

Final Program

The 8th International Symposium on Architectural Interchanges in Asia

第8回アジアの建築交流国際シンポジウム

Asian View : Order and Wisdom for the Future

November 9～12, 2010

Kitakyushu International Conference Center, Kitakyushu, Japan

Hosted by

Architectural Institute of Japan

Organized by

Architectural Institute of Korea／Architectural Society of China／Architectural Institute of Japan
／Kitakyushu City

Introduction

The International Symposium on Architectural Interchanges in Asia (ISAIA) is a biennial International Symposium co-sponsored by the Architectural Institute of Japan (AIJ) together with the Architectural Society of China and the Architectural Institute of Korea (AIK). The 8th ISAIA is scheduled to be held on November 9~12, 2010 in Kitakyushu, and hosted by AIJ. The organizing committee of ISAIA welcomes professors, architects, building engineers, researchers and students to take part in the symposium.

'The International Symposium on Architectural Interchanges in Asia' was established to promote communication with people in the rest of Asia and cooperate for the development of 21st Asian architecture and culture in 1986. And the history of it follows as;

1st ISAIA		September 6-12, 1986, Fukuoka, Kyoto and Tokyo, Japan
2nd ISAIA	"Asian Architecture in the 21st Century"	September 8-10, 1998, Kobe, Japan
3rd ISAIA	"Challenges and Roles of Asian Architecture for the New Millennium"	February 23-25, 2000, Jeju, Korea
4th ISAIA	"Resource Architecture and Modern Technology"	September 17-19, 2002, Chongjin, China
5th ISAIA	"Global Environment and Diversity of Asian Architecture"	June 1-4, 2004, Matsue, Japan
6th ISAIA	"A+T : Neo-Value in Asian Architecture"	October 25-28, 2006, Daegu, Korea
7th ISAIA	"Urban Renewal and Architecture Creation "	October 15-17, 2008, Beijing, China
8th ISAIA	"Asian View : Order and Wisdom for the Future"	November 9-12, 2010, Kitakyushu, Japan

*The 1st ISAIA was held in conjunction with AIJ 100th Anniversary.

The theme of the 8th ISAIA is "Asian View : Order and Wisdom for the Future".

Our region has rich resources of knowledge and wisdom. It is supported by myriads of cultures that have generated and developed throughout the long history of mankind, and, equipped with advanced technological environment. We encourage your participation in the discussions with many ideas brought forth from the Asian perspective, with contemporary views and technology from present day Asia.

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Welcome Messages



Shigeru Satoh

President of AIJ

Chairman of Organizing Committee



George Kunihiro

Chairman of Steering Committee

For The Architectural Institute of Japan (AIJ), it is with our honor and pleasure to welcome all the participants of the 8th International Symposium on Architectural Interchange in Asia (ISAIA). This year, we have selected Kitakyushu City as the host city for our event on the island of Kyushu. The city's ideology, "Toward Becoming an International and Technological City with Waterfront, Green Environment and Human Contact" will give our symposium, whose theme is "Asian View : Order and Wisdom for the future", much insight into the Asian perspective through lively discussions.

We have consumed a decade in the Twenty-First Century. During these ten years, global society has seen a great change. China has emerged as a key international player with a great potential to influence the course of our international society. Global warming has become a critical issue to solve for the international community. Further advancement of Information Technology has brought the world ever closer. We hope to encourage the participants to take an active role in tackling the problems caused by these changes we have seen, especially from the perspective of our Asian wisdom we have developed and nurtured for many centuries.

Since our first gathering of the ISAIA in 1986 in Tokyo, our scholars from China, Korea and Japan, together with researchers and academics from the Asia region as a whole, have contributed to the advancement of architectural research through sharing their knowledge and wisdom. We are excited to come together again in 2010 to transmit to the world our "Asian View". In the past, ISAIA has contributed to the creation of cooperative environment for all academics and researchers of the region and it is our hope to continue to develop such atmosphere of cooperation in this year's gathering.

This year, we have created four Theme Session and seven Academic Sessions, which will focus on the themes such as urban housing, historical research in Asia, sustainable city, and the prevention of seismic disaster, all catered to welcome the discussions amongst scholars, professionals and the stakeholders. It is our sincere wish that the gathering of ISAIA in Kitakyushu will foster new friendship among all generations of the participants and renew old friendship amongst the colleagues.

On behalf of all the members of AIJ, I would like to express our gratitude for your participation and contribution, and welcome you, once again, to the 8th International Symposium on Architectural Interchange in Asia (ISAIA).

Welcome Messages



Eon Ku Rhee

President of AIK

It is a great pleasure and an honor for me to welcome you, on behalf of Architectural Institute of Korea, to the 8th International Symposium on Architectural Interchanges in Asia.

We gather here in Kita-Kyushu, Japan, under the main theme of “Asian View : Order and Wisdom for the Future”, to explore and exchange the state-of-art knowledge and practices for the improvement of our built environment. As noted in the program statement, our region has rich resources of knowledge and wisdom. And these include the respect for nature and mankind itself. During the last century, however, we have forgotten or ignored this fundamental value of Asia, and have indulged ourselves in the development of materialism or mammonism. However, the first decade of the 21st century has enlightened the mankind that, if nature is ignored and natural resources are abused, our planet and civilization are not sustainable at all.

This is the time, before it is too late, to restore the Asian value of the respect for nature and mankind in every aspects of our life, and especially in urban and built environments which shape our research, practice, and profession. I encourage your participation in the discussions and debates with many ideas brought forth from the vision of sustainable architecture integrating Asian perspectives.

I am grateful to all the participants from Japan, China, Korea and many other countries who have been enthusiastically supportive toward the success of the Symposium. I would like to thank Professor Shigeru Sato, President of Architectural Institute of Japan, and all the colleagues of AIJ for their sincere cooperation and participation. I am also very grateful to Professor George Kunihiro, the Chairman of the Steering Committee, and other committee members who have reluctantly labored for the progress and success of the Symposium.

Finally, I would like to applaud the speakers and authors of the papers who have contributed valuable time and enthusiasm in preparing esteemed papers for the Symposium. Thank you very much.

Welcome Messages



Chunhua Song

President of ASC

Dear Delegates, Guests,
Ladies and Gentleman:

Good Morning!

The 8th International Symposium on Architectural Interchange in Asia is held in the beautiful city of Kitakyushu, Fukuoka. In the name of ASC, we congratulate to the opening of the 8th ISAIA symposium and express our sincere thanks to the hosts of AIJ and the city of Kitakyushu.

The theme of the 8th ISAIA symposium is “Asian View: Order and Wisdom for the Future”. This topic should be interested to the professionals from Asian and from other parts of the world as well. In recent years, rapid urbanization sprawls in China and many other Asian cities. Thus, bring negative factors in city environment and natural resources, we do need the “order” for the balance of urbanization development and the sustainability of environment; we also need “wisdom” for the future development in architecture, the ISAIA provide a platform for Asian architects to exchange their concepts, creative thoughts and experience, a “clear path” should be built through these discussions and debates, which will lead to the health development in future architecture.

By this chance, we would like to thank all the participants from Japan, Korea, China and other countries and regions for their continuous support to the ISAIA symposium that make ISAIA a great international event.

We sincerely wish the 8th ISAIA symposium a great success!

Thank you!

Welcome Messages



Kenji Kitahashi

Mayer of Kitakyushu City

Good morning, Ladies and Gentlemen!

