DAY2	30-Jul-24	13:15	13:30	112	Zhao Zhai, Li-Rong Lin and Ming Shan	ANALYSIS OF ENVIRONMENTALLY RESPONSIBLE BEHAVIOUR IN CROSS-SEA BRIDGE PROJECTS
			ROOM2	2	DAY2	30-Jul-24	13:30	13:45	113	Takuya Okumura, Takashi Kaneta and Sayaka Nishino	Study on Introductory Situation of Circular Economy in Architectural Design in Japan
			ROOM2	2	DAY2	30-Jul-24	13:45	14:00	131	Jongyoung Youn, Kyeongtae Jeong, Minge Jo, Jilye Kim and Donghoon Lee	Research on the Development of Magnetic Silicone MGS to Prevent Free-Form Deformation due to Lateral Pressure
			ROOM2	2	DAY2	30-Jul-24	14:00	14:15	140	Tsachiki Lin and Masazoyo Ogasawara	Feasibility analysis of water efficiency items in lead certification under different climatic conditions
			ROOM2	2	DAY2	30-Jul-24	14:15	14:30	123	Seoyoung Jung, Yongwon Cha and Seulki Lee	INFRASTRUCTURE SERVICE QUALITY MODEL BASED ON SERVQUAL: FOCUSED ON SOUTH KOREA
			ROOM2	2	DAY2	30-Jul-24	14:30	14:45	25	Heesang Kim, Kwang-Pyo Lee and Youngsoon Kim	An ISM-Based Methodology for Analyzing Interrelationships Among Influencing Factors in Reconstruction Projects
			ROOM2	2	DAY2	30-Jul-24	14:45	15:00	101	Kaicheng Shen, Shengyuan Lv and Weina Zhu	How does technological progress impact energy utilization efficiency in the construction industry: A Case of China
DAY2-SESSION3-ROOM2	2. Sustainable Construction and Resilient Infrastructure/Cities/Communities	Kozo Kadawaki	ROOM2	2	DAY2	30-Jul-24	15:15	15:30	144	Ryo Namishima and Kozo Kadawaki	How did the "inhabitable space shock" in Japan's suburbs arise and what will happen in the future?
			ROOM2	2	DAY2	30-Jul-24	15:30	15:45	169	Changlin Lee, Taeh Park and Yongseon Cha	Development of Infrastructure Maintenance Map based on GIS Data for Efficient Budget Management
			ROOM2	2	DAY2	30-Jul-24	15:45	16:00	194	Hui Guo and Meng Ye	Achieving competitive advantage for construction companies: Navigating the realm of corporate social responsibility
			ROOM2	2	DAY2	30-Jul-24	16:00	16:15	196	Sang-Bum Kim and Sang-Ho Cha	Synthesis and characterization of carbon based eco-friendly flame-retardant adhesive for building construction
			ROOM2	2	DAY2	30-Jul-24	16:15	16:30	203	Chi-Feng Chen, Cheng-Ting Wu and Jen-Yang Lin	Option 2) Material Flow Analysis of Construction and Demolition Wastes in Taiwan and their Sustainable Management
			ROOM2	2	DAY2	30-Jul-24	16:30	16:45	211	Weichang Yeh, Jiang-Jyh Chang and Tai-An Chen	Corrosion rate measurement of multiple reinforcements using the galvanostatic pulse technique with the guard ring
			ROOM2	2	DAY2	30-Jul-24	16:45	17:00	226	Ruijiao Zhang and Minyun Lee	Exploring the Impact of Housing Characteristics on Residential Photovoltaic Adoption in Hong Kong: A Comparative Survey of Housing Types and Homeownership
DAY3-SESSION1-ROOM2	2. Sustainable Construction and Resilient Infrastructure/Cities/Communities	Huiwen Wang	ROOM2	2	DAY3	31-Jul-24	10:30	10:45	232	Kiko Kojima and Kazuya Shide	Modern Building Values from an Economical Viewpoint
			ROOM2	2	DAY3	31-Jul-24	10:45	11:00	286	Shou-Heng Liu and Yu-Rou Lin	Sustainable coatings fabricated from inorganic wastes for indoor humidity control and degradation of formaldehyde
			ROOM2	2	DAY3	31-Jul-24	11:00	11:15	289	Wen YU, Huiwen Wang, Shuaan Wang and Xiebo Gu	Artificial Intelligence and Stochastic Optimization framework for Top Purpose Based Route Planning
			ROOM2	2	DAY3	31-Jul-24	11:15	11:30	292	Eun Sang Park, Seo Hyeon Kim, A Jin Jo, Ji Min Kim and Hyoun Seung Jang	Risk Analysis of the Sustainability of Energy Markets in Developing Countries Using GEM
			ROOM2	2	DAY3	31-Jul-24	11:30	11:45	268	Huang-Yu Chou, Yu-Te Wei, Yu-Ting Lai, Jun-Teng Zhuang, Jun-W Liu and Wen-Chin Chang	Performance Evaluation of Smart Street Lighting Systems Applying the PFI Model
			ROOM2	2	DAY3	31-Jul-24	11:45	12:00	244	Noor Hidayah Sanusi and Alias Mohamed	Modernizing Sewage Treatment Infrastructure: Sustainable Innovations at the Langat Centralized Sewage Treatment Plant
			ROOM2	2	DAY3	31-Jul-24	12:00	12:15	279	Soon Kim	Artificial Intelligence (AI)-enabled Decision Support System (DSS) for Developing a Disaster-Resilient Built Environment
DAY3-SESSION2-ROOM2	10. Industry Case Studies	Kazuya Shide	ROOM2	10	DAY3	31-Jul-24	13:15	13:30	20	Hirotaki Saito	Changes in Research and Development of Major General Contractors in Japan in the last 10 years: The Building Construction Business Sector
			ROOM2	10	DAY3	31-Jul-24	13:30	13:45	40	Huong-Thy Nguyen, Nguyen Hoang-Tung, Kieu Tri-Cuong and Kazuya Shide	Identifying barriers of BIM implementation in ODA projects in Vietnam
			ROOM2	10	DAY3	31-Jul-24	13:45	14:00	45	Yusuke Tanaka, Yoshiyuki Suzuki and Kenosuke Kobayashi	The Effectiveness of Life Cycle Assessment for Building Using Inventory Database "ICEA" in Japan
			ROOM2	10	DAY3	31-Jul-24	14:00	14:15	105	Yusuke Fujita	PARTS COMMERCIALIZATION METHOD IN THE "DESIGNER PARTS DIRECT SALES METHOD"—IN THE CASE OF THE FITTINGS SPECIALTY BRAND "KOTO"
			ROOM2	10	DAY3	31-Jul-24	14:15	14:30	198	Hyujin Son	Research on the redevelopment of Nuclear Power Plant Construction Management System in South Korea
			ROOM2	10	DAY3	31-Jul-24	14:30	14:45	207	Shoya Katsuta and Hirotaki Kanisawa	Research on Indian architecture production system
			ROOM2	10	DAY3	31-Jul-24	14:45	15:00	246	Go-eun Choi, Seo-joon Lee, Kyu-Hyeop Lee, Jun-sung Seo and Soowook Kwon	Business Model Development for Automatic Quality Inspection System of Temporary Structure Elements
ROOM2	10	DAY3	31-Jul-24	15:00	15:15	276	Hyujin Son	Quality Management Process and System of Nuclear Power Plant Construction in South Korea			

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## TECHNICAL PROGRAM PROCEEDINGS

