Welcome Address

On behalf of the Organizing Committee and all our members of the Korean Institute for Construction Engineering Management (KICEM), we wish to extend a warm-hearted welcome to the participants of the 2009 ICCEM•ICCPM conference. It is with great privilege and honor to host the conference in Korea, and we are even more delighted to greet our guests at Korea's most prestigious and favorite resort of Jeju Island.

We have made preparations to ensure that the conference will be a smashing success. In particular, we hope that the conference provides a platform where academics, industry leaders, and all those affiliated with the field of construction engineering and management can get together to share new ideas, extend current boundaries, and perhaps most importantly, broaden mutual relationships- both professional and personal- in this global new world.

We have organized an intellectually stimulating and exciting program to reflect the main theme of our conference, "Global Convergence in Construction." We have invited nine internationally renowned keynote speakers and seventeen industrial case lectures from representative projects all over the world. More than two hundred papers from nineteen countries will be presented during the conference. The program has been prepared so that everyone has a chance to share their latest work and projects with the utmost efficiency and the highest quality.

We wish to take this opportunity to thank the sponsors for their generous support, and would also like to convey our sincere gratitude to the international program committee members for their cooperation.

Jeju Island is beautiful all year round, but May is truly the best time to appreciate its splendor. Under the soft, warm sunshine, surrounded by emerald surfs lapping at pristine white beaches, we hope you have a great time in the company and friendship of all our participants.

Last but not least, we wish you have a productive and fruitful stay and hope that you will benefit from the conference, and that the memory of your visit to the Jeju Island be a lasting and pleasant one.

Sincerely,



Kinkowlank

Sun Kuk Kim

Chairman
Organizing Committee ICCEM-ICCPM 2009



Topmboo Lee

Hyun Soo Lee

President

Korea Institute of Construction Engineering and Management

Organizing Committee

ICCEM 2009

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David Chew Ah Seng	Nanyang Technological University	Singapore
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Ting-ya Hsieh	National Central University	Taiwan
Hank Adams	Kiewit Construction Company	U.S.A
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Yong Kwon Cho	University of Nebraska- Lincoln	U.S.A
G. Edward Gibson	University of Alabama	U.S.A
Hyungseok Jeong	Oklahoma State University	U.S.A
Julian H. Kang	Texas A&M University	U.S.A
Yong Woo Kim	University of Washington	U.S.A
Joo Hyoung L ee	Purdue University, Calumet	U.S.A
Sang Hoon Lee	Huston University	U.S.A
Marvin Oey	The Construction Institute of the American Society of Civil Engineers	U.S.A
Boong-yeol Ryoo	Florida International University	U.S.A
Miroslaw J. Skibniewski	Universtiy of Maryland	U.S.A

Conference Information

Registration

Registration Desk

Date	Place	Operation Hour
May 27	Crond Pollroom Labby 15	15:00~19:00
May 28~29	Grand Ba ll room Lobby 1F	08:00~19:00

Registration Fee

Catagony	On-site Registration		
Category	Domestic	Foreign	
Participants	KRW 650,000	\$US 650	
Students	KRW 350,000	\$US 350	
Accompanying Persons	KRW 150,000	\$US 150	

Registration Fee includes

- Participant includes: Scientific program admission, opening / closing ceremony, welcome reception, banquet, Lunches, coffee breaks, and conference kit.
- Student (Undergraduate and fulltime postgraduates Master and Ph.D. courses) includes: Scientific program admission, opening / closing ceremony, welcome reception, banquet, Lunches, coffee breaks, and conference kit.
- Accompanying Person includes: Opening / closing ceremony, welcome reception, banquet, coffee breaks, and name badge.

Name Badges

You are kindly requested to wear your name badge during all scientific sessions and social programs.

Presentation Guideline

Pre-view

Please visit the pre-view room at the hotel lobby(B1) at least 4 hours prior to the start of your session.

You should check your presentation file whether it does work correctly in our system.

If it does not work or if you have any other requests, please let our staff know in the pre-view room.

- Place: the function room opposite of the crystal hall (B1)
- Operation Hours: May 27 (15:00 ~ 18:00), May 28-29 (08:00 ~ 18:00)

Presentation file submission / Technical Equipment

- After checking your file, please submit the file to the staff in the preview room.
- The IBM-compatible laptops will run on the Windows XP Operating System and will have Microsoft Office 2003 Power-point.
- It will be possible to bring your own computer. In this case, we ask that you test your computer with the projector located in the lecture room where you will hold your presentation during the previous break in order to avoid delays
- In particular, if you bring your Mackintosh computer for the presentation, please test it in the lecture room 2 hours before the session.

Presentations Time

- Keynote Lectures 40mins including Q&A
- Industrial Case Lectures 20mins including Q&A
- Oral Presentation 15mins including Q&A
- P oster Presentation: All presenters are requested to affix their posters, and remove them on the dates and times shown below.