It is a matter of great pleasure to me that the 8th International Symposium on Architectural Interchange in Asia should be held this November in Kitakyushu.

I am sure that, like myself, you are all looking forward to the symposium, where scholars from Japan, China, Korea and other parts of Asia will come together and hold discussions aimed at finding the ideal architecture and urban landscapes for Asia in the 21st century, while throwing light on the architectural traditions of their various countries as seen from historical and institutional perspectives.

The city of Kitakyushu strives to be the “World’s Environmental Capital” , and we have always taken an active stance toward tackling environmental issues such as countering pollution, the development of a recycling-based society, and environmental cooperation on an international scale. Using what we have learned through past efforts and, based on the belief that environmental efforts taken today will make the world a better place to live in tomorrow, we have been dynamically promoting diverse efforts to be the “Eco-Model City” that will lead the world in its switch to a low-carbon future.

In the field of architecture, in order to reduce the amount of CO₂ emissions from the household sector, we are actively “developing and promoting low carbon city blocks” as well as “the popularization of energy-conservation architecture” in an effort to realize a lifestyle that is comfortable as well as easy on the environmental.

Against this background, I think it is truly timely and significant that an international symposium on the topic “Order and Wisdom for the Future” should be held in this city.

I hope that the 8th International Symposium on Architectural Interchange in Asia will provide an opportunity for fruitful instruction and exchange for all participants and wish it all the success!

Program

	Nov. 8 (Mon)	Nov. 9 (Tue)	Nov. 10 (Wed)	Nov. 11 (Thu)	Nov. 12 (Fri)
8:00					
9:00			Opening Ceremony (Main Hall)		
10:00	Student Workshop	Student Workshop (Room 11)	Keynote Speeches (Main Hall)	Student Workshop (Room 11) Academic Sessions B-1 ~ 2, E-1 ~ 3 (Conference Center) C-5 ~ 7, D-3 ~ 4 (AIM Building) Theme Sessions TS-C (International Conference Hall)	Excursion Breathtaking 360 Degree Panoramic Tour of the Kanmon Straits
11:00					
12:00					
13:00			Lunch (Event Hall)	Lunch (Event Hall)	
14:00			Academic Sessions A-1 ~ 3, D-1 ~ 2 (Conference Center) C-1 ~ 4 (AIM Building) Theme Sessions TS-A (International Conference Hall) TS-B (Main Hall)	Academic Sessions B-3 ~ 5, E-4 ~ 5, P-1 (Conference Center) A-4 ~ 7 (AIM Building) Theme Sessions TS-D (Main Hall)	
15:00		Registration (Lobby)			
16:00					
17:00					
18:00					
19:00		Welcome Reception (Event Hall, Conference Center)	Executive Meeting AIK , ASC , AIJ	Farewell Party (Rihga Royal Hotel Kokura)	
20:00					
21:00					

Program in Detail

Date / Time	Program	Location
Nov 9 (Tue)	13:00 ~ 18:00 Registration	Lobby, Conference Center
	18:00 ~ 20:00 Welcome Reception (Dinner) Chair Dewanker Bart (The University Kitakyushu, Japan) Speech Shigeru Satoh (President of AIJ) Eon Ku Rhee (President of AIK) Chunhua Song (President of ASC) Wataru Aso (Govenor of Fukuoka Prefecture, Japan) Kenji Kitahashi (Mayer of Kitakyushu City, Japan)	Event Hall, Conference Center
Nov 10 (Wed)	8:00 ~ 17:00 Registration	Lobby, Conference Center
	9:00 ~ 9:30 Opening Ceremony Chair Shu Yamane (The University of Shiga Prefecture, Japan) Speech Shigeru Satoh (President of AIJ) Eon Ku Rhee (President of AIK) Chunhua Song (President of ASC) Kenji Kitahashi (Mayer of Kitakyushu City, Japan)	Main Hall, Conference Center
	9:30 ~ 12:00 Keynote Speech Chair George Kunihiro (Kokushikan University) Speech Sohyun Park (Associate Professor, Dept of Architecture, Seoul National University, Director, Graduate Program of Urban Design, Seoul National University, Korea) Kai Cui (China Architecture Design Master, Vice President of ASC) Fumihiko Maki (Architect, Maki and Associates, Japan)	
	12:00 ~ 13:30 Lunch	Event Hall, Conference Center
	13:30 ~ 17:00 Theme Session A Strategy and Design for Seismic Rehabilitation of Existing Structures	International Conference Hall, Conference Center
	Theme Session B Flight Charts of Asian Architectural Historians	Main Hall, Conference Center
	13:30 ~ 16:45 Academic Sessions (12 minutes Presentation & 3 minutes Q & A)	
	A-1 : Architectural Planning and Design	Room21CD (2F), Conference Center
	A-2 : Architectural Planning and Design	Room21AB (2F), Conference Center
	A-3 : Architectural Planning and Design	Room22 (2F), Conference Center
	C-1 : Sustainable Environment	Room312 (3F), AIM Building
	C-2 : Sustainable Environment	Room313 (3F), AIM Building
	C-3 : Sustainable Environment	Room314 (3F), AIM Building
	C-4 : Sustainable Environment	Room315 (3F), AIM Building
	D-1 : Urban Renovation and Community Development	Room32 (3F), Conference Center
	D-2 : Urban Renovation and Community Development	Room33 (3F), Conference Center
	17:30 ~ 21:00 Executive Meeting (Representatives of AIJ, AIK and ASC)	Room31 (3F), Conference Center

Date / Time		Program	Location
Nov 11 (Thu)	8:00 ~ 17:00	Registration	Lobby, Conference Center
	9:00 ~ 12:30	Theme Session C Regeneration of Urban Housing in Asia	International Conference Hall, Conference Center
	9:00 ~ 12:15	Academic Sessions (12 minutes Presentation & 3 minutes Q & A)	
		B-1 : Conservation and Revitalization of Historical Resources	Room32 (3F),Conference Center
		B-2 : Conservation and Revitalization of Historical Resources	Room33 (3F), Conference Center
		C-5 : Sustainable Environment	Room313 (3F), AIM Building
		C-6 : Sustainable Environment	Room314 (3F), AIM Building
		C-7 : Sustainable Environment	Room315 (3F), AIM Building
		D-3 : Urban Renovation and Community Development	Room311 (3F), AIM Building
		D-4 : Urban Renovation and Community Development	Room312 (3F), AIM Building
		E-1 : Structural Engineering, Disaster Prevention (Mitigation) and Risk Management	Room21CD (2F), Conference Center
		E-2 : Structural Engineering, Disaster Prevention (Mitigation) and Risk Management	Room21AB (2F), Conference Center
		E-3 : Structural Engineering, Disaster Prevention (Mitigation) and Risk Management	Room22(2F), Conference Center
	12:15 ~ 13:30	Lunch	Event Hall, Conference Center
	13:30 ~ 17:00	Theme Session D Kitakyushu Session "Low-Carbon Urban Design in Asia"	Main Hall, Conference Center
	13:30 ~ 16:45	Academic Sessions (12 minutes Presentation & 3 minutes Q & A)	
		A- 4 : Architectural Planning and Design	Room312, AIM Building
		A- 5 : Architectural Planning and Design	Room313, AIM Building
		A- 6 : Architectural Planning and Design	Room314, AIM Building
		A- 7 : Architectural Planning and Design	Room315, AIM Building
		B-3 : Conservation and Revitalization of Historical Resources	Room22 (2F), Conference Center
		B-4 : Conservation and Revitalization of Historical Resources	Room32 (3F), Conference Center
		B-5 : Conservation and Revitalization of Historical Resources	Room33 (3F), Conference Center
		E-4 : Structural Engineering, Disaster Prevention (Mitigation) and Risk Management	Room21CD (2F), Conference Center
		E-5 : Structural Engineering, Disaster Prevention (Mitigation) and Risk Management	Room21AB (2F), Conference Center
		P-1 : Proposal Session	International Conference Hall, Conference Center
	18:00 ~ 20:00	Farewell Party	Royal Hall (4F), Rihga Royal Hotel Kokura
Nov 12 (Fri)	9:00 ~ 17:00	Excursion "Breathtaking 360 Degree Panoramic Tour of the Kanmon Straits"	Rihga Royal Hotel Kokura (Lobby, 8:30)