### ROOM3 (DAY2&DAY3)

SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY2-SESSION1-ROOM3	3. Sensing and Data Analytics for Construction (AI & Data Science)	Tomoyuki Gondo	ROOM3	5	DAY2	30-Jul-24	10:30	10:45	26	Moh Shiqak, Kotaro Hayakawa, Ryojyu Akita, Michiko Shimizu and Mika Sakuramoto	Development and Verification of Safety Management Support System for Construction Sites Using Precipit and Weather Information
			ROOM3	5	DAY2	30-Jul-24	10:45	11:00	41	Mahmoud Roparokh, Sung-Han Sim, Min-Koo Kim and Yoon-Ki Choi	Dimensional Quality Assessment of Steel H-Beams Using Terrestrial Laser Scan Data
			ROOM3	5	DAY2	30-Jul-24	11:00	11:15	76	Manideep Tutimatapuhi, Bralay Riyat, Phornng Timmons, Sitakorn Banjaree and Chonchonda Opanasue	APPLICATIONS OF ARTIFICIAL INTELLIGENCE (AI) IN CONSTRUCTION PROJECT MANAGEMENT: A SYSTEMATIC LITERATURE REVIEW
			ROOM3	5	DAY2	30-Jul-24	11:15	11:30	77	Tomoyuki Gondo and Atsuhiko Yoshimura	WORK ANALYSIS OF PLASTERBOARD FINISHING WORKERS FOCUSED ON SMOOTHNESS OF ACTIVITIES USING ACCELEROMETERS
			ROOM3	5	DAY2	30-Jul-24	11:30	11:45	81	JaeHo Choi, Ayesha Maniv Chowdhury and Eun-Ju Ha	DATA MINING APPROACH FOR IDENTIFYING FACTORS IMPACTING CONSTRUCTION ACCIDENT COSTS: FROM INDIRECT EXPENSES PERSPECTIVES
			ROOM3	5	DAY2	30-Jul-24	11:45	12:00	243	Wu-Chih Chen, Kichang Choi, Vijayan Arun and Hongjo Kim	Vision-Based Contact-Aware Safety Monitoring with Safety Strip Analysis
DAY2-SESSION2-ROOM3	3. Sensing and Data Analytics for Construction (AI & Data Science)	Sota Seki	ROOM3	3	DAY2	30-Jul-24	13:15	13:30	104	Sota Seki, Kaede Fujita and Manabu Ishikawa	Development of Urban Information Platform for Cross-Domain Urban Design
			ROOM3	3	DAY2	30-Jul-24	13:30	13:45	114	Juhyeon Bae, Gaang Lee and Sanghyun Lee	EEG-based Stress Assessment for Construction Workers: A Comparison with High-Density Scalp EEG
			ROOM3	3	DAY2	30-Jul-24	13:45	14:00	119	Shogo Inadomi and Ping-Jo Chun	Enhancing Bridge Deterioration Prediction Using Element Adjacency Graphs by CSR-Processed Drawings: A Case Study of Girder Bridges in Japan
			ROOM3	3	DAY2	30-Jul-24	14:00	14:15	138	Heeoo Jung, Hyunseok Moon and Jeongsoo Kim	Analyzing Project Similarity in Korean Bidding Documents Using BERT
			ROOM3	3	DAY2	30-Jul-24	14:15	14:30	162	Youngh Park, Seonghyeon Moon, Jimoo Kim and Seokho Chi	Application of Domain-specific Thesaurus to Construction Documents based on Flow Margin of Semantic Similarity
			ROOM3	3	DAY2	30-Jul-24	14:30	14:45	174	Ronglu Hong, DongHeon Lee, Sang-Jun Park, Ju-Hyung Kim, Seungghyon Wang and Yongjin Won	Deep Learning-Based Methods for Inspecting Sand Quality for Ready Mixed Concrete
DAY2-SESSION3-ROOM3	3. Sensing and Data Analytics for Construction (AI & Data Science)	Mirko Kim	ROOM3	3	DAY2	30-Jul-24	15:15	15:30	219	Do Namgong and Seung H. Han	Identification of Social Conflict Stakeholders in Public Infrastructure Projects using ChatGPT
			ROOM3	3	DAY2	30-Jul-24	15:30	15:45	221	Sanghyeong Jeon, Seungjo Won, Yoonseok Shin and Wansung Yoo	A Proposal of Unstructured Document-based Safety Management Approach in Building Construction Projects
			ROOM3	3	DAY2	30-Jul-24	15:45	16:00	242	Teegwon Kim, Seokhwan Kim, Miryoo Koo, Minwoo Jeong and Hongjo Kim	Large Multimodal Model for Contact-aware Construction Safety Monitoring
			ROOM3	3	DAY2	30-Jul-24	16:00	16:15	206	Qian Jackson, Junshan Liu and Scott Wegner	UAV-Based Remote Sensing Survey for Quantification of Reach PI Construction Projects
			ROOM3	3	DAY2	30-Jul-24	16:15	16:30	213	Fanheng Kong and Seungmin Ahn	A framework to automatically transform BIM text file into knowledge graph
			ROOM3	3	DAY2	30-Jul-24	16:15	16:30	213	Fanheng Kong and Seungmin Ahn	A framework to automatically transform BIM text file into knowledge graph
DAY3-SESSION1-ROOM3	3. Sensing and Data Analytics for Construction (AI & Data Science)	Jacob J. Lin	ROOM3	3	DAY3	31-Jul-24	10:30	10:45	252	Phong Linh Lu and Jacob J. Lin	Technical Requirements for Applying Digital Technologies in Monitoring Unstable Activities during the Construction Phase