Place	Date & Time (Affix)	Date & Time (Removal)
Diamond Hall Lobby (B1)	May 28, by 09:00	May 29, by 17:30

Meals

Breakfast

Breakfast will not be provided you in ICCEM-ICCPM 2009. However, we will serve the meals with conference rate in the hotel & resort restaurants, and you can have meals in the restaurants outside hotel & resort with more cheap price.

Lunch Sponsored by Heerim Architects & Planners

ICCEM-ICCPM 2009 will provide registrants with free lunch in the restaurants(Hanoru, Idy, Sum Mora). The lunch coupon will be given with your name bage.

Transportation

Shuttle Schedule between Haevichi Hotel & Resort and Jeju Airport.

- Departure from Juju Airport to Haevichi Hotel

- Departure form Haevichi Hotel to Juju Airport

Airport	Hotel	Opertation Day
09:00	10:30	
10:00	11:30	
11:00	12:30	During the conference
12:30	13:30	During the conference
13:30	14:30	
14:30	15:30	
16:00	17:00	Two buses will be operated.
17:00	18:00	During the conference
18:00	19:00	
19:00	20:00	Only May 27-28
20:00	21:00	
21:00	22:00	During the conference

	Hotel	Airport	Opertation Day
			During the conference
_	09:00	10:00	
	10:00	11:00	Only May 29-30
	10:30	12:00	During the conference
	11:00	12:00	Only May 29-30
	12:00	13:00	
	13:00	14:00	During the conference
	14:00	15:30	buring the conference
	15:10	16:40	
	17:00	18:00	Only May 29-30
	18:10	19:40	During the conference
	19:10	20:10	Only May 29-30
	15:10 17:00 18:10	16:40 18:00 19:40	During the conference

Useful Information

Internet Lounge

Place: Hotel Lobby (B1)
Operation hours: 08:00~18:00

Information & Message Board

ICCEM·ICCPM 2009 secretariat will announce some "Notice" to the participants using the message board. Participants are able to exchange the message between other participants at the conference using it.

Free Meeting Room

Two small sized meeting rooms A and B (10 person) will be available for use on a first come first served basis.

Participants who wish to use these rooms should fill out the time sheet which will be on the door of the meeting room.

Information/Tour Desk

Place: Hotel Lobby 1F, a hallway between the Grand Ballroom and the hotel side

Operation Hours: 09:00 ~ 18:00

If you have any inquiries about the conference, please ask information desk.

Anyone who wants to join the tour program of ICCEM·ICCPM 2009 is required to visit the tour desk. Every tour will be arranged only if minimum number of participants join.

Medical Office

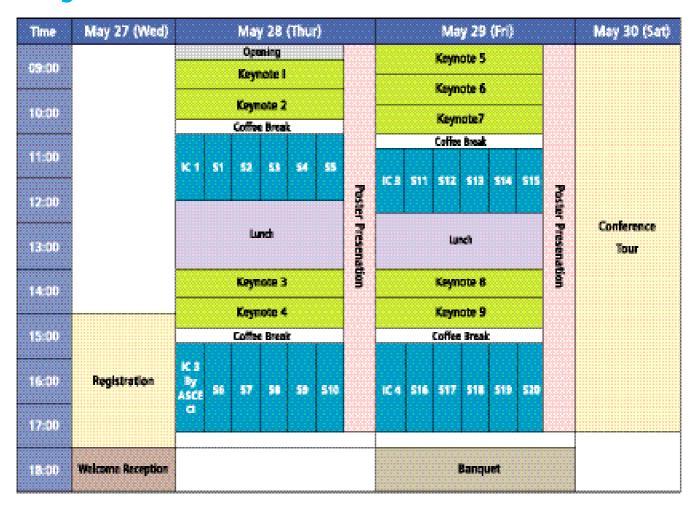
Place: Hotel 1F, between the Grand Ballroom and the hotel side

Operation Hours: 08:30~18:00

ICCEM·ICCPM 2009 secretariat

During the conference: Hotel Lobby (B1) / May 27 ~ May 29, 08:00 ~ 18:00 / Tel: 064-780-8561