Keynote Speeches

Nov 10 (Wed) 9:30~12:00

Main Hall, Conference Center



Three Community Design Stories from Korea: Conflicting Views for Desirable Cities and Livable Neighborhoods:

Sohyun Park

Associate Professor, Dept of Architecture, Seoul National University

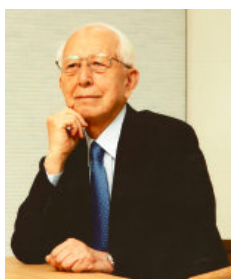
Director, Graduate Program of Urban Design, Seoul National University, Korea



Native Design

Kai Cui

China Architecture Design Master, Vice President of ASC, China



The Concept of *Oku*

Fumihiko Maki

Architect, Maki and Associates, Japan

Theme Session

Nov 10 (Wed) 13:30~17:00

International Conference Hall, Conference Center

Theme Session A Strategy and Design for Seismic Rehabilitation of Existing Structures

In this session recent examples of existing building rehabilitation projects in Japan is introduced in detail by the leading architect and consultant in the field. The difficulties which were confronted and overcome throughout the whole process, both legal and physical are presented. The strategy to construct a society which enables building stock rehabilitation smoothly and adequately is discussed with the invited speakers from China and Indonesia, where they face similar problems.

Chair: Kaori Fujita (Associate Professor, The University of Tokyo, Japan)

Vice Chair: Toru Eguchi (Assistant Professor, Yokohama National University)

Speakers: Shuichi Matsumura (Professor, The University of Tokyo, Japan)
Masakuni Tamura (Doctor, Representative Director, Arcbrain Co., Ltd., Japan)
Shigeru Aoki (Professor, Tokyo Metropolitan University, Japan)
Yue Fan (Dean and Professor, Dalian Institute of Technology, China)
Laretna T. Adishakti (Lecturer, Universitas Gadjah Mada, Indonesia)

Nov 10 (Wed) 13:30~17:00

Main Hall, Conference Center

Theme Session B Flight Charts of Asian Architectural Historians

Researchers of the architectural history in East Asian countries are now very actively spreading their fields to foreign Asian countries. In this session, we would like to share the recent research movements in Asian countries and discuss the future directions of the researches on Asian architectural history.

Moderator: Akihito Aoi (Associate Professor, Meiji University, Japan)

Speakers: Zhang Song (Professor, Tongji University, China)
Kangmin Lee (Lecturer, Seoul National University, Korea)
Shoichi Ota (Associate Professor, Kyoto Institute of Technology, Japan)
Rémi Wei-Chou WANG
(Assistant-Professor, National Taipei University of Technology, Taiwan)
Heng Chye Kiang (Dean and Professor, National University of Singapore, Singapore)

Nov 11 (Thu) 9:00~12:30

International Conference Hall, Conference Center

Theme Session C Regeneration of Urban Housing in Asia

Discuss about the regeneration of urban housing in Asia from the global viewpoint of tradition and culture in Asian urban housing. Speakers are architects and researchers practicing and researching on the regeneration of urban housing in several Asian countries including China, Korea and Japan.

Moderator: Tetsuya Ukai (Associate Professor, Kyushu University, Japan)

Speakers: Masashi Sogabe (Professor, Kanagawa University, Japan)
Katsuhiro Miyamoto (Professor, Osaka City University /
Principal, Katsuhiro Miyamoto & Associates, Japan)
Masanori Tomii (Professor, Hanyang University, Korea)
Hironori Matsubara (Associate Professor, Keio University SFC / Principal, BMA, Japan)

Nov 11 (Thu) 13:30~17:00

Main Hall, Conference Center

Theme Session D Kitakyushu Session "Low-Carbon Urban Design in Asia"

Present about eco-friendly urban design of the future of Asia and its directivity on the topic of Kitakyushu, Eco-Model City in Japan. Discuss about the difference and the actual condition of an environmental sense of values between the Asian countries where urbanization are advancing.

[Program]

Part 1 International Student Design Competition and Workshop "Kitakyushu Sustainable Coastal City 2050"

- 1) Awards Ceremony at the Design Competition
- 2) Presentation of the Results of Workshop

Part 2 Theme Session "Low-Carbon Urban Design in Asia"

- 1) Keynote Lecture "Actions of Eco-Model City in Kitakyushu City"

Speaker: Yasuhiko Furukado (Chief Executive, Buildings and City Planning Bureau, City of Kitakyushu, Japan)

- 2) Panel Discussion

Coordinator: Weijun Gao (Professor, The University of Kitakyushu, Japan)

Panelists: "The plan of developing and utilizing renewable energy into Technopolis in Daegu"

Won-hwa Hong (Professor, Kyungpook National University, Korea)

"Asia View of Life – the Architecture Co-existing with Nature –"

Xintian Wang (Chief Architect, Shanghai Nikko Architectural Consultation Co. LTD, China)

"Ecological city image and lifestyle image in Wakamatsu Ward, Kitakyushu City"

Koji Itonaga (Professor, Nihon University)

"A Proposal of Compact City to Escape from Car-Oriented City"

Hiroatsu Fukuda (Professor, The University of Kitakyushu, Japan)

Commentator: Shigeru Satoh (President, AIJ, Professor, Waseda University, Japan)

Chairs of Academic Sessions

Date		Nov 10 (Wed)
Room		13:30-16:45
Conference Center	Main Hall (1F)	Theme Session-B Flight Charts of Asian Architectural Historians
	International Conference Hall (2F)	Theme Session -A Strategy and Design for Seismic Rehabilitation of Existing Structures
	Room 21 CD (2F)	A-1 ◎Kaname Yanagisawa (Chiba University) ○Young-Min Koo (Inha University)
	Room 21 AB (2F)	A-2 ◎Akiko Watanabe (Tokyo Denki University) ○Eui-Young Chun (Kyonggi University)
	Room 22 (2F)	A-3 ◎Osamu Sakuma (Miyagi University) ◎Sachiko Yamamoto (Yamaguchi University) ○Kai Cui (Vice President of ASC)
	Room 32 (3F)	D-1 ◎Miki Korenaga (KMKa Architects Office) ○Myung-Sik Lee (Dongguk University)
	Room 33 (3F)	D-2 ◎Aya Kubota (University of Tokyo) ○Jae-Pil Choi (Seoul Natinal University)
AIM Building (3F)	Room 311	
	Room 312	C-1 ◎Weijun Gao (University of Kitakyushu) ◎Miki Yoshizumi (Kyoto University) ○Hway-Suh Kim (Dankook University)
	Room 313	C-2 ◎Bart Dewancker (University of Kitakyushu) ◎Masato Nakashima (Ministry of Land, Infrastructure, Transport and Tourism) ○Jin-Chul Park (Chung-ang University)
	Room 314	C-3 ◎Go Iwashita (Tokyo City University) ◎Hiroto Takaguchi (Waseda University) ○Myoung-Souk Yeo (Seoul National University)
	Room 315	C-4 ◎Zhuguo Li (Yamaguchi University) ◎Liyang Fan (University of Kitakyushu) ○Jang-Hoo Seo (Chosun University)