			ROOM3	3	DAY3	31-Jul-24	10:45	11:00	253	Yajin Shin, Seungwon Seo and Choonwan Koo	Sensitivity Analysis of Excavator Activity Recognition Performance based on Surveillance Camera Locations
			ROOM3	3	DAY3	31-Jul-24	11:00	11:15	264	Minwoo Jeong, Teegwon Kim, Seokhwan Kim and Hongjo Kim	Retrieval-Augmented Generation-based Question Answering Technology for Construction Safety
			ROOM3	3	DAY3	31-Jul-24	11:15	11:30	265	Jungjaek Hong, Jimoo Song, Ali Akbar, Sangi Son, Sangmin Yang and Soowook Kwon	Construction Quality Management based on Digital Twin Using Autonomous Scanning UGV
			ROOM3	3	DAY3	31-Jul-24	11:30	11:45	269	Jinghoon Kim, Insoo Jeong, Seungmin Lim, Jeongbin Heang and Seokho Chi	3D Visualization and Work Status Analysis of Construction Site Objects
			ROOM3	3	DAY3	31-Jul-24	11:45	12:00	270	Insoo Jeong, Junghoon Kim, Seungmin Lim, Jeongbin Heang and Seokho Chi	Training Dataset Generation through Generative AI for Multi-Modal Safety Monitoring in Construction
DAY3-SESSION2-ROOM3	3. Sensing and Data Analytics for Construction (AI & Data Science)	Habib Sadri	ROOM3	3	DAY3	31-Jul-24	13:15	13:30	290	Habib Sadri and Ezatam Yitmen	Trends in the Adoption of Artificial Intelligence for Enhancing Built Environment Efficiency: A Case Study Analysis
			ROOM3	3	DAY3	31-Jul-24	13:30	13:45	296	Shin Chang Dug, Gansik Kollappan Gedha and Sung-Han Sim	Mobile-based Dimension Measurement for Precast Concrete Panels Using Deep Learning and Image Processing
			ROOM3	8	DAY3	31-Jul-24	13:45	14:00	23	Masaki Chino and Atsushi Yamashita	Location Measurement System for Automated Operation of Construction Machinery Using Visual SLAM
	8. Automation in Construction (Robotics)	Masaki Chino	ROOM3	8	DAY3	31-Jul-24	14:00	14:15	27	Masoud Khan, Maxwell Foforou Arinze-Abasi, Joseph Seo, Shahinawaz Arwer and Kaban Heang	Applications, Challenges, and Future Research Directions for Passive Exoskeletons in the Construction Industry: A Critical Review
			ROOM3	8	DAY3	31-Jul-24	14:15	14:30	44	Shidao Takaoze and Kazuya Shiba	Optimal Route Optimization for Autonomous Robots Using BIM
			ROOM3	8	DAY3	31-Jul-24	14:30	14:45	115	Felix Bask, Juhyeon Bae, Changbum Ahn and Sanghyun Lee	The Effects of a Co-Worker's Cognitive Responses on Human-Robot Team Productivity in Construction
DAY3-SESSION3-ROOM3	8. Automation in Construction (Robotics)	Brian Guo	ROOM3	8	DAY3	31-Jul-24	14:45	15:00	139	Muhammad Ezzatim Abbas, Nissallah Khan, Syed Farhan Aamir Zaidi, Raheer Hussain, Asma Sabir, Doyeop Lee and Chansik Park	CV-Based Mobile Application to Enhance Real-time Safety Monitoring of Ladder Accidents
			ROOM3	8	DAY3	31-Jul-24	15:15	15:30	168	Bei-Hen Chen, Do-Kwan Kim and Se-Jun Jang	Performance Analysis of Autonomous Mobile Robot Navigation Using AR/Co Markers
			ROOM3	8	DAY3	31-Jul-24	15:30	15:45	193	Jia-Chen Guo, Cao-Yin Liang, Cheng-Hui Ye, Chao-Yin Huang, Wei-Chuan Wang and Ming-Gin Lee	Influence of polypropylene fibers and poly(methyl)oxymethane on mechanical property and drying shrinkage of 3d printed concrete
			ROOM3	8	DAY3	31-Jul-24	15:45	16:00	217	Brian Guo, Yonger Joo, Yang Mwang Goh and Jae-Yong Lim	Errors in Human-Robot Interaction Accidents: A Taxonomy and Network Analysis
			ROOM3	8	DAY3	31-Jul-24	16:00	16:15	266	Seokhyeon Jm, Dabin Lee, Dohyeon Lee, Chansik Park and Dongmin Lee	Intelligent Host Control Based on Computer Vision
			ROOM3	3	DAY3	31-Jul-24	16:15	16:30	212	Ju-Yong Kim, Youngjo Sung, Sanghae Kim and Gwang-Hae Kim	Wireless Construction Strength Monitoring System for Estimating Concrete Strength by the Maturity Method
ROOM3	8	DAY3	31-Jul-24	16:30	16:45	152	Hanyu Liang, Hongyang Zhao, Sayedeh Falehmi-Gulzar and Daeho Kim	Enhancing Excavator 3D Pose Estimation Using Real-time Genetic Data Synthesis			
ROOM3	8	DAY3	31-Jul-24	16:45	17:00	170	Young Jae Song and Se Jun Jang	Comparative analysis of the performance of GPS system for outdoor construction site SLAM (Simultaneous Localization and Mapping) and navigation for mobile robot			