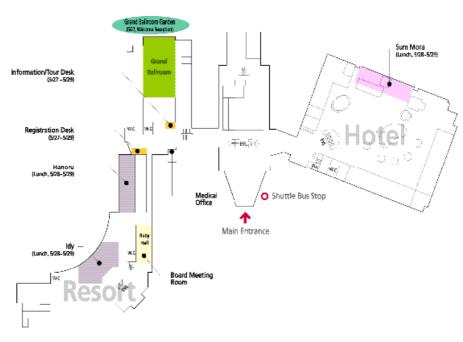
Program at-a-Glance



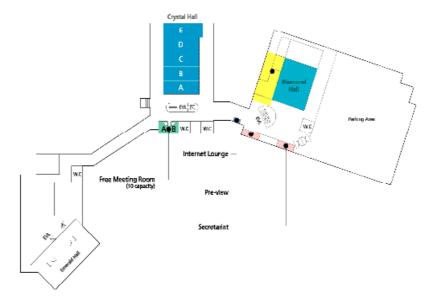
Session Topics

Automation and Robotics in Construction	S3, S8
Building Information Model	S5, S10
Construction Productivity Improvement	S14, S19
Cost, Time, Quality, and Safety Management	S2, S7, S12, S17
Design and Engineering Management	S20
Information Technology in Construction	S13, S18
International and Global Issues in Construction Project Management	S 19
Project Management	S1, S6, S11, S16
State-of-the-Art in Construction Engineering and Management	S15
Sustainability and the Environment	S4, S9

Floor Plan



B1



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Keynote, Opening Ceremony, Banquet & Closing Ceremony	Grand Ballroom-	1F
Industrial Cases	Diamond Hall	D1
Oral Presentations	Crystal Hall	B1
Posters	Diamond Ha ll Lobby	B1

i unctio	n Roon	U

Registration Desk, Medical Office, Information/Tour Desk	1F
Pre-view, Secretariat, Internet Lounge, VIP Room, Free Meeting Room	B1

Social Program and Refreshment

The social programs will provide a chance for the participants to mingle and enjoy a leisurely time with your colleagues.

Welcome Reception - May 27 (Wednesday), 18:00~20:00, Grand Ballroom Garden(1F).

*In case of raining, in the Grand Ballroom Lobby

Free of Charge

All registered participants are invited to the welcome reception. You can enjoy an standing buffet dinner.

A chance for all the participants and their companions to relax from their long trips while also enjoying conversations with other colleagues In the warm atmosphere and welcome.

Banquet - May 29 (Friday), 18:00~20:00, Grand Ballroom (1F)

Free of Charge, Sponsored by Kun Won Engineering

A banquet dinner will be held for pre-registered guests. All participants will enjoy western-style dinner. The dinner will be followed by "Korean Traditional Performance." We are sure that the Banquet will be a memorable event for all participants. You will be greatly impressed by the beautiful and unique cultural performance of Korea.

*Those who would like to join the banguet and have not yet registered may make a reservation at the registration desk by 16:00, May 28.

Conference Tour - May 30 (Saturday), 09:00~17:30, beautiful Jeju island

Admission with coupon (\$US70)

The excursion bus will depart from the venue at 09:00, and you will served lunch. (a Korean traditional dish)

Experience World Heritage sites Sungsan sunrise peak and Jeongbang Waterfall and Black hexagonal stone pillars at the edge of the ocean, and visit the world biggest bonsai theme park, and tracking the "Olle" which is a path that comes out from a secret room to an open space and a gateway to the world.

*Those who would like to join the conference tour and have not yet registered are requested to make a reservation at the registration desk by 14:00, May 29.

Sponsors

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Keynotes

May 28th

(Grand Ballroom, 1F)

Chairperson: Young Soo Jung (Myongji University)



K1 (09:20-10:00)

Automated Data Collection Technology Applications in Construction

Ronie Navon Israel Institute of Technology, Israel



K2 (10:00-10:40)

Construction IT, Collaboration

Feniosky A. Pena-Mora University of Illinois at Urbana-Champaign, USA

Chairperson: Yea-Sang Kim (Sungkyunkwan University)



K3 (14:00-14:40)

The Way How To Combine Creativity on Use with the Improvement of Built Environment

Matsumura Shuichi

The University of Tokyo, Japan



4 (14:40-15:20)

Expanding the Global Construction opportunities through business convergence

Soo Sam Kim

Hanyang University, Korea

May 29th

(Grand Ballroom, 1F)

Chairperson: Chan sik Park (Chung-Ang Univercity)



K5 (09:00-09:40)

Project Leadership: A Global Study of **New Trends**

George Ofori

National University of Singapore, Singapore



K6 (09:40-10:20)

Lean Construction

Iris Tommelein

University of California, Berkeley, USA



K7 (10:20-11:00)

ICT-supported collaborative working in construction

Geoffrey Qiping SHEN

The Hong Kong Polytechnic University, Hong Kong



Chairperson: Soon Wook Kwon (Sungkyunkwan University)



K8 (14:00-14:40)

Construction Simulation

Simaan M. AbouRizk

University of Alberta, Canada



< (14:40-15:20)