◎:Chair, ○:Vice Chair

Nov 11 (Thu)	
9:00-12:15	13:30-16:45
	Theme Session -D Kitakyushu Session "Low-Carbon Urban Design in Asia"
Theme Session -C Regeneration of Urban Housing in Asia	P-1 ◎Kyoko Yamaga (Kanagawa University) ○Shigenao Onda (Hosei University)
E-1 ◎Norio Maki (Kyoto University) ○Dong-Eun Lee (Kyoungpook National University)	E-4 ◎Norio Maki (Kyoto University) ○Soo-Yeon Seo (Chungju University)
E-2 ◎Chang-Sik Choi (Hanyang University)	E-5 ◎Chan-Sik Park (Chung-ang University)
E-3 ◎Chang-Geun Cho (Choson University) ○Jae-Hyoun Choi (Chosun University)	B-3 ◎Shu Yamane (University of Shiga Prefecture) ○Baiping Zhang (Deputy Secretary General of the ASC)
B-1 ◎Shu Yamane (University of Shiga Prefecture) ◎Kyota Yamada (Kyoto University) ○Baiping Zhang (Deputy Secretary General of the	B-4 ◎Shoichi Ota (Kyoto Institute of Technology) ◎Takanori Yonezawa (Waseda University) ○Sung-Woo Kim (Yonsei University)
B-2 ◎Akihito Aoi (Meiji University) ○Jong-Wook Kwon (Yeungnam University)	B-5 ◎Kosuke Matsubara (University of Tsukuba) ○Mi-Seon Kang (Ewha Womans University)
D-3 ◎Miki Korenaga (KMKa Architects Office) ○Naoko Kuriyama (Kobe University)	
D-4 ◎Koichiro Aitani (Kyushu University) ○Young-Ook Kim (Sejong University)	A-4 ◎Susumu Mizuta (Hiroshima University) ○Kai Cui (Vice President of ASC)
C-5 ◎Takahiro Tanaka (Hiroshima University) ○Hongbo Ren (Ritsumeikan University)	A-5 ◎Katsuhiko Yashiro (Monotsukuri Institute of Technologists) ○Jung-In Kim (Soongsil University)
C-6 ◎Hiroshi Matsumoto (Toyohashi University of Technology) ○Jae-Ock Yoon (Hoseo University)	A-6 ◎Hikaru Kinoshita (Kansai University) ○Gahng-Ju Lee (Changwon National University)
C-7 ◎Tetsu Kubota (Hiroshima University) ○Jurng-Jae Yee (Dong-A University)	A-7 ◎George Kunihiro (Kokushikan University) ○Han-Jong Jun (Hanyang University)

Academic Session Program

Nov 10 (Wed)

13:30~16:45

A-1 Architectural Planning and Design

Room: 21CD

- A-01 A Study on Multipurpose Space of Elementary Schools in Korea**
HyunJung (Olivia) Yoo, Sangkyung Shin and Jiyoung Park
Korea Advanced Institute of Science & Technology (KAIST), Korea
- A-02 A study the Plan of the Recently Elementary School in Japan -Analysis of Learning Space around Multipurpose Space-**
Youngju Yoo¹, Hoseoup Rieu² and Kaname Yanagisawa¹
¹ University of Chiba, Japan and ² University of Dong-Eui, Korea
- A-03 Analysis on the Relationship between Children's Activities and Spaces Utilization at Makuhari International School**
Mai Morita, Aoi Uchida, Yoshito Kawakami and Kaname Yanagisawa
Chiba University, Japan
- A-04 Studies on the Spaces and Activities of Innovative Open-planed Elementary Schools**
Yoshito Kawakami, Haruna Tajima, Yanan Fan, Mai Morita and Kaname Yanagisawa
Chiba University, Japan
- A-05 Integrated elementary and junior-high school facilities in Japan: Modeling of the open space usage by the pupils during recreation and lunch break**
Eric Lefebvre, Okinori Taniguchi and Yutaka Matsumoto
Osaka Sangyo University, Japan
- A-06 Cost Estimating for Public Facilities at Early Stage Using Functional Area Cost - Focusing on Military Army Barracks -**
Myungjun Jung¹, Hyun-soo Lee¹, Moonseo Park¹ and Bo-sik Son²
¹ Seoul National University and ² Namseoul University, Korea
- A-07 A Study on Housing Complex Child Care Space Design using U- Technology**
Healim Cho¹, Youngho Shin² and Yongseong Kim¹
¹ Kookmin University and ² Hyundai Development Construction, Korea
- A-08 Features and Tendency of Remodeling in Korean Hospital Construction**
Sang Bok Kim and Nae Won Yang
Hanyang University, Korea
- A-09 The Changes in Layout and Zoning System of University Libraries in Japan**
Puei Kuen Cheow and Kazuhiko Nishide
University of Tokyo, Japan

Nov 10 (Wed)

13:30~16:45

A-2 Architectural Planning and Design

Room: 21AB

- A-10 A study on Urban Vertical Farm Design using Ubiquitous Technology**
Jaeil Lee, Kiljae Ahn and Yongseong Kim
Kookmin University, Korea
- A-11 Research on UEC Architectural Design using U-Technology**
Woosik Jeon, Hyoungwoo Lee and Yongseong Kim
Kookmin University, Korea
- A-12 Patterns and Schemata in Japanese Spatial Design - a study of the order and wisdom of Japanese spatial design -**
Osamu Sakuma
Miyagi Univesity, Japan
- A-13 Research on HCI Development-related Architecture: Focusing on the Limits of Architectural Design**
Jeakoo Ju and Hanjong Jun
Hanyang University, Korea
- A-14 The study on barriers to the adoption of BIM and changes in mind**
Sangheon Lee and Hanjong Jun
Hanyang University, Korea
- A-15 A Study on the Emergence of Seriality in the Surface of Contemporary Architecture**
You-Chang Jeon, Sung-Wook Kim and Hae-Jun Jeong
Ajou University, Korea

- A-16 Architectural Planning living with robotics**
Akiko Watanabe¹ and Yoshitaka Mikami²
¹Tokyo Denki University and ²Uchida Yoko Co., Ltd, Japan
- A-17 A Study on the Features of Depaysement Technique Exhibited in Contemporary Urban Deign**
Sukpil Yoon and Young Min Koo
Inha University, Korea
- A-18 The “Visible” Form of Plant as an “Invisible” Form of Architecture**
Bojan Milan Koncarevic
University of Tokyo, Japan
- A-19 Information representation model and tracing method for requirements using semantic tagging in construction planning stage**
HyunKyun Jung, JaeHo Cho, JongSik Lee and JaeYoul Chun
DanKook University, Korea
- A-20 Data Link Model of 4D Simulation for Optimization of Schedule Management**
Joo-Sung Lee¹, Sung-Kon Moon², Ju-Hyung Kim¹ and Jae-Jun Kim¹
¹Hanyang University, Korea and ²University of New South Wales, Australia
- A-21 A Study on the Design Process of BIM-based Design Competition: Focusing on Korea Power Exchange Project**
Hee-Chang Seo, Ju-Hyung Kim and Jae-Jun Kim
Hanyang University, Korea