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## TECHNICAL PROGRAM PROCEEDINGS

### ROOM4 (DAY2&DAY3)

SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY2-SESSION1-ROOM4	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	Zeru Liu /Jung In Kim	ROOM4	4	DAY2	30-Jul-24	10:30	10:45	32	Jongwo Cho, Jyu Shin and Tawen Ken	A framework for 4D analysis of construction safety using a site information model
			ROOM4	4	DAY2	30-Jul-24	10:45	11:00	42	Haequn Chong and Sung-Ah Kim	Systematic Literature Review of Korean Research for the Integration of VR, AR, and MR Technologies in Construction BIM: An Exploration Across the Construction Lifecycle
			ROOM4	4	DAY2	30-Jul-24	11:00	11:15	47	Muhammad Tajammal Khan	Building Information Model (BIM) and Geotechnical Baseline Report (GBR) for Improving Project Management Tools of Underground Works
			ROOM4	4	DAY2	30-Jul-24	11:15	11:30	49	Qinghao Zeng, Taek Kiha and Paride Pishdad-Bozorg	A Review of BIM-Enabled Daylighting Control System for Office Buildings
			ROOM4	4	DAY2	30-Jul-24	11:30	11:45	64	Zeru Liu, Wuhao Huang, Hejun Xu, Shing Li and Jung In Kim	FC Data Schema Extension for Railway Track Facility Management
			ROOM4	4	DAY2	30-Jul-24	11:45	12:00	65	Ke Da, Shuhan Yang, Zeru Liu, Jung In Kim and Min Jae Suh	Slope design optimization for road cross section using genetic algorithm based on BIM
			ROOM4	4	DAY2	30-Jul-24	12:00	12:15	56	Minhyuk Jung, Jaemoek Choi, Seonjo Joo, Heekyung Chun and Wonsuok Choi	Neural Network based generative design framework for industrial plant layout planning
DAY2-SESSION2-ROOM4	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	Bongsang Koo	ROOM4	4	DAY2	30-Jul-24	13:15	13:30	73	Shivan Kim, Wosook Lee, Youngsu Yu, Haen Jeon and Bongsang Koo	Employing Ontology and Machine Learning for Automatic Clash Detection and Classification in Multi-disciplinary BIM Models
			ROOM4	4	DAY2	30-Jul-24	13:30	13:45	75	Jihye Han, Minseo Jang, Do Hyung Shin and Sungwon Woo	Technology for classifying point cloud data through AI and automatically deriving location and length information in 3D space based on scan to bim
			ROOM4	4	DAY2	30-Jul-24	13:45	14:00	86	Kieu Thi Cuong, Shide Kazuya and Nguyen Hoang Tung	LCA calculation methods using BIM at the basic design stage: A focus on matching BOM and CO2 room data using Uniclass and IDEA
			ROOM4	4	DAY2	30-Jul-24	14:00	14:15	110	Kamyar Fatafmir, Qinghao Zeng, Ali Tayeban Yazdghaba and Paride Pishdad-Bozorg	Multi-objective Generative Design based on Outdoor Environmental Factors: An Educational Complex Design Case Study
			ROOM4	4	DAY2	30-Jul-24	14:15	14:30	122	Moosun Park, Inseong Kim, Gulsuk Kim and Seokyoung Won	Establishing an Integrated Control Platform Architecture for Hydrogen Pipe Network
			ROOM4	4	DAY2	30-Jul-24	14:30	14:45	132	Akseem Pardo, Mehtash Soltani, Rahaf Hussain and Charisk Park	The Metaverse in Construction: Foundations, Frameworks, and Potentials
			ROOM4	4	DAY2	30-Jul-24	14:45	15:00	143	Agda Sabri, Rahat Hussain, Akseem Pardo, Mehtash Soltani, Dongmin Lee, Charisk Park and Jae-Ho Pyeon	Synthetic Data Generation with Unity 3D and Unreal Engine for Construction Hazardous Scenarios: A Comparative Analysis
DAY2-SESSION3-ROOM4	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	Sung-Jae Bae	ROOM4	4	DAY2	30-Jul-24	15:15	15:30	154	Ali Khoodabakhshi, Jay Woong Park and Unnesa Ray	Applications of Agent-Based Modeling (ABM) in Planning and Design of Built Environments
			ROOM4	4	DAY2	30-Jul-24	15:30	15:45	164	Sung-Jae Bae, Miiji Song, Eunji Choi, Chan-Jin Kim, Jun-beom Park, Young Suk Kim and Jung-Yeol Kim	Point Cloud Segmentation Method Considering Wall Finishing Information Using 2D Material Segmentation and Back Projection
			ROOM4	4	DAY2	30-Jul-24	15:45	16:00	167	Jae-ho Jang, Jin-Bin Im, En-Lian Zhang, Moon-Boo Joo, Shin-Hyun Kang and Ju-Hyung Kim	A Framework for Assessing the Learning Performance and Creativity in Spatial Features by Immersive Virtual Environments
			ROOM4	4	DAY2	30-Jul-24	16:00	16:15	172	Du Li, Huijun Lin Chi and Ying Wang	Enhancing On-Site Construction Machinery Handling through 3D Spatial Gesture-Based Trajectory Interpreter Modeling
			ROOM4	4	DAY2	30-Jul-24	16:15	16:30	199	Chao-Ying Lin and I-Chen Wu	Real-time simulation and control of indoor air exchange volume based on Digital Twin Platform
			ROOM4	4,7	DAY2	30-Jul-24	16:30	16:45	209	Tawon Kim and Inhan Kim	BIM application in Quantitative Assessment of High-Speed Information and Communication Criteria for Building Certification
			ROOM4	4	DAY2	30-Jul-24	16:45	17:00	181	Jae-Wan Park, Wosook Jang, Seoung Beom Na, Kyung-Ho Chin, Jae-Goo Han and Keung PI Park	Estimation of Overcut and Undercut Volume in Tunnel Construction Project using 3D Model
DAY3-SESSION1-ROOM4	4. Visualization, Information Modeling, and Simulation (Digital Twin, AR/VR, BIM)	I-Chen Wu	ROOM4	4	DAY3	31-Jul-24	10:30	10:45	200	Yen-Min Hsu and I-Chen Wu	Automatic Ductwork BIM Generation System for Analyzing HVAC System Conflicts
			ROOM4	4	DAY3	31-Jul-24	10:45	11:00	214	Sohee Jeong, Dayeon Yang and Geonhee Kim	Importance analysis of BIM utilization by construction management companies
			ROOM4	4	DAY3	31-Jul-24	11:00	11:15	216	Keneth Park and Sungkoi Moon	Is 3D Scanning and Modeling Beneficial for Housing Sector?
			ROOM4	4	DAY3	31-Jul-24	11:15	11:30	227	Myunghoun Jang and Dongyu Ch	Method to Manage Building Construction Safety Using Photogrammetry
			ROOM4	4	DAY3	31-Jul-24	11:30	11:45	234	Sou Musakami and Kazuya Shide	Proposal of a virtual room using MR technology and research on its effectiveness
			ROOM4	4	DAY3	31-Jul-24	11:45	12:00	254	Dajeong Choi and Choongwan Koo	An Integrated Platform for Assessing the Efficacy of Immersive Virtual Reality Experiences through Biometric Response Analysis
			ROOM4	4	DAY3	31-Jul-24	12:00	12:15	267	Yong-Ju Lee, Linh Nguyen and Man-Woo Park	Superimposing 3D Models on Real Scenes Based on the Reinforcement Learning using Visual Observations
DAY3-SESSION2-ROOM4	7. Building Science (Energy Modeling, Facility Management)	Ryoyu Tanaka / Kosei Ishida	ROOM4	7	DAY3	31-Jul-24	13:15	13:30	58	Keiki Fukumura, Daitsuke Nakagawa, Tomohiko Watanabe, Kenji Otsuka, Shunichi Fujii, Daichi Hanikita, Ryoga Otsuka and Kazuya Shide	Proposal for a maintenance management system using point clouds
			ROOM4	7	DAY3	31-Jul-24	13:30	13:45	68	Kyoungun Jung, Handon Kim, Minjae Lee, Donggeun Oh, Jimin Kim and Hyunsang Jang	Discrepancy between South Korea's ZEB Certification System and its Real Energy Saving Effects: An Empirical Analysis
			ROOM4	7	DAY3	31-Jul-24	13:45	14:00	70	Ryoyu Tanaka and Kosei Ishida	CREATION OF A BIM-BASED FACILITY MAINTENANCE AND MANAGEMENT DATA ANALYSIS PLATFORM
			ROOM4	7	DAY3	31-Jul-24	14:00	14:15	153	Dagim Derese Gebremichael, Zhenhui Jin, Yunsuub Lee and Youngsoo Jung	Facility Asset Management (FAM) Business Function from the Context of Smart Buildings (SBs)
			ROOM4	7	DAY3	31-Jul-24	14:15	14:30	160	Zhenhui Jin, Dagim Derese Gebremichael, Seunghee Kang, Yunsuub Lee and Youngsoo Jung	Exploring the Functional Breakdown Structure (FBS) of Facility Asset Management (FAM) for Smart Factories
			ROOM4	7	DAY3	31-Jul-24	14:30	14:45	279	Minho Kim, San Jin, Ahmin Jang, Beunggyong Park and Sung Lok Do	Simulated Analysis on Cooling System Performance Influenced by Faults Occurred in Entropy Sensor for Economizer Control
			ROOM4	7	DAY3	31-Jul-24	14:45	15:00	283	Ahmin Jang, San Jin, Minho Kim, Beunggyong Park and Sung Lok Do	Evaluation of Cooling Energy Consumption Varying Economizer Control and Heat Generation Rates from IT Equipment in Data Center
ROOM4	7	DAY3	31-Jul-24	15:00	15:15	291	Minji Baek, Hyunsang Cho, Doyoung Lee, Jeonghwan Seo, Hyunsung Jang and Jimin Kim	Analysis of Optimal Placement Proposal of HVAC System in Smart Greenhouse using CFD Simulation			