Infrastructure Risk Management in Preparation of Extreme Events

Makarand Hastak

Purdue University, USA

Industrial Cases

May 28th		(Diamond Hall, B1)
11:00-12:20	IC1 - Project Management	Chairperson: Ghang Lee (Yonsei University)
IC1-1	Construction Management in Songdo International City In-Seub Gin, KUNWON Engineering Co., South Korea	
IC1-2	Sustainable Development and Green Growth Terry W. Curl, CH2MHILL, USA	
IC1-3	Understanding the U-City Project Boo-Young Chung, SAMSUNG SDS, Korea	
IC1-4	Integrated U-City Model in New Songdo International City Jeong-Wha Huh, Songdo U-Life., LLC, Korea	
15:40-17:40	IC2 - Cost, Time, Quality, and Safety Manager	ment Chairperson: Marvin Oey (ASCE)
IC2-1	Sustainability Initiatives of the Chicago O'Hare Modernation Project Rosemarie Andolino, O'Hare Modernization Program, USA	
IC2-2	Project Delivery Systems: A U.S. Perspective Chris Reseigh, Parsons Brinckerhoff, USA	
IC2-3	Construction Productivity Hank Adams, Kiewit, USA	
May 29th		(Diamond Hall, B1)
11:15-12:35	IC3 - Project Management Chairp	erson: Sangyoon Chin (Sungkyunkwan University)
IC3-1	Saudi Tasnee Ethylene Plant - Success Story of Project Execution Jung Koo Lee, SAMSUNG Engineering Co., Ltd, Korea	
IC3-2	Embracing the Challenge - LEED at Songdo International Business Dist Suzanne Johnson, PB, Korea	rict
IC3-3	Burj Dubai Pinnacle Lift-Up DAE-JOONG Kim, Samsung Corporation, Korea	
IC3-4	Great Hanoi Eliot Sanghoon Bu, Urban Knowledge Trust, Korea	
15:40-17:40	IC4 - Cost, Time, Quality, and Safety Managemen	t Chairperson: HyoungKwan Kim (Yonsei University)
IC4-1	Daelim EVMS System Doyoung Jung, Daelim Industrial Co., Bridge Engineering Team, Korea	
IC4-2	Case Study of Multi-Prime CM Contract for Mexico S Factory Seok Ki Min, HanmiParsons co., Ltd., Korea	
IC4-3	Immersed Tunnel (Busan-Geoje Fixed Link) Bong-Hyun Cho, Daewoo E&C Co., Ltd, Korea	
IC4-4	Constructing a small footprint wastewater treatment plant using adva Dooil Kim, POSCO E&C, Korea	nced biological process
IC4-5	Visualization of Construction Schedule Considering the Geological Conditions and the Ho Yeong Kim, SK Engineering & Construction, Korea	e Method Statement in the Complicated Underground Space
IC4-6	Taean Tourism and Lesuire city Jung Chul Kim, HYUNDAI Engineering & Construction Co., LTD., Korea	

Oral Presentations

S1 11:00-12:30	Project Management Crystal Hall A Chairperson: G. Edward Gibson (University of Alabama)
S1-1 11:00	APPLICATION OF CONTRACTORS' RISK PREFERENCE ON THE EVALUATION OF THE PHILIPPINE GOVERNMENT STANDARD CONTRACT Joel Cesarius V. Reyes, Chulalongkorn University, Thailand
S1-2 11:15	LIFT CYCLE PREDICTION METHOD FOR THE SELECTION OF LIFT EQUIPMENT IN SUPER TALL BUILDING CONSTRUCTION Seo-kyung Won, Kyung Hee University, Korea
S1-3 11:30	COMPETITOR ANALYSIS IN CONSTRUCTION BIDDING Bee Lan Oo, University of Sydney, Australia
S1-4 11:45	SHIHMEN SEDIMENT PREVENTION DIVERSION TUNNEL PLANNING AND DESIGN Ho-Shong Hou, University Kaohsiung, Taiwan
S1-5 12:00	CULTURAL IMPACT ON KNOWLEDGE MANAGEMENT PROCESS AFFECTING PROJECT MANAGEMENT PRACTICE Eric Wai-Leung Chan,RMIT University, Australia
S1-6 12:15	IDENTIFICATION OF SOME FAILURE COSTS AND THEIR PERCEIVED ROOT CAUSES IN CONSTRUCTION Saad Al-Jibouri, University of Twente, Netherlands
S2	Cost, Time, Quality, and Safety Management
11:00-12:30	Crystal Hall B Chairperson: Shuzo Furusaka (Kyoto University)
S2-1 11:00	A MODEL OF CONSTRUCTION WORKER'S PERCEPTIONS ON ELECTRONIC MONITORING Bill L.P. Lee, The Hong Kong Polytechnic University, Hong Kong
S2-2 11:15	Study of New Cast-in-Place Mortar Wall for House Construction Compared to Brick and Mortar-Block System (A Simulation in Different Areas) Arief Setiawan Budi Nugroho, Hokkaido University, Japan
S2-3 11:30	A CBR-BASED COST PREDICTION MODEL FOR THE DESIGN PHASE OF PUBLIC MULTI-FAMILY HOUSING CONSTRUCTION PROJECTS HyunSeok Moon, University of Seoul, Korea
S2-4 11:45	STRATEGIC ALLIANCE IMPLEMENTATION STATUS AND IMPACT ON PROJECT PERFORMANCE Bon-Gang Hwang, National University of Singapore, Singapore
S2-5 12:00	APPLICATION OF WIRELESS INCLINOMETER TEMPORARY EARTH RETAINING PILE Chi Hun In, Yonsei University, Korea
S3	Automation and Robotics in Construction
11:00-12:30	Crystal Hall C Chairperson: Po-Han Chen (Nanyang Technological University)
S3-1 11:00	ILLUMINATION ADUSTMENT FOR BRIDGE COATING IMAGES USING BEMD-MORPHOLOGY APPROACH Po-Han Chen, Nanyang Technological University, Singapore
S3-2 11:15	OPERATION SKILL ANALYSIS USING PRIMITIVE STATIC STATES IN HUMAN-OPEATED WORK MACHINE Mitsuhiro Kamezaki, Waseda University, Japan
\$3-3 11:30	IMPROVING CONSTRUCTION PROJECT DELIVERY THROUGH AUTOMATION AND ROBOTICS Jasper Mbachu, Massey University, New Zealand
S3-4 11:45	A DEVELOPMENT OF INTELLIGENT CONSTRUCTION LIFT-CAR TOOLKIT DEVICE FOR CONSTRUCTION VERTICAL LOGISTICS MANAGEMENT Chang-Yeon Cho, Sungkyunkwan University, Korea
S3-5 12:00	TRACKING LIFT-PATHS OF A ROBOTIC TOWERCRANE WITH ENCODER SENSORS Suyeul Park, Yonsei University, Korea
S3-6 12:15	BOX-AND-ELLIPSE-BASED NEURO-FUZZY APPROACH FOR BRIDGE COATING ASSESSMENT Po-Han Chen, Nanyang Technological University, Singapore