Nov 10 (Wed)

13:30~16:45

A-3 Architectural Planning and Design

Room: 22

- A-22 From tradition to abstraction: Towards a new identity of the japanese residential space from the dawn of post second World War**
The case of Kazuo Shinohara, Arata Isozaki and Sou Fujimoto
Nathalie Eldan and Yutaka Matsumoto
Osaka-Sangyo University, Japan
- A-23 Similarity in form,spirit and structure**
traditional dwellings -the mirror of modern architectural design in Fuzhou area
Wenjing Lin
Construction Bureau of Fuqing, Fujian, China
- A-24 Analysis of Japanese tea rooms according to “Saho” rule of manners**
Aya Nagao and Takao Akagawa
University of Kitakyushu, Japan
- A-25 Conversion of traditional farmer’s house to the urban-rural exchange facility in mountainous region**
Sachiko Yamamoto and Mahito Nakazono
Yamaguchi University, Japan
- A-26 A Study on a Parametric Design of Han-ok**
Jeonghyun Kim and Bonghee Jeon
Seoul National University, Korea
- A-27 The cultural framing of Japanese architecture by Jiro Harada**
Izumi Kuroishi
Aoyama Gakuin University, Japan
- A-28 Research on the Emotional Arts of Chinese Traditional Business Environment**
Bo-jia Liu and Ling-gao Li
Yanshan University, China
- A-29 A study on the planning of spatial relations in neighborhoods**
Tomohiro Mikasa and Tsutomu Shigemura
Kanagawa University, Japan
- A-30 Blossoming in China: Zhengdong New District planned by Kisho Kurokawa**
Charlie Qiuli Xue, Luther Tsai and Ying Wang
City University of Hong Kong, Hong Kong
- A-31 Considerations on spatial characteristics in Ban Nakasang (Laos)**
Ai Yamada and Shuji Funo
The University of Shiga Prefecture, Japan
- A-32 Considerations on Spatial Formation of Tai-Lao Settlement in the Central Mekong Basin**
Chantane Chiranthanut¹, Mari Tanaka² and Shuji Funo¹
¹The University of Shiga Prefecture and ²Gunma University, Japan

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- A-33 A Study on the Effect of Neighborhood Unit to the Land Adjustment in Seoul**
 Yong-chan Kwon and Bong-hee Jeon
Seoul National University, Korea

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C-1 Sustainable Environment

Room: 312

- C-01 Sustainability of community linkage in historic old quarters under urbanization :Case study on the neighborhood community in Gia Hoi area of Hue city, Central Vietnam**
 Miki Yoshizumi¹, Tung Ngoc Nguyen¹, Hiorhide Kobayashi¹, Huy Quang Nguyen² and Masami Kobayashi¹
¹ *Kyoto University, Japan and* ² *Hue College of Sciences, China*
- C-02 Change of the living environment according to transition of land use in Bandung, Indonesia**
 Yuki Hamada, Liyang Fan and Weijun Gao
University of Kitakyushu, Japan
- C-03 Applicability of Form-Based Codes in Japan: Achieving Sustainable City**
 Kota Kawasaki
Tokyo Kensetsu Consultants Co., Ltd., Japan
- C-04 Land Use Control of Urbanization Control Areas in Cold and Snowy Cities**
 Yoshinori Oyanagi¹, Makoto Sugawara² and Tsuyoshi Setoguchi³
¹ *Hokkaido Research Organization,* ² *Hokkaido Government and* ³ *Hokkaido University, Japan*
- C-05 Land Use Control in the Process of Urbanization**
 Shoushuai Du and Weimin Guo
Southern Yangtze University, China
- C-06 Human settlement's social network analysis based on spatial trend surface model:a case study of ChongQing municipality**
 Yang Wang^{1,2} and Yong Huang²
¹ *Chongqing Normal University and* ² *Chongqing University, China*
- C-07 Creating a sustainable residential environment through a pocket park project**
 Noriko Sakurai¹, Shin-ya Nishimura¹, Satoshi Boda¹ and Tsutomu Kobayashi²
¹ *Niigata University and* ² *Miyoshi Design Office, Japan*
- C-08 Designing and building project with collaboration between students, inhabitants and local professionals in Tochio JAPAN**
 Satoshi Boda¹, Shin-ya Nishimura¹, Akihiko Iwasa¹, Noriko Sakurai¹ and Tsutomu Kobayashi²
¹ *Niigata University and* ² *Miyoshi Design Office, Japan*
- C-09 Utilization of Local Resources on Environmental Education Activity**
 Maki Watanabe, Nobuo Mitsuhashi and Hiroyuki Honjo
Utsunomiya University, Japan
- C-10 Re-development of Slope City by Community Revitalization at Kita-Oura Area in Nagasaki**
 Mitsuhiko Nakashima, Liyang Fan and Weijun Gao
University of Kitakyushu, Japan
- C-11 A Study for Concept and Development Strategy of Place that appear in Slow City**
 Yosep Choi and Jaemo Cho
Kyungpook National University, Korea
- C-12 A Multiple Residence Framework for Sustaining an Insular Community**
 Kentaro Yagi
Nishinippon Institute of Technology, Japan

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C-2 Sustainable Environment

Room: 313

- C-13 A study on the preferable urban structure of provincial small town in the depopulation age: Evaluating future scenarios from the viewpoint of urban infrastructure development and maintenance cost in Fuchu City, Hiroshima.**
 Shimpei Iwamoto, Takahiro Tanaka and Daisaku Nishina
Hiroshima University, Japan
- C-14 A study on the Masterplan Emscher Landscape Park 2010**
 Bart Dewancker
The University of Kitakyushu, Japan

- C-15 Planning Strategy of Integrated Coastal Zone Management in Bohai Bay Area, China**
Daqiang Wang¹, Shichen Zhao¹, Qingyu Gong² and Yuki Ogawa¹
¹ Kyushu University, Japan and ² Tianjin University, China
- C-16 A study on Sustainable Urban Transportation Design in Kobe**
Yui Konishi and Weijun Gao
University of Kitakyushu, Japan
- C-17 Research on the Green Roof policy in Japan and Germany**
- A case study of the Rooftop planting policies in Tokyo and Berlin -
Hoshirou Nakamura and Bart Dewancker
The University of Kitakyushu, Japan
- C-18 Urban Greening for A Sustainable City-Issues and Challenges in Urban Hong Kong**
Kwok keung kevin Yap
City University of Hong Kong, Hong Kong
- C-19 Sustainable Region Strategies in the Wide-area Regional Plans of Kyushu**
Masato Nakashima¹ and Atsushi Deguchi²
¹ Ministry of Land, Infrastructure, Transport and Tourism and ² Kyushu University, Japan
- C-20 Strategies for green city in planning Korea**
Yangbin Im¹ and Cheonbo Park²
¹ Konyang University and ² Hanbat National University, Korea
- C-21 Investigation of Low-Carbon City Initiative in China: Achievements and Prospects**
Hongbo Ren¹, Weisheng Zhou¹, Weijun Gao² and Qiong Wu²
¹ Ritsumeikan University and ² The University of Kitakyushu, Japan
- C-22 Field Measurement of Thermal Environment in the Middle size City**
Jaeock Yoon
Hoseo University, Korea
- C-23 Quality control and predicting hourly solar irradiation on inclined surfaces in South Korea**
Kwanho Lee¹, Hochun Yoo² and Geoff J. Levermore³
¹ Ulsan College, ² University of Ulsan, Korea and ³ Manchester University, UK
- C-84 Characteristics of Relation between Urban Structure and Population Dynamics**
Hiroki Ogawa
Akita Prefectural University, Japan