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## TECHNICAL PROGRAM PROCEEDINGS

### ROOM5 (DAY2&DAY3)

SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY2-SESSION1-ROOM5	6. Advanced Project Management & Control (Scheduling, Estimating, QA/QC, Risk/Safety Management)	Koji Tanaka	ROOM5	6	DAY2	30-Jul-24	10:30	10:45	2	Chang-Yong Yi, Young-Jun Park, Tae-Yong Go, Jin-Young Park, Hyung-Kwon Park and Dong-Eun Lee	Automated Data Collection and Intelligent Management System for Construction Site Disaster Prevention
			ROOM5	6	DAY2	30-Jul-24	10:45	11:00	6	Koji Tanaka	Problems of construction cost measurement models from the aspect of users in England
			ROOM5	6	DAY2	30-Jul-24	11:00	11:15	10	Shi Tang and Kazuya Shide	Comparative Analysis of BIM-Enabled Construction Cost Estimation Practices: A Case Study of Japan and China
			ROOM5	6	DAY2	30-Jul-24	11:15	11:30	11	Vivek Sharma, Vijaya Rav Prasanth Reddy, Abdul Sohal Mohammed and Jong Han Yoon	Quality-based performance comparison of design build and design-bid-build project delivery methods for warehouses and self-storage facilities
			ROOM5	6	DAY2	30-Jul-24	11:30	11:45	22	Jiseop Rhe, Minseo Jang, Do Hyoung Shin, Hyungsoo Han and Seungwoo Lee	Methodology To Prevent Local Optima And Improve Optimization Performance For Time-Cost Optimization Or Reinforcement-Learning Based Construction Schedule Simulation
ROOM5	6	DAY2	30-Jul-24	12:00	12:15	195	Mohd Nasir Saari and Mustafa Man	JSetaras: A new innovation model for rate rationalization in contract documents			
DAY2-SESSION2-ROOM5	6. Advanced Project Management & Control (Scheduling, Estimating, QA/QC, Risk/Safety Management)	Jacob J. Lin	ROOM5	6	DAY2	30-Jul-24	13:15	13:30	28	Miki Watanabe, Kyoungsoo Kim, Jacob J. Lin and Chun-Shan Chen	Worker Accountability in Computer Vision for Construction Productivity Measurement: A Systematic Review
			ROOM5	6	DAY2	30-Jul-24	13:30	13:45	52	Hyunsook Kim, Zhenjie Zhao, Woohyuk Jeon, Sungki Kim and Byungsoo Kim	Research on the Risk weight setting method for NATM Tunnel Project Construction Risk assessment
			ROOM5	6	DAY2	30-Jul-24	13:45	14:00	53	Saigalle Vinut Girimathila Karunaratne, Dong Il Kim, Nam Ju Park and Byung Soo Kim	Establishment of High-risk Management Standards for NATM Tunnels by Combining the ALARP Method and SML
			ROOM5	6	DAY2	30-Jul-24	14:15	14:30	71	Hyunchul Oh, Sangho Byun and Khyun Baek	A Study on Productivity Analysis of Quality Management System in Construction Site
			ROOM5	6	DAY2	30-Jul-24	14:30	14:45	39	WooWon Jo, Yejun Lee, Daegyo Jung, Hyunjung Park and JungHo Jeon	Computer Vision-based Construction Hazard Detection via Data Augmentation Approach using Generative-AI
DAY2-SESSION3-ROOM5	6. Advanced Project Management & Control (Scheduling, Estimating, QA/QC, Risk/Safety Management)	Yanying Zhang	ROOM5	6	DAY2	30-Jul-24	15:15	15:30	80	Da Hee Kim, Chan Hyuk Park, Wang Young Jung, Wi Sung Yoo, Joon Seo Lee and Seong Mi Kang	Analyzing Productivity Enhancement and Task Replacement Rates in Digitized Construction Supervision Process: A Comprehensive Study with Construction Supervision Checklists in South Korea
			ROOM5	6	DAY2	30-Jul-24	15:30	15:45	107	Yanying Zhang, Yue Teng and Xiao Li	Tabu search-based multi-objective optimization of work package schemes to minimize project costs and carbon emissions
			ROOM5	6	DAY2	30-Jul-24	15:45	16:00	121	Ju Hui Lee, Sangbeak Lee, Jyong Choo and Sungmin Yun	Benchmarking Complaint Management of Public Construction Projects in Korea
			ROOM5	6	DAY2	30-Jul-24	16:00	16:15	137	Taegeun Yoon and Seubi Lee	Identifying Environmental Factors near Construction Sites Affecting Pedestrian Safety
			ROOM5	6	DAY2	30-Jul-24	16:15	16:30	156	Aniruya Hapsari and Ying-Yi Chih	Exploring the Effect of Beneficiary Engagement on International Development Projects Performance: A Project Life Cycle Perspective
			ROOM5	6	DAY2	30-Jul-24	16:30	16:45	157	Erika Muscolo and Ying-Yi Chih	Exploring the Effects of Shared Leadership on Project Virtual Team Performance
ROOM5	6	DAY2	30-Jul-24	16:45	17:00	179	Hiroguchi Nobuyoshi	Research on Improving the Decision-Making Environment in Architectural Projects Through the Use of General Digital Technology			
SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY3-SESSION1-ROOM5	6. Advanced Project Management & Control (Scheduling, Estimating, QA/QC, Risk/Safety Management)	Nan Li	ROOM5	6	DAY3	31-Jul-24	10:30	10:45	197	Yutaka Hayasaka, Kazuya Matsumoto and Yutsuke Iida	Nomura Real Estate Initiatives & Promotion Structure System
			ROOM5	6	DAY3	31-Jul-24	10:45	11:00	205	Karen Camargo, Junshan Liu and Scott Kramer	Enhancing Construction Safety through Wearable Technology – A Study of Employee Acceptance and Adoption in the USA/CE
			ROOM5	6	DAY3	31-Jul-24	11:00	11:15	208	Taisei Hiruma and Kazuya Shide	Clarification of question and answer documents in cost estimation work using quantitative analysis
			ROOM5	6	DAY3	31-Jul-24	11:15	11:30	218	Eric Joshua Nyato, Chansik Park, Beomin Lee and Emmanuel C Kimio	A Conceptual Blockchain and Token-Incentive Approach for Near Miss Reporting in Construction
			ROOM5	6	DAY3	31-Jul-24	11:30	11:45	225	Yiqin Yu, Yao Wang, Wenqi Li, Yueheng Huang and Dongqing Fang	Comparative Analysis of Construction Safety Culture in Australia and China: A Systematic Literature Review
			ROOM5	6	DAY3	31-Jul-24	11:45	12:00	228	Seungwon Seo and Choongwon Koo	Optimization of 3D RiskNet Depth for Domain Adaptation in Excavator Activity Recognition
DAY3-SESSION2-ROOM5	6. Advanced Project Management & Control (Scheduling, Estimating, QA/QC, Risk/Safety Management)	Atsushi Tamura	ROOM5	6	DAY3	31-Jul-24	13:15	13:30	229	Seun Han and Choongwon Koo	Enhancing Automated Recognition of Small-Sized Construction Tools Using Synthetic Images: Validating Practical Applicability Through Confidence Scores
			ROOM5	6	DAY3	31-Jul-24	13:30	13:45	235	Yaling Zhang and Jayu Chen	Challenges and Improvement Methods for Monitoring Workload of Construction Workers through EEG
			ROOM5	6	DAY3	31-Jul-24	13:45	14:00	238	Juhak Lee, Jinwoo Won and Seung H Han	Challenges for implementing smart construction in Korean construction industry using MICMAC-ISM approach
			ROOM5	6	DAY3	31-Jul-24	14:00	14:15	248	Wenshi Shen, Xiaofan Zhai and Jingjie Xiong	Enhancing Program Risk Management: A Social Network Approach
			ROOM5	6	DAY3	31-Jul-24	14:15	14:30	255	Kazuto Otani	Risk management of international construction joint ventures - Analysis of factors for success or failure of international JV projects in global areas (OPTION 2)
			ROOM5	6	DAY3	31-Jul-24	14:30	14:45	260	Kaoru Haga and Kazuya Shide	Research on Estimation Price Creation Methodology for RC Structures in BIM
DAY3-SESSION3-ROOM5	6. Advanced Project Management & Control (Scheduling, Estimating, QA/QC, Risk/Safety Management)	Heesung Cha	ROOM5	6	DAY3	31-Jul-24	15:15	15:30	272	Seonghyun Ahn, Seungwon Seo and Choongwon Koo	Enhancing Automated Multi-Object Tracking with Long-Term Decisions across Consecutive Frames for Heavy Construction Equipment
			ROOM5	6	DAY3	31-Jul-24	15:30	15:45	293	Jiq Zhang and Kazuya Shide	A Systematic Literature Review on Integrated AI in Construction Project Scheduling with BIM
			ROOM5	6	DAY3	31-Jul-24	15:45	16:00	17	Seun Jo, Hyunchang Cho, Seun Chul Min, Baek, Hyeonseung Jang and Jimin Kim	KOREAN CONSTRUCTION PROJECT MANAGER'S CAPABILITY CHANGE OVER THE LAST DECADE
			ROOM5	6	DAY3	31-Jul-24	16:00	16:15	78	Seung-Mo Cho, Heesung Cha and Bo-Sik Son	HYBRID DEEP LEARNING ALGORITHM ON COMPUTER VISION-BASED DEFECT DETECTION FOR BUILDING CONSTRUCTION

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## TECHNICAL PROGRAM PROCEEDINGS