S4	Sustainability and the Er			
11:00-12:30	Crystal Hall D	Chairperson: Yong Kwon Cho (University of Nebraska- Lincoln)		
S4-1 11:00	GREEN CONSTRUCTION: U.S. CONSTRU Yong Han Ahn, Virginia Tech, United State	UCTION RELATED COMPANIES' STATUS AND PERCPETION es		
S4-2 11:15		ESTABLISHMENT OF CDM PROJECT ADDITIONALITY THROUGH ECONOMIC INDICATORS Kai. Li., Nanyang Technological University, Singapore		
S4-3 11:30		BIM-DRIVEN ENERGY ANALYSIS FOR ZERO NET ENERGY TEST HOME (ZNETH) Yong K. Cho, University of Nebraska-Lincoln, United States		
S4-4 11:45	REDUCTION OF SEDIMENT-LADEN WATER FR Teo Ee Huat, Ngee Ann Polytechnic, Singa	OM CONSTRUCITON SITES INTO WATERWAYS:- A GOVERNMENT AND INDUSTRY APPROACH apore		
S4-5 12:00	VULNERABILITY ASSESSMENTS AND RISK N Chun Nen Huang, Central Police Universit	Management for Critical Infrastructures from Homeland Security Viewpoints y, Taiwan		
S 5	Building Information Mo	odel		
11:00-12:30	Crystal Hall E	Chairperson: Matsumura Shuichi (The University of Tokyo)		
S5-1 11:00	GREEN BIM APPROACHES TO ARCHITECTURAL DESIGN FOR INCREASED SUSTAINABILITY Annie Pearce, Virginia Tech, United States			
S5-2 11:15	MAINTENANCE COST ANALYSIS FOR LARGE HOSPITAL BUILDINGS Sy-Jye Guo, National Taiwan University, Taiwan			
S5-3 11:30	REQUIREMENTS FOR AUTOMATED CO Jiyong Jeong, Yonsei University, Korea	DE CHECKING FOR FIRE RESISTANCE AND EGRESS RULE USING BIM		
S5-4 11:45	THE SELECTION OF COLOR SCHEME FOR 4D CONSTRUCTION MODEL Shih-Chung Kang , National Taiwan University, Taiwan			
S5-5 12:00	INTEROPERABILITY ISSUES IN CROSS-D OF DONGDAEMUN DESIGN PLAZA AN Ohyoon Kwon, Yonsei University, Korea	ISCIPLINARY COLLABORATIONS OF IRREGULARLY SHAPED BUILDINGS: THE CASE D PARK		