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C-3 Sustainable Environment

Room: 314

- C-26 Plantable Concrete and Thermal Insulating Panel with PVC Waste**
Jieyong Li, Zhuguo Li and Qingtao Li
Yamaguchi University, Japan
- C-27 The Effect of Microorganism on Compressive strength of Mortar**
Wha-jung Kim, Jun-Cheol Lee and Woo-Young Chun
Kyungpook National University, Korea
- C-28 A Study on the Architectural Application of Aerogel**
Young Cheol Kwon
Halla University, Korea
- C-29 Hygrothermal Dynamics and Potential for Mold Growth in a Straw Bale Wall**
Kyle Holzhueter and Koji Itonaga
Nihon University, Japan
- C-30 Relationship between building materials, structure and volatile organic compounds indoor air**
Masamichi Hanazato, Hiroki Suzuki, Chisato Mori and Akira Kuryu
Chiba University, Japan
- C-31 A Study of Indoor Air Quality of Childcare Facilities by Season**
Ji Hye Lim, Young Min Jeong and Jang Yeul Sohn
Hanyang University, Korea
- C-32 Development of Olfactometer/Chamber System with Reference Gas for Sensory Evaluation of Emission from Building Materials**
Go Iwashita
Tokyo City University, Japan

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- C-33 Analysis of the Factors Affecting Satisfaction of the Occupancy in Multi-Family Residential Buildings: Indoor Environment**
See Nae Lee, Hae Jin Kang and Eon Ku Rhee
Chung-Ang University, Korea
- C-34 A Study on Correlation between Residents' Physical Health and the Floor Level in High-Rise Apartments**
Seungyi Kang¹, Jaehyuk Lee², Byunghee Lee¹ and Heaseong Je¹
¹Ajou University and ²Hanyang University, Korea
- C-35 A basic survey on indoor thermal environment in a tower-type apartment house in summer season**
Hyun Je Chang and Hyung-jin Kim
University of Hongik, Korea

Nov 10 (Wed)

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C-4 Sustainable Environment

Room: 315

- C-36 Integrated LCA using BIM for Environmental Performance in Buildings**
Hyun-woo Lee¹, Hway-Suh Kim² and Min-Seok Oh²
¹Kwangwoon University and ²Dankook University, Korea
- C-37 LCIA Tool With Function of Assessing Regional Environmental Impact Assessment For Building**
Zhuguo Li
Yamaguchi University, Japan
- C-38 High-rise residential quarter planning measures based on outdoor microclimate environment optimization**
Hong Leng¹, Qing Yuan¹ and Xue Song Yao²
¹Harbin Institute of Technology and ²Northeast Normal University, China
- C-39 A Fundamental Study on Solar Shading by Single Tree in Summer by Numerical Analysis using CG Tree Models -Development of a Solar Radiation Environmental Design Support Tool for a Greening Plan-**
Eiko Kumakura, Kazuaki Nakaohkubo and Akira Hoyano
Tokyo Institute of Technology, Japan
- C-40 The expression of ecological architecture language on facade**
Yali Wang and Xuesong Wang
University of Chongqing, China
- C-41 A study on the Design Strategies by Building types for realizing Zero Emission Building**
Yoon Sook Yeom, Hye Lin Lee, Seung Min Kim and Eon Ku Rhee
Chung-Ang University, Korea
- C-42 Estimation of Energy Savings Contribution Rate for Design Strategies of Apartment Houses in Korea**
Woo Jin Son, Hae Jin Kang, Jin Chul Park and Eon Ku Rhee
Chung-Ang University, Korea
- C-43 A Study on Zero Energy House Design using IT Technology**
Heedeock Jeong, Youngjun Park and Yongseong Kim
Kookmin University, Korea
- C-44 Design of Building Equipment System Considering Energy Saving and Economic Feasibility**
Janghoo Seo¹ and Ryoza Ooka²
¹Chosun University, Korea and ²The University of Tokyo, Japan
- C-45 A Study on the Application of Low Energy Cooling Systems in Office building**
Chang Bong Park¹, Oe Gon Kim¹ and Eon Ku Rhee²
¹Taeyoung E&C and ²Chung-Ang University, Korea
- C-46 A Priority Assessment of Renewable Energy System for the Application of Hybrid Renewable Energy Systems**
Soo Young Byun, Min Hee Chung, Jin Chul Park and Eon Ku Rhee
Chung-Ang University, Korea
- C-47 CFD simulation on the application of wind power system to super high-rise buildings**
Dongyun Lee and Jinchul Park
University of Chung-Ang, Korea

Nov 10 (Wed)

13:30~16:45

D-1 Urban Renovation and Community Development

Room: 32

- D-01 Significance of Ecovillage**
Koji Itonaga
Nihon University, Japan

- D-02 Cooperating with Local Residents to Envision a Sustainable Urban Environmental Framework and Low Carbon Lifestyle**
- A case study on Fussa City in Tokyo -
Shingo Maeno, Koji Itonaga, Kenji Uragami and Naoki Fujisawa
Nihon University, Japan
- D-03 The process of planning a low carbon society with local residents of a provincial city A case study of Wakamatsu Ward, Kitakyushu City, Fukuoka Prefecture**
Naoki Fujisawa, Shingo Meno, Kenji Uragami and Koji Itonaga
Nihon University, Japan
- D-04 Sustainable Urban Planning of Shrinking Cities in Japan**
-The Usage of GIS on Urban Planning in an Actual Project of Japan-
Yupeng Wang¹, Hiroatsu Fukuda¹, Liyang Fan¹, Takeshi Igarashi², Harumichi Yuasa³ and Kiyoshi Shinriki¹
¹ University of Kitakyushu, ² Waseda University and ³ University of Kyushu International, Japan
- D-05 Sustainable Urban Planning of Shrinking Cities in Japan**
-The Situation of Aging Society and Population of Kitakyushu-
Hiroatsu Fukuda¹, Yupeng Wang¹, Liyang Fan¹, Takeshi Igarashi², Harumichi Yuasa³ and Kiyoshi Shinriki¹
¹ University of Kitakyushu, ² Waseda University and ³ University of Kyushu International, Japan
- D-06 Study on the Urban Structure and Sustainable Urban Growth of Kitakyushu in Post-Industry Society**
Jianan Liu, Liyang Fan and Weijun Gao
University of Kitakyushu, Japan
- D-07 The possibility of urban design and sustainable community development at the shiodome-west district**
-Ordinance to promote elegant neighborhoods in Tokyo-
Hiroshi Tsuchida
Tokyo Denki University, Japan
- D-08 The Establishment of Assembly Facilities to create a New Community Form when Rebuilding Apartment Complexes**
Kenta Ohshiba¹, Naoki Fujisawa¹, Koji Itonaga¹, Yasuhiro Fujioka² and Kazuo Ohara²
¹ Nihon University and ² Yokohama National University, Japan
- D-09 The British and Worldwide Expansion of the Transition Movement to deal in Post Peak Oil and the Case in Japan**
Nae Sekino and Koji Itonaga
Nihon University, Japan
- D-10 Spatial Characteristics of Water-based Community at the Bang Namphueng Neighborhood**
Waricha Wongphyat
Chulalongkorn University, Thailand
- D-11 Rethinking of Protection and Renovation of the Daowai Historic Commercial District in the City of Harbin**
Qing Yuan and Hong Leng
Harbin Institute of Technology, China
- D-12 On Roles and Potencies of Workshop in Taiwan by Case studies of “Community Empowering Game”**
Kumie Nakano and Takeyuki Okubo
Ritsumeikan University, Japan