### ROOM6 (DAY2&DAY3)

SESSION CODE	SESSION THEME	SESSION CHAIR	ROOM	Theme	DAY	DATE	START	FINISH	Paper Number	Authors	Title
DAY2-SESSION1-ROOM6	1. Industrialized and Modular Construction	Jeeyoung Lim	ROOM6	A	DAY2	30-Jul-24	10:30	10:45	34	Jeeyoung Lim, Sunkuk Kim and Ayoma Dita Rasasli	A Basic Study on Comparative Analysis of the Characteristics and Performance of Different Types of Mechanical Rebar Coupler for Sustainable Built Environment
			ROOM6	A	DAY2	30-Jul-24	10:45	11:00	67	Wei-Yi Qian, Yun-Tsu Chang and Shang-Hsien Hsieh	The Nexus of Modularity, MEP, and BIM: Rethinking High-Rise Housing Developments
			ROOM6	A	DAY2	30-Jul-24	11:00	11:15	100	Chaeyoon Yu, Hajeong Jeong and Sungjin Kim	Survey-based User Perception Analysis for Off-site Construction in Institutional Building
			ROOM6	A	DAY2	30-Jul-24	11:15	11:30	108	Kaoshan Wu, Yue Teng, Geoffrey Qiping Shen and Jingke Hong	Measuring and reducing the embodied carbon in high-rise buildings through innovative modular construction
			ROOM6	A	DAY2	30-Jul-24	11:30	11:45	186	Shuyuan J., Yuechuan Wang and Yingmin Li	Optim1 : Research on Risk Quantification of PC Components Production Scheduling Based on DBR
			ROOM6	A	DAY2	30-Jul-24	11:45	12:00	249	Xiaokang Zou, Jiang Huang, Weijie Lu, Jun Shi, Zhen Zhao and Tian Shi	New Composite Wall Inner Tie System Applied in Reinforced Concrete Modular Integrated Construction
DAY2-SESSION2-ROOM6	5. Advanced Project Delivery and Contracting	Jun Okoshi	ROOM6	S	DAY2	30-Jul-24	13:15	13:30	5	Jun Okoshi and Kazuya Shide	Study on Front-Loading Utilizing Engineering and BIM in Steel Fabricators
			ROOM6	S	DAY2	30-Jul-24	13:30	13:45	88	Yujia He and Lei Shi	Effect of Internal Conflicts among Private Sponsors on Bundling and Risk Sharing in PPP Projects
			ROOM6	S	DAY2	30-Jul-24	13:45	14:00	190	Daniami Salla, Shehu Bustani, Sani Kurya, Anas Adamu and Janet Nwagwu	SOFT TEAM-BUILDING SUPPORT SYSTEM ON TENDER EVALUATION COMMITTEES IN PUBLIC PROCURING ENTITIES
			ROOM6	S	DAY2	30-Jul-24	14:00	14:15	224	Hirotsugu Kobayashi and Kazuya Shide	Research on BE/PER formulation methodology
			ROOM6	S	DAY2	30-Jul-24	14:15	14:30	150	Samuel Quashie and Peter Farrell	PhD Research Design and Descriptive Theory Building: Theoretical Framework for Development of a Post-Disaster Reconstruction Management Phase Integrated Management System.
		ROOM6	S	DAY2	30-Jul-24	14:45	15:00	220	Toshihiko Omoto and Shingo Ohno	Navigating Construction Conflicts: The Role of Dispute Boards in Achieving Efficient Resolution	
DAY2-SESSION3-ROOM6	9. Lean Design and Construction	Sei Hayashi	ROOM6	S	DAY2	30-Jul-24	15:15	15:30	63	Sei Hayashi and Tomoyuki Gondo	Practical training of 'from production to design' by using digital fabrication tool in the university education
			ROOM6	S	DAY2	30-Jul-24	15:30	15:45	116	Mekonnen Tibebe Chekol and Michael Henry Henry	FACTORS AFFECTING ROAD CONSTRUCTION PROJECT PERFORMANCE IN ADDIS ABABA, ETHIOPIA
			ROOM6	S	DAY2	30-Jul-24	15:45	16:00	280	Dongsoo Kim, Sangik Lee, Jonghyuk Lee, Byung-hun Seo, Yejin Seo, Dongwoo Kim, Yeim Jo and Won Chul	Domain Knowledge Based Approach for Design Optimization of Arch Dams Using Genetic Algorithms
			ROOM6	S	DAY2	30-Jul-24	16:00	16:15	284	Dongsoo Kim, Sangik Lee, Jonghyuk Lee, Byung-hun Seo, Dongsoo Kim, Yejin Seo, Yeim Jo and Won Chul	Cost Optimization of Doubly Reinforced Concrete Beam through Deep Reinforcement Learning without Labeled Data
			ROOM6	S	DAY2	30-Jul-24	16:15	16:30	231	Ayako Omura	Integrating Design, Construction and Logistics in Japan and Overseas CLT Building Projects
DAY3-SESSION1-ROOM6	11. Construction in Extreme Environments (Future of Space Exploration) 12. Education and Diversity/Inclusion in Construction Workforce	Rumiko Sasaki	ROOM6	11	DAY3	31-Jul-24	10:30	10:45	55	Yusuke Hozumi, Takahiro Wakita, Ayato DOI, Hiroo Takaguchi, Tatsuzo Iden, Shinjiro Umezaki and Yui Miyazaki	3D Printed Joining System Inspired by Traditional Japanese Wooden Joinery for ISRU
			ROOM6	12	DAY3	31-Jul-24	10:45	11:00	8	Rumiko Sasaki and Tomoyuki Gondo	A study on migrant workers in Japanese construction industry
			ROOM6	12	DAY3	31-Jul-24	11:00	11:15	30	Changhaek Son, WonSang Shin and Junyoung Lee	Analysis of Job Stress of Construction Engineers and Resolution Plan
			ROOM6	12	DAY3	31-Jul-24	11:15	11:30	161	Sayaka Nishino	Transformation of Expertise and Adaptation Process in Changing Professional Occupation
			ROOM6	12	DAY3	31-Jul-24	11:30	11:45	173	Haeili Lin, Junyu Chen and Hung-Lin Chi	KnowLearn: Evaluating cross-subjects interactive learning by deploying knowledge graph
			ROOM6	12	DAY3	31-Jul-24	11:45	12:00	273	Aino Suzuki	The Future of Tatami Outside Japan
			ROOM6	None	DAY3	31-Jul-24	12:00	12:15	297	Ahmed Ghalthan	Factors influencing turnaround projects duration in petrochemical industry in Saudi Arabia
			ROOM6	None	DAY3	31-Jul-24	12:15	12:30	13	Ren Sakuragawa, Hideto Kaneko and Tomoyuki Gondo	Changes in the Information Transfer of Wooden Post and Beam Construction with Pre-cutting in Japan
DAY3-SESSION2-ROOM6	Multiple topics	Leting Zu	ROOM6	None	DAY3	31-Jul-24	13:15	13:30	134	Leting Zu and Wenzhu Liao	Multi-objective production scheduling of precast concrete based on reinforcement learning
			ROOM6	None	DAY3	31-Jul-24	13:45	14:00	146	Jingta Zhang and Shaohua Jiang	Prevention and treatment of Construction Quality Problems Based on Text Mining
			ROOM6	None	DAY3	31-Jul-24	14:00	14:15	288	Jeevock Lee and Sung Ho Hong	Analysis of the Building Demolition Process of the Republic of Korea Based on Case Study
			ROOM6	None	DAY3	31-Jul-24	14:15	14:30	269	Zhongnan Ye, Xiaoyi Liu and Shu-Chien Hsu	Towards Carbon Neutrality in Steel Construction: Cradle-to-Cradle Carbon Management through Life-Cycle Assessment



# ICCEPM2024 Sapporo

## BUSINESS SEMINARS & WORKSHOPS

### Auditoriums (Upper Floor and Lower Floor)

Business Seminars	Date	AM/PM	Auditorium	Start	Finish	Speaker
Business Seminars	29th July	PM	Lower Floor	16:00	17:00	Nomura Real Estate
Business Seminars	30th July	AM	Upper Floor	11:00	12:00	Autodesk APAC
		AM	Lower Floor	11:00	12:00	Shimizu Corporation
		PM	Upper Floor	13:00	14:00	Dispute Resolution Board Foundation
		PM	Lower Floor	13:00	14:00	Nohara Group
		PM	Upper Floor	14:00	15:00	Yamashita PMC
		PM	Lower Floor	14:00	15:00	CYPE
		PM	Upper Floor	15:00	16:00	CBRE
		PM	Lower Floor	15:00	16:00	Japan Federation of Construction Industry Specialized Group Society
Business Seminars	31st July	AM	Upper Floor	11:00	12:00	Tokyo Electric Power Company
		AM	Lower Floor	11:00	12:00	Growup
		PM	Upper Floor	13:00	14:00	Oracle
		PM	Lower Floor	13:00	14:00	Naya Company
		PM	Upper Floor	14:00	15:00	Turner & Townsend
		PM	Lower Floor	14:00	15:00	Photoruction
		PM	Upper Floor	15:00	16:00	Pacific Century Premium Developments
		PM	Lower Floor	15:00	16:00	Takenaka Corporation
	PM	Lower Floor	16:00	17:00	Oracle seminar for students	

### Day1- July 29(Mon), 2024

**Nomura Real Estate**

Shuhei Yamamura, Yusuke Ida



### Auditoriums

16:00-17:00PM

Seven Arrows: Our Strategic Compass for Value Creation

# ICCEPM2024 Sapporo

**Day2- July 30(Tue), 2024**

**Auditoriums**

**Autodesk APAC**

**11:00AM-12:00PM**

Dr. Liyuan Takahashi



Case studies of Autodesk platforms applied to the built environment sectors.