S6	Project Management		
15:40-17:40	Crystal Hall A Chairperson: HyungSeok David Jeong (Oklahoma State University)		
S6-1 15:40	INFLUENCE OF LEADER ON ORGANIZATIONAL LEARNING IN CONSTRUCTION TEAMS Chieh-Chi Cheng, National Cheng Kung University, Taiwan		
S6-2 15:55	THE INFLUENCE OF THE PROJECT MANAGER ON THE SUCCESS OF THE CONSTRUCTION PROJECTS Mahdi M Abdulsamad Ali, Sheffield Hallam University, United Kingdom		
S6-3 16:10	EVALUATING CRITICAL SUCCESS FACTORS FOR ACCURATE FIRST COST ESTIMATES OF LARGE-SCALE CONSTRUCTION PROJECTS Ok-Kyue Kim, Chungbuk National University, Korea, Korea		
S6-4 16:25	DATA WAREHOUSE PROTOTYPE SYSTEM TO SUPPORT THE MASTER PLAN OF URBAN REGENERATION PROJECT Sang-Geum Lee, University of Seoul, Korea		
S6-5 16:40	BEST PRACTICES FOR JOINT VENTURES: ISSUES AND CRITICAL SUCCESS FACTORS Rizwan U. Farooqui, Florida International University, United States		
S6-6 16:55	Fundamental Investigation of Knowledge Management System for a Plant Seo-kyung Won, Kyung Hee University, Korea		
S6-7 17:10	AN ASSET MANAGEMENT ASSESSMENT MODEL FOR STATE DOTS HyungSeok David Jeong, Oklahoma State University, United States		
S6-8 17:25	PREDICTION OF FAULT TREND IN A LNG PLANT USING WAVELET TRANSFORM AND ARIMA MODEL Yeonjong Ju, Yonsei University, Korea		
S7	Cost, Time, Quality, and Safety Management		
15:40-17:40	Crystal Hall B Chairperson: Dongping Fang (Tsinghua University, Beijing)		
S7-1 15:40	IMPROVING THE USABILITY OF STOCHASTIC SIMULATION BASED SCHEDULING SYSTEM Tae-Hyun Bae, Kyungpook National University, Korea		
S7-2 15:55	A NESTING APPROACH IN DISCRETE EVENT SIMULATION FOR INTEGRATING CONSTRUCTION OPERATION AND SCHEDULE MODELS Chang-Yong Yi, Kyungpook National University, Korea		
S7-3 16:10	OPTIMIZING QUALITY AND COST OF METAL CURTAIN WALL USING MULTI-OBJECTIVE GENETIC ALGORITHM AND QUALITY FUNCTION DEPLOYMENT Tae-Kyung Lim, Kyungpook National University, Korea		
S7-4 16:25	STATISTICALLY PREPROCESSED DATA BASED PARAMETRIC COST MODEL FOR BUILDING PROJECTS Sae-Hyun Ji, Seoul National University, Korea		
S7-5 16:40	MODELLING HONG KONG RESIDENTIAL CONSTRUCTION DEMAND: EXPERIENCES GAINED AND THEIR IMPLICATIONS S. Thomas Ng, The University of Hong Kong, Hong Kong		
S7-6 16:55	A NEW FEEDBACK TECHNIQUE FOR TUNNEL SAFETY BY USING MEASURED DISPLACEMENTS DURING TUNNEL EXCAVATION Sihyun PARK, Korea Infrastructure Safety and Technology Corporation, Korea		
S7-7 17:10	A CONCEPTUAL FRAMEWORK FOR CONCURRENT CONSTRCUTION PLANNING Euysup Shim, Illinois State University, United States		
S8	Automation and Robotics in Construction		
15:40-17:40	Crystal Hall C Chairperson: Masao Ando (Chiba University)		
S8-1 15:40	ADAPTABLE ELLIPSE METHOD FOR BRIDGE COATING DEFECT RECOGNITION Po-Han Chen, Nanyang Technological University, Singapore		
S8-2 15:55	TASK PLANNING AND VISUALIZATION SYSTEM FOR INTELLIGENT EXCAVATING SYSTEM Jeong-Hwan Kim, Hanyang University, Korea		
S8-3 16:10	THE RESEARCH ABOUT RTPM SYSTEM CONSTRUCTION THAT APPLY USE CASE MODELING METHODOLOGY Eun Young-Ahn, Hanyang University, Korea		