Nov 10 (Wed)

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D-2 Urban Renovation and Community Development

Room: 33

- D-13 On The Application Of Location Theory In Old City Reconstruction**
Wen Jiang and He-pin Li
Chongqing University, China
- D-14 An Experiment on Emergent Urban Design through Scripting the Collective Data**
Hyung Suk Seo and Young Min Koo
Inha University, Korea
- D-15 A study on Network theory with regard to Compact & Smart City**
Seok Choo and Young Min Koo
Inha University, Korea
- D-16 A Study on the Gender-sensitive Perspective in Women Friendly Urban Projects in Korea**
EunAh Cha¹, Mi Hyun Jang² and Miseon Kang²
¹ University of California, USA and ² Ewha Womans University, Korea
- D-17 Sustainable Slum Improvement Model Based on Community Participation in Dhaka City, Bangladesh.**
Mohammad Akharuzzaman and Atsushi Deguchi
Kyushu University, Japan

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- D-18 The Practice of Low Impact Development in the Small and Medium Cities' Urban Planning**
Wenyuan Wu¹ and Muneharu Yokomatsu²
¹APECLAND (Shenzhen) and ²APECLAND (Hong Kong), China
- D-19 A Study on the Future Direction of Rental Housing in Korea-With specific focus on 2010 Seoul Gangnam District International Design Competition**
Jaepil Choi, Jungwon Lee, Hyojeong Kang, Changwon Lee and Minu Lee
Seoul National University, Korea
- D-20 A Study on Housing Filtering Process in Seoul Metropolitan Area of Korea**
Sungjo Hong and Kunhyuck Ahn
Seoul National University, Korea
- D-21 Study on the Characteristic of Waterfront Development through Urban Regeneration**
Hong Yan, Hee-Won Choi and Sang-Ho Lee
Yonsei University, Korea
- D-22 District Plan of Shuangdao-Bay in Weihai City, Shandong, China**
Muneharu Yokomatsu¹ and Wenyuan Wu²
¹APECLAND (Hongkong) Inc., Hongkong and ²APECLAND (Shenzhen) Inc., China
- D-23 New Strategies with Green Features for Downtown Regeneration in Daejeon**
Cheonbo Park¹ and Yangbin Im²
¹Hanbat National University and ²Konyang University, Korea
- D-24 Review of the Housing Supply Changes in Urbanizing Area, Kathmandu Valley**
Ayako Maeshima, Shiro Watanabe, Hiroki Nakashima and Daichi Higashi
University of Tokyo, Japan

Nov 11 (Thu)

9:00~12:15

B-1 Conservation and Revitalization of Historical Resources

Room: 32

- B-01 The characteristics of inner areas in refurbished traditional Japanese timber houses**
Shinya Kaneko¹, Yuji Yosizawa², Miki Korenaga³, Toru Horie⁴ and Koji Yagi⁵
¹Kobe Design University, ²Showa Sekkei, ³KMKA, ⁴Nihon University and ⁵Tokyo Institute of Technology, Japan
- B-02 Architectural Characteristics and types of Seaweed House in Weihai City, China -Based on the case study of Weiwei Village, Gangxi Town, Rongcheng, Weihai City-**
Wenting Wang and Sungwoo Kim
Yonsei University, Korea
- B-03 "Binding Technique" of Rural House in Dongting Lake Area**
Jiansong Lu¹, Min Jiang¹ and Zhengjie Lu²
¹Hunan University and ²Hunan Changde Municipal Commission of Economy, China
- B-04 Conservation of the Traditional Japanese Wooden Buildings in Taiwan**
Chia-chi Chen¹ and Meng-Ting Tsai²
¹Tainan University of Technology, Taiwan and ²University of Tokyo, Japan
- B-05 A study on the Standardization of Han-ok Components for Mass Production**
Heamee Yang and Hanjong Jun
Hanyang University, Korea
- B-06 A study on the change before-after retiling a tiled roof on historic townscape -the case of traditional house on Preservation District for historic buildings in Yame city-**
Yuji Tamai, Hikaru Kinoshita, Hiroshi Miyazaki and Yasuki Yuda
Kansai University, Japan
- B-07 The relations of the village landscape and environmental management with local material**
Ikuko Kunisue¹, Kazumi Kudoh² and Juichi Yamazaki¹
¹Kobe University and ²AKASHI National College of Technology, Japan
- B-08 A Study on Traditional Dai Village with Comparative Research**
Xu Feng and Juichi Yamazaki
Kobe University, Japan
- B-09 Sharing of Design Knowledge of Traditional House in Kumandong by Using Ontology**
Jina Park
Sungkyunkwan University, Korea
- B-10 The Locational Characteristics of Existing Old Settlement in Cheongju Downtown of Korea**
Mi-Sun Kwon, Kyeong-Hwa Byun and Tai-Young Kim
Cheongju University, Korea
-

- B-11 A Study for the Geographic Condition of Shrines in Tsushima**
Takanori Yonezawa¹, Takeshi Nakagawa¹ and Minsuk Kim²
¹Waseda University and ²Ritsumeikan University, Japan
- B-12 The Spatial Composition of Copy of Landscapes Attributed to Sesshu**
Satoshi Ikesue and Rie Maki
Yamaguchi University, Japan

Nov 11 (Thu)

9:00~12:15

B-2 Conservation and Revitalization of Historical Resources

Room: 33

- B-13 Significance of Axial Composition in Ancient Khmer Cities**
Takeshi Nakagawa
Waseda University, Japan
- B-14 A New Aspect of the Ancient Khmer City Chok Gargyar (Koh Ker)**
Katsura Sato¹, Takeshi Nakagawa¹, Akinori Mizoguchi² and Ichita Shimoda¹
¹Waseda University and ²Meijo University, Japan
- B-15 Reconstruction of the largest building in Makimuku site**
-Applied study on building members excavated in Aoyakamijichi site (1)-
Yorikazu Okagaki, Tomomi Yoshikawa, Takuo Shimizu, Ai Imajo and Shigeo Asakawa
Tottori University of Environmental Studies, Japan
- B-16 Reconstruction of large buildings and rectangle division in Makimuku site**
-Applied study on building members excavated in Aoyakamijichi site (2)-
Takuo Shimizu, Ai Imajo, Yorikazu Okagaki, Tomomi Yoshikawa and Shigeo Asakawa
Tottori University of Environmental Studies, Japan
- B-17 A Modern Structure of Horyuji-Kondo Imaged by The Reconstruction Report**
Tsugunori Kimoto¹ and Masahiro Inayama²
¹Kimoto Architect and Environmental Planning Associates and ²University of Tokyo, Japan
- B-18 A study on the Eaves Curves of the Gable Roof**
Young-Rok Kim, Dae-chul Sung, Gang-Chul Park and Janghoo Seo
Chosun University, Korea
- B-19 The Historical Characteristic of □ Shape house around AnDong Cultural Area**
Chihoo Shin and Sung-Woo Kim
Yonsei University, Korea
- B-20 Differences of Roof Timber Structure Methods in Korean-style Kangwha Anglican Church with Clerestory**
Han Ul Son and Tai Young Kim
Cheongju University, Korea
- B-21 Wooden Structure and Space to Expand in China, Japan and Vietnam Comparative Study on History of Architecture in East Asia (1)**
Emiko Kanayama and Takeshi Nakagawa
Waseda University, Japan
- B-48 Representation of Ambiguity on the Spaces of two imperial houses; Youngyeongdang in Seoul, and Katsura-rikyu in Kyoto**
Jiae Han and Woo-Gab Shim
Seoul National University, Korea