**Shimizu Corporation**

**11:00AM-12:00PM**

Jun Okoshi



Development and application of BIM and Digital transformation (DX) from contractors' perspective

**Dispute Resolution Board Foundation**

**13:00-14:00PM**

Prof Toshihiko Omoto, Shingo Ohno



Navigating construction conflicts: The role of dispute boards in achieving efficient resolution

**Nohara Group**

**13:00-14:00PM**

Kosuke Nohara



A view from construction supply chain company. What are the pains at the construction sites and practical solutions

# ICCEPM2024 Sapporo

**Day2- July 30(Tue), 2024**

**Auditoriums**

**Yamashita PMC**

**14:00-15:00PM**

Yasuyuki Gonai



Variations and project management methods in international construction projects into Japan and from Japan

**CYPE**

**14:00-15:00PM**

Kentaro Tanaka



Open BIM CDE- its transmitting capability and case studies on analysis energy demand & consumption

**CBRE**

**15:00-16:00PM**

Hisanao Kajiura



Current issues of project management professionals in Japan, Asia and beyond

**Japan Federation of Construction Industry Specialized Group Society 15:00-16:00PM**

Shogo Iwata



The future of sustainable construction industry from the specialist builders' perspective

# ICCEPM2024 Sapporo

**Day3- July 31(Wed), 2024**

**Auditoriums**

**Tokyo Electric Power Company**

**11:00AM-12:00PM**

Dr. Hiroshi Okamoto, Dr. Masahiro Tanaka



The fourth industrial revolution empowered by End-to-End Electric Power System, for sustainable built environment

**Growup**

**11:00AM-12:00PM**

Yoshihide Yoneda



Case studies of “Hand-thrown fire extinguisher”- technological and legal challenges to secure an escape route for buildings and other facilities in Japan and Asia.

**Oracle**

**13:00-14:00PM**

James Read



Project Management Information Systems – Leveraging the future today

**Naya Company**

**13:00-14:00PM**

Ayako Omura



Integrating Design, Construction and Logistics in Japan and Overseas CLT Building Projects



# ICCEPM2024 Sapporo

**Day3- July 31(Wed), 2024**

**Auditoriums**

**Turner & Townsend**

**14:00-15:00PM**

Ben Samways, Hiroyuki Murase



Global and Japan Construction Costs Report

**Photoruction**

**14:00-15:00PM**

Takaharu Nakajima



Enhancing Productivity through Digital Integration in Construction Production -A Case Study Utilizing BPaaS 'Photoruction' for the Construction Industry

**Pacific Century Premium Developments**

**15:00-16:00PM**

Dr. Koichiro Sumino



How to clear the hurdles to the entry of foreign luxury design into Japan

**Takenaka Corporation**

**15:00-16:00PM**

Ryusuke Kojio



Sustainable Project Delivery - Various Delivery Schemes in Europe, Singapore and Japan  
-Beyond Design-Bid-Build or Design-Build

**Oracle seminar for students**

**16:00-17:00PM**

Nobuyuki Sawano



Learn how to implement schedule planning, progress updates and Earned Value Management (EVM) using Primavera P6, the global standard for schedule management in the construction industry.

## ICCEPM2024 Sapporo

### Excursion Plan on Day4 (1 August 2024)

As one of fun part of ICCEPM2024, we are delighted to present the excursion plan to Niseko on 1August 2024, sponsored by Pacific Century Premium Developments and Hyatt.

“With a landscape that changes dramatically between winter and summer seasons, Niseko stands as a unique mountain destination providing a variety of outdoor, sport and cultural experiences for all tastes and ages. The best powder snow in the world during winter for the most exiting rides of your life and the clearest river water of Japan within a majestic forest during summer, enabling you to connect with the nature during a timeless getaway in Niseko” by Park Hyatt Niseko Hanazono.

\*This event is free of charges but limited to capacity. Early registration is strongly recommended.



### Itinerary

- 9:00 AM: Travel from Sapporo (Hotel MyStays Aspen Sapporo) to Niseko by tour bus
- 11:00-13:00 PM: Drink & Canape at Park Hyatt Niseko Hanazono. ICCEPM2024 adjourned
- Options: To travel back to Airport and/or Sapporo by tour bus (dep 13:30/15:30/16:30 PM)
- To participate in Summer Activities at a special discount rate for ICCEPM2024
- To stay at Park Hyatt Niseko Hanazono at a special discount rate for ICCEPM2024



For enquiries, please contract [ICCEPM2024@gmail.com](mailto:ICCEPM2024@gmail.com)



## ICCEPM2024 Sapporo

### Excursion Plan on Day4 (1 August 2024)

Summer activities are available for the ICCEPM2024 participants.

<https://www.hyatt.com/en-US/hotel/japan/park-hyatt-niseko-hanazono/ctsph/area-attractions>

#### Hanazono Zipflight in Niseko



#### Rafting in Niseko



#### Fireworks and Mountain Lights in Niseko



#### Shikotsu Lake (17km from Niseko)



## ICCEPM2024 Sapporo

### **SUBMISSION**

To encourage participation from both academics and industry practitioners, the prospective presenters/participants have two different options for this conference: (OPTION 1) Paper & Presentation (recommended for academic researchers); and (OPTION 2) Extended Abstract & Presentation (recommended for practitioners).

For the Paper & Presentation option (OPTION 1), once the full paper is accepted, the full paper will be published in proceedings, and a presentation should be delivered during the conference. For the Extended Abstract & Presentation option (OPTION 2), there is no need to submit a paper; only an extended abstract and a PowerPoint are required.

It is optional, but it is recommended to submit an abstract for both options by the deadline below. It will be peer-reviewed by the Technical Committee, who will provide feedback on their suitability for the conference.

Abstract, extended abstract and full paper must be original and cannot be simultaneously submitted to another journal or conference. All of them should be written in English because the official language of the conference is English. For preparing an abstract, extended abstract, or full paper, please follow the formatting instructions available in the templates, and submit it through Easy Chair.

Highly-rated peer-reviewed papers will be selected and nominated to ASCE's Journal of Management in Engineering (JME). Invited papers will need to have at least 50% new content and will undergo the standard JME peer-review process.

Submitted papers will be given the option of publishing their full paper on KICEM's official journal, the Korean Journal of Construction Engineering and Management (KJCEM). The best papers selected from the conference will be given benefits, including partial discount of processing charges and fast tracking of the publication process.

The journal is in the process of being indexed on SCOPUS in the near future.

Please visit <https://www.kicem.or.kr/eng/> for further information.

### **Protocols**

- 1) Proceeding title: Proceeding of the 2024 International Conference on Construction Engineering and Project Management
- 2) Publisher: The International Consortium of Construction Engineering and Project Management
- 3) Editors: Dr.Han Tian, Dr. Tamura Atsushi, Dr.Nagumo Yosuke, Dr.Jung In Kim
- 4) City: Sapporo, Hokkaido, Japan
- 5) Publication Date: July 31, 2024
- 6) Sample citation: Han,T., Tamura,A.,Nagumo,Y., Kim,J.(2024). Cutting-edge Technologies to Achieve a Higher Level of Modular Construction – Literature Review, Proceeding of the 2024 International Conference on Construction Engineering and Project Management, Sapporo, Hokkaido, Japan, 29-31 July 2024.



# ICCEPM2024 Sapporo

## **SUBMISSION OPTIONS**

### **Option 1: Paper & Presentation**

This option is recommended for academic researchers and is in a three-step process.

- Step 1 – Abstract Submission (Optional): Abstracts must not exceed 250 words.
- Step 2 – Full Paper Submission (Required): Full papers must be limited to 8 pages. It must be prepared using the formatting instructions available in the full paper template. All papers will follow a single-blind review process.
- Step 3 – Presentation (Required): The presentations will be conducted in a lecture format and limited to 13 minutes (10 minutes for presentation and 3 minutes for questions/discussion). For presentation slides, you can refer to our template. It is recommended that you use the template, but it is NOT required.

#### **Important dates**

Abstract Submission: December 13, 2023

Full Paper Submission: March 15, 2024

Notification of Full Paper Acceptance: April 1, 2024

Early Bird Registration April 20, 2024. Early Bird Online Card Payment May 20, 2024

Camera-ready Submission: June 1, 2024

### **Option 2: Extended Abstract & Presentation**

This option is recommended for practitioners and is in a three-step process. For this option, there is no need to submit a paper; only an extended abstract is required.

- Step 1 – Abstract Submission (Optional): Abstracts must not exceed 250 words.
- Step 2 – Extended Abstract Submission (Required): An extended abstract must be limited to one page. It must be prepared using the formatting instructions available in the extended abstract template. All extended abstracts will follow a single-blind review process.
- Step 3 – Presentation (Required): The presentations will be conducted in a lecture format and limited to 13 minutes (10 minutes for presentation and 3 minutes for questions/discussion). For presentation slides, you can refer to our template. It is recommended that you use the template, but it is NOT required.