S8-4 16:25	A DEVELOPMENT OF RFID/USN-BASED INTELLIGENT EQUIPMENT Tae-Hong Shin, Sungkyunkwan University, Korea			
\$8- 5 16:40	AUTOMATED PROJECT CONTROL SYSTEM FOR STEEL PROJECTS SangHyun Lee, University of Alberta, Canada			
S8-6 16:55	DETAILS OF PRACTICAL IMPLEMENTATION OF REAL-TIME 3D TERRAIN MODELING Seungwoo Han, Inha University, Korea			
S8-7 17:10	COST ANALYSIS OF STRUCTURAL PLAN FOR REDUCING FRAMEWORK CONSTRUCTION DURATION OF REINFORCED CONCRETE RESIDENTIAL BUILDINGS Seon-Woo Joo, Seoul National University, Korea			
S8-8 17:25	DEVELOPMENT OF CONSTRUCTION SITE ACCESS MANAGEMENT AUTOMATION SYSTEM BASED ON HAND VASCULAR PATTER Kyong Hoon Kim, Hanyang University, Korea			
S9	Sustainability and the Environment			
15:40-17:40	Crystal Hall D Chairperson: Sang-Hoon Lee (Huston Universi			
S9-1 15:40	DEVELOPMENT OF A FRONT END PLANNING TOOL FOR SUSTAINABILITY Sang-Hoon Lee, The University of Houston, United States			
S9-2 15:55	DETERMINING KEY ECOLOGICAL INDICATORS FOR URBAN LAND CONSOLIDATION Kuo-Liang Lin, I-Shou University, Taiwan			
S9-3 16:10	QUANTIFICATION OF THE CO2 FOOTPRINT IN RESIDENTIAL CONSTRUCTION Mohamed Al-Hussein, University of Alberta, Canada			
S9-4 16:25	SINGAPORE CONTRACTORS' ATTITUDES TOWARDS ENVIRONMENTAL SUSTAINABILITY Bee Lan Oo, University of Sydney, Australia			
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S9-6 16:55	EVALUATION OF SUSTAINABILITY OF CONSTRUCTION OPERATIONS: A FRAMEWORK FOR THE NEW ZEALAND CONSTRUCTION INDUSTRY Jasper Mbachu, Massey University, New Zealand			
S9-7 17:10	REVOLUTIONS OF CONSTRUCTION ORGANIZATIONS TOWARDS GREEN BUILDING PRJECTS Po-Han Chen, Nanyang Technological University, Singapore			
S10	Building Information Model			
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S10-1 15:40	WHEN CM AT RISK MEETS VIRTUAL DESIGN AND CONSTRUCTION (VDC): CASE STUDY OF PRACTICIES IN U.S Joo-Sung Lee, Hanyang University, Korea			
S10-2 15:55	A STUDY ON PRICING MODEL OF HIGH-RISE RESIDENTIAL BUILDINGS FROM THE VIEWPOINT OF LANDMARK FACTOR Sung-Kon Moon, Hanyang University, Korea			
S10-3 16:10	ENHANCEMENT OF AVAILABILITY OF 4D SIMULATION BASED ON BUILDING INFORMATION MODEL TECHNOLOGY Jong Jin Park, Hanyang University, Korea			
S10-4 16:25	COMPARATIVE ANALYSIS OF BIM ADOPTION IN KOREAN CONSTRUCTION INDUSTRY AND OTHER COUNTRIES Jongsung Won, Yonsei University, Korea			
S10-5 16:40	DEVELOPMENT OF LEGALITY SYSTEM FOR BUILDING ADMINISTRATION PERMISSION SERVICE BASED ON BIM Inhan Kim, Kyung Hee University, Korea			
S10-6 16:55	ENERGY EFFICIENT BUILDING DESIGN THROUGH DATA MINING APPROACH Hyunjoo Kim, USACE, United States			