Nov 11 (Thu)

9:00~12:15

C-5 Sustainable Environment

Room: 313

- C-48 Generation of Typical Meteorological Year for Seoul, Korea**
Kwon Sook Park and Yong Sang Yoon
Korea Institute of Construction Technology, Korea
- C-49 Building energy simulation using multi-years and Typical Weather data (TWD) in South Korea**
Hochun Yoo¹, Kwanho Lee² and Geoff J. Levermore³
¹University of Ulsan, ²Ulsan College, Korea and ³University of Manchester, UK
- C-50 A Study on Assessment of Renewable Energy Potential for Urban Typology**
Arum Jung, Min Hee Chung, Jin Chul Park and Eon Ku Rhee
Chung-Ang University, Korea

-
- C-51 Adoption and Dissemination of Distributed Energy Resource with the Climate Consideration**
Yoshitaka Jige and Weijun Gao
University of Kitakyushu, Japan
- C-52 Investigation and Analysis of Electricity Tariffs in Japan, China and Thailand**
Qiong Wu¹, Weijun Gao¹, Yongzhi Gao¹, Hongbo Ren² and Suapphong Kritsanawonghong³
¹*The University of Kitakyushu, ²Ritsumeikan University, Japan and ³3M Thailand Limited, Thailand*
- C-53 Potential Analysis on Waste Energy Management of the Industrial Park in Low-carbon Demonstration Area**
Ru Ye, Liyang Fan, Hidetoshi Fukahori and Weijun Gao
University of Kitakyushu, Japan
- C-54 Feasibility Study and Optimization on Introduction of Distributed Energy Resource System in a Low Carbon Aimed Residential Housing**
Liyang Fan¹, Weijun Gao¹ and Zhu Wang²
¹*University of Kitakyushu, Japan and ²Zhejiang University, China*
- C-55 Research on the Yearly Performance of the Distributed Energy System in Kitakyushu Science and Research Park**
Yusuke Onomiya, Yoshitaka Jige and Weijun Gao
The University of Kitakyushu, Japan
- C-56 Research on Electric Power Consumption of Public Building in Guangzhou**
Yongzhi Gao¹, Ji Xuan¹, Yutaka Tonooka² and Weijun Gao¹
¹*University of Kitakyushu and ²Saitama University, Japan*
- C-57 Study of Energy Consumption Structure of China's Non-residential building**
Hexiang Xu¹, Yongzhi Gao¹, Yutaka Tonooka² and Weijun Gao¹
¹*University of Kitakyushu and ²Saitama University, Japan*
- C-58 Survey on Indoor Environment and energy consumption in Kunming of China**
Tianchi Hu, Hiroshi Yoshino and Jie Zhou
Tohoku University, Japan
- C-83 A study on the BIM-based Design Techniques for Sustainable Architecture**
Mikyong Kim and Hanjong Jun
University of Hanyang, Korea

Nov 11 (Thu)

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C-6 Sustainable Environment

Room: 314

- C-59 Fenestration Effects on Air Exchange Efficiency Using Cross-ventilation for A Typical School Building in Taiwan**
Wei-Hwa Chiang, Jian-Sheng Huang, Huei- Ping Wu and Hao-Hsiang Hsu
National Taiwan University of Science and Technology, Taiwan
- C-60 A Review of Adaptive Model of Thermal Comfort for Naturally Ventilated Buildings in Hot-Humid Climate**
Doris Hooi Chye Toe^{1,2} and Tetsu Kubota¹
¹*Hiroshima University, Japan and ²Universiti Teknologi Malaysia, Malaysia*
- C-61 Smoke Control in High-rise Building Considering with the Enthalpy Equation**
Sungryong Bae, Kyoungchul Ro and Hong Sun Ryou
Chung-Ang University, Korea
- C-62 A Study on the Sensitivity Analysis of the Roof Factors affecting Energy Efficiency of a Building.**
OK Kim and Eon Ku Rhee
Chung-Ang University of Seoul, Korea
- C-63 Effects of Thermal Insulation Performance Upgrade and Operational Improvement at Eco-Schools in Cold Regions**
Koki Kikuta¹, Ayako Imai² and Hirofumi Hayama¹
¹*Hokkaido University and ²Yamatate Corporation, Japan*
- C-64 Influence of Differences of Heat Insulation Methods on Indoor Thermal Environment of Apartment Buildings - Comparison of Outside Insulation, Inside Insulation And Interior Insulation -**
Hikaru Sato, Hiroatsu Fukuda and Yupeng Wang
University of Kitakyushu, Japan
- C-65 A Survey on Actual Conditions of Residential Environment and Solar Energy Applied House in Tibetan Plateau**
Yasuko Yoshino¹, Yan Wang², Jiaping Liu³ and Liu Yang³
¹*Nihon University, ²Nihon University Research Institute of Science & Technology, Japan and ³Xi'AN University of Architecture and Technology, China*
- C-66 A Study on The Cooling Loads Reduction through A Case Study of Renovation for Office Building**
Eun Yul Kang, Tae Seob Lim and Byung Seon Kim
Yonsei University, Korea
-

- C-67 Experimental Study on the Thermal Performance of a Hybrid Heating and Cooling System with Radiant Floor Panels Heated or Cooled by Air**
Hiroshi Matsumoto and Satoru Ikeo
Toyohashi University of Technology, Japan
- C-68 An Evaluation of Energy Performance of Heating and Cooling System of Large Enclosure Gymnasium**
Choondong Kim¹, Jinhyeon Park², Dongho Choi¹, Jeonghum Yang² and Younghum Cho³
¹ *Catholic University of Daegu*, ² *University of Young-Nam* and ³ *Kumoh National Institute of Technology, Korea*
- C-69 Optimal VAV Terminal Box Control Algorithms**
Young-Hum Cho¹, Jeong-Hoon Yang² and Dong-Ho Choi³
¹ *Kumoh National Institute of Technology*, ² *Yeungnam University* and ³ *Catholic University of Daegu, Korea*
- C-70 A Study on the Comparison and Evaluation on Discomfort Glare by shape of LED lamp(line light source and surface light source)**
Won-tak Han and Jin-sook LEE
Chungnam National University, Korea

Nov 11 (Thu)

9:00~12:15

C-7 Sustainable Environment

Room: 315

- C-71 The Effect of Vertical Zoning of Multistory Double-Skin Facades Integrated with Cross Ventilation**
Won-Jun Choi, Jae-Wan Joe and Jung-Ho Huh
University of Seoul, Korea
- C-72 An Experimental Study on Thermal Performance of Double Skin Facade**
Goo Sang Joe, Ji Hye Kim, Myoung Souk Yeo and Kwang Woo Kim
Seoul National University, Korea
- C-73 Study on Outside Air Cooling System used in Data Processing Facility**
Iwao Yamaguchi, Makoto Koganei, Tomonobu Goto and Masataka Tsushima
Yamaguchi University, Japan
- C-74 Passive Cooling