#### **Important dates**

Presentation only (recommended for industry speakers):

Extended Abstract Submission: March 15, 2024

Notification of Extended Abstract Acceptance: April 1, 2024

Early Bird Registration April 20, 2024. Early Bird Online Card Payment May 20, 2024

Camera-ready Submission: June 1, 2024

# ICCEPM2024 Sapporo

## **REGISTRATION FORM**

Once payment of the registration fee is processed, please fill in the registration form for each of your paper, on the registration page of our conference website and submit it to us.

<https://iccepm2024.com/registration>

## **ICCEPM2024 registration form**

The contents of the registration form are as below, which needs to be filled in on our website for each participating author or each non-author.

1.I will attend ICCEPM2024

Yes

No

2.I have paid the registration fee

Yes, standard fee

Yes, early bird non-student fee

Yes, early bird student fee. I will bring along student cards etc in July

3.Please state your paper number and your name.

If you have not submitted any papers, please state your email address and your name

4.I will attend the banquet dinner on the third day 31 July2024.

Please note that this event may be subject to capacity of 180-220 participants.

Yes

No

5.I will attend the excursion trip on the fourth day 1August2024.

Please note that this event may be subject to capacity of 50 participants.

Yes

No

## ICCEPM2024 Sapporo

### CHECK-IN FORM

1. I will check-in the conference now

Yes/No

2. Please write your name. State just one name for each check-in form

3. Please write one of your paper numbers. State "None" if you have no papers

4. Please write your email address

5. I have read the proceedings and conference brochure

Yes/Not yet, but I will

6. DAY2 Lunch box

I do not need Day2 lunch box / I will eat Japanese lunch box/I will eat sandwich lunch box(vegetarian)

7. Day3 Lunch box

I do not need Day3 lunch box/I will eat Japanese lunch box/I will eat sandwich lunch box(vegetarian)

8. Day3 Banquet dinner -for 227 registrants only to answer

I have registered online for banquet dinner before 30 April, and I will attend

I have registered online for banquet dinner before 30 April, however will not be able to attend

9. Day4 Excursion to Niseko -for 125 registrants only to answer

I have registered online for excursion before 30April, and I will attend

I have registered online for excursion before 30April, however will not be able to attend

10. Day4 Excursion- options for post to 13PM

I want to go to Chitose Airport(then Sapporo) by tour bus departing 13:30PM

I want to participate outdoor activities etc, and take tour bus departing 15:30PM

I want to participate outdoor activities etc, and take tour bus departing 16:30PM

I want to stay at Park Hyatt Niseko etc and do not need tour bus back to Sappor

# ICCEPM2024 Sapporo

## REGISTRATION FEE

### Registration Fee (Japanese Yen)

CATEGORY	Wire transfer payment	Online card payment
Regular	80,000 JPY and transfer costs	83,200 JPY
Early Bird	60,000 JPY and transfer costs	62,400 JPY
Student	50,000 JPY and transfer costs	52,000 JPY

### DETAILS

- Early Bird Registration April 20, 2024. Early Bird Online Card Payment May 20, 2024
- Access to all academic paper presentations and business seminars & workshops is included.
- Dinner banquet on the 3rd day is included, subject to capacity.
- Post-conference excursion on the 4th day is included, subject to capacity.
- Package lunch is included.

There are also two dining facilities within Hokkaido University.

Memorial center: 30 seats, 5 minutes-walk from Conference Hall

University main dining hall: 500 seats, 10 minutes-walk from Conference Hall

- Hotel fee is not included.
- All registrants, including industry practitioners and scholars, should register as regular registrants.
- To receive the student rate, lead and co-authors of each paper must be active full-time students in Spring 2024. Provide your affiliation information during the registration process.
- Conference regular (including early bird) registration allows the attendee to have up to 2 papers included in the conference and proceedings, with the exception of student registration, which allows 1 paper to be included.
- Authors must register online and pay registration fee, or their paper will be withdrawn.
- All accepted papers must be presented at the conference.
- ICCEPM 2024 will follow applicable local laws and health protocols as necessary.



# ICCEPM2024 Sapporo

## **PAYMENT INSTRUCTION**

Please process your payment of the registration fee for each of your paper, stating your paper number and name.

### **1. Payer's Reference must be used, when processing payment**

For example, if your paper submission number is 6, and your name is Jack Martin

(Example) Payer's Reference: 6 Jack Martin

### **2. Registration Fee (Wire Transfer)**

Standard registration fee is 80,000 Japanese Yen and transfer costs, after 20 April 2024.

Early bird registration fee is 60,000 Japanese Yen and transfer costs, before 20 April 2024.

Student registration fee is 50,000 Japanese Yen and transfer costs, before 20 April 2024.

3. Payment is required for each author who is presenting or participating, as well as for each non-author who is participating. Co-authors who are not coming to Sapporo are exempted from paying registration fee. If the registration fee above is not paid, your papers will be withdrawn from the conference.

### **4. We accept institutional/corporate credit cards(visa/master): please see Q&A section for details**

Otherwise, your payment must be sent to Barclays Bank UK PLC, stating following IBAN (or Sort Code and Account Number), and payee who is acting on behalf of ICCEPM2024. Payee's account is Japanese Yen account, and you can send in Japanese Yen or any foreign currency equivalent to the registration fee. Costs of money transfer and currency conversion must be paid by the Payers.

#### **For International Payment (From outside UK to UK)**

Bank Name: Barclays Bank UK PLC

Bank Address: 1 Churchill Place, London E14 5HP, UK

IBAN: GB69BUKB20498688864422

Swift BIC: BUKBGB22

Payee: Circle Field Associates Limited

Payee's address: 31 St Mildreds Road London SE12 ORD UK. <https://circlefield.com/>

#### **For UK Domestic Payment (From UK to UK)**

Bank Name: Barclays Bank UK PLC

Sort Code: 20-49-86

Account Number: 88864422

Payee: Circle Field Associates Limited

Payee's address: 31 St Mildreds Road London SE12 ORD UK. <https://circlefield.com/>

# ICCEPM2024 Sapporo

## Q&A

### **Q1. Can I pay by credit card?**

- A. Yes, we accept institutional and corporate credit cards(visa/master.) Please access to the registration page of our conference website and click “Payment” button, and follow its links to circlefield.com (which is acting on behalf of ICCEPM2024) and Barclays Bank payment page. <https://iccepm2024.com/registration>

Registration fee for online credit card payment includes card companies’ transaction costs

Online payment- Standard registration fee is 83,200 Japanese Yen

Early bird rate is available for those who have already registered before 20 April 2024.

Online payment- Early bird registration fee is 62,400 Japanese Yen

Online payment-Student registration fee is 52,000 Japanese Yen

Please state your paper number such as “paper6” at :Add a note to your order” at Checkout Page. If no paper submitted, please state “None”

### **Q2. Can I pay by cash at the conference venue, or by any alternative method?**

- A. If you are struggling to process payment as above, please contact [ICCEPM2024@gmail.com](mailto:ICCEPM2024@gmail.com)

### **Q3. How much does it cost for money transfer**

- A. For wire transfer, please inquire your instructing bank. Cost related with money transfer and currency conversion must be paid by the Payers.

### **Q4. Can I have an invitation letter, registration notice or invoice/receipt?**

- A. Yes, please contact [ICCEPM2024@gmail.com](mailto:ICCEPM2024@gmail.com), and we will issue. Please allow us a little time to process theses, post to your payment and registration. Thank you for your patience.

### **Q5. Who is this payee, Circle Field Associates Limited?**

- A. It is a registered company in England &Wales (Company Number 9805160), acting for and on behalf of ICCEPM2024, and one of the sponsors of the conference.

### **Notice:**

The registration fee does not include any insurance cost etc to cover participants’ safety and other risks etc during this conference, as such each participant is responsible for their own safety and other risks and requested to procure any appropriate travel insurance or any other insurance etc to cover their safety and other risks associated with this conference.

## CONTACT

ICCEPM2024 Secretariat and Administration Committee Email: [ICCEPM2024@gmail.com](mailto:ICCEPM2024@gmail.com)