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S11-1 11:00	SUGGESTION AND VERIFICATION OF ASSESSMENT MODEL ON CONSTRUCTION-COST OF STEEL BRIDGE IN PROJECT PERFORMANCE PHASES Eun-Kyoung Jeon, Korea Marinetime University, Korea
S11-2 11:15	USING PROCESS MAPPING IN CONSTRUCTION PROCESS TO REDUCE CHANGE ORDERS Sang-Hoon Lee, The University of Houston, United States
S11-3 11:30	BUSINESS PROCESS ENGINEERING IN THE CONSTRUCTION INDUSTRY Brenda L. P. Yip, The University of Hong Kong, Hong Kong
S11-4 11:45	THE CONFLICT MANAGEMENT STYLE ADOPTED BY THE SUBCONTRACTORS OF HONG KONG BUILDING PROJECTS Andy K.W. Ng, City University of Hong Kong, Hong Kong
S11-5 12:00	BASIC RESEARCH OF SUB-PACKAGE PROBLEM IN KOREAN CONSTRUCTION INDUSTRY Jinho Shin, Seoul National University, Korea
S11-6 12:15	A TIME DETERMINATION MODEL INCORPORATING RISK MANAGEMENT BASED ON MALAYSIAN CASE STUDIES Sim Nee Ting, Universiti Malaysia Sarawak, Malaysia
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S12-1 11:00	A STUDY ON DEVELOPING THE CALCULATION SYSTEM OF DISBURSEMENT FOR GOVERNMENT ON THE BTL PROJRCTS Chun-Kyong Lee, Mokwon University, Korea
S12-2 11:15	SCRAPER EARTH-MOVING FLEET OPTIMIZATION VIA SPREADSHEET-BASED MODELING Borinara Park, Illinois State University, United States
S12-3 11:30	ECONOMIC ASSESSMENT OF THE SOLAR-ENERGY SYSTEM USING LIFE CYCLE COST ANALYSIS Dong-Won Jang, University of Seoul, Korea
S12-4 11:45	A STUDY ON THE DEVELOPMENT OF A COST MODEL BASED ON THE OWNER'S DECISION MAKING AT THE EARLY STAGES OF A CONSTRUCTION PROJECT Choong-Wan Koo, HanmiParsons co., Ltd., Korea
S12-5 12:00	A COST DATA-BASED ESTIMATING MODEL FOR FINISHES IN THE KOREAN PUBLIC OFFICE BUILDING PROJECTS Joon-Oh Seo, HanmiParsons co., Ltd., Korea
S12-6 12:15	COMPARATIVE STUDY ON LEGISLATION OF CONSTRUCTION EXPENSE PAYMENT BETWEEN CHINA AND TAIWAN REGION Tian Han, Kyoto University, China
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S13-2 11:15	FACTORS CLUSTERING APPROACH TO PARAMETRIC COST ESTIMATES AND OLAP DRIVER JaeHo Cho, Dankook University, Korea
S13-3 11:30	A STUDY ON DEVELOPING DECISION SUPPORT MODULES OF IPMIS(INTELLIGENT PROGRAM MANAGEMEN INFORMATION SYSTEM) FROM ONTOLOGICAL PERSPECTIVE Jae-Bok Lim, Hanyang University, Korea
S13-4 11:45	INTEGRATION OF SSM AND IDEF TECHNIQUES FOR ANALYZING DOCUMENT MANAGEMENT PROCESSES Vachara Peansupap, Chulalongkorn University, Thailand
S13-5 12:00	A FRAMEWORK FOR ACTIVITY-BASED CONSTRUCTION MANAGEMENT SIMILATION Boong Yeol Ryoo, Texas AM University, United States

S13-6 12:15	The DEVELOPMENT OF WORK PERFORMANCE ANALYSIS SYSTEM Chul-Woo Lim, Kwangwoon University, Korea		
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S14-2 11:15	READABILITY TEST OF RFID TEM Julian Kang, Texas AM University, U	PERATURE SENSOR EMBEDDED IN FRESH CONCRETE nited States	
S14-3 11:30	ROLES AND RELATIONSHIPS BETV Sayaka Nishino, Kyoto University, Ja	/EEN ARCHITECTS AND CONTRACTORS BASED ON CONTRACTOR-DESIGNER ISSUE IN JAPAN Ipan	
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S14-5 12:00	MODELLING ISSUES IN THE DEVI Saad Al-Jibouri, University of Twent	ELOPMENT OF A SIMULATION GAME FOR TEACHING CONSTRUCTION MANAGEMENT e, Netherlands	
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S15-4 11:45	DEVELOPMENT OF CONCRETE FILLED TUBE AS A PILLAR PILE FOR TOP DOWN METHOD Jee-Yun Song, Yonsei University, Korea		
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S17-3 16:10	COST ESTIMATE AT EARLY STAGE Kihoon Seong, Seoul National University, Kore	ea
S17-4 16:25	SAFETY MANAGEMENT SYSTEM PROTOTY Kwang-pyo Lee, Seoul National University, Ko	
S17-5 16:40	SUCCESS STORY OF THE SHIPBUILDING AN LESSON FOR THE CONSTRUCTION INDUSTING George Ofori, National University of Singapore	
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S18-3 16:10	PERFORMANCE MANAGEMENT SYSTEM FOR You-Jin Jang, Seoul National University, Korea	OR BENCHMARKING IN CONSTRUCTION COMPANIES
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S18-5 16:40	ONTOLOGY BASED KNOWLEDGE RETRIEV Kyung-won Lee, Seoul National University, Ko	AL IN CONSTRUCTION PROJECTS: FOCUSED ON THE CONSTRUCTION PROCESS rea

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S20-3 16:10	INTEGRAL METHODS OF FUZZY AHP AND DSM FOR EV. Lou Y. Liang, Leader University, Taiwan	ALUATION IN PARTITIONING DESIGN TEAMS	
S20-4 16:25	OPTIMAL DESIGN ALGORITHM OF THE FOUNDATION C Sang-Yeon Ryu, Kyung Hee University, Korea	F TOWER CRANES	
S20-5 16:40	INCORPORATING CONTEXT LEVEL PARAMETERS TO IM SangHyun Lee, University of Alberta, Canada	PROVE OPERATION ANALYSIS IN STEEL FABRICATION SHOPS	
S20-6 16:55	OPTIMIZATION ALGORITHM FOR AUTOMATIC LAYOUT Dong-Hoon Lee, Kyung Hee University, Korea	OF TOWER CRANES	

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Hak-Ju Lee, Korea University, Korea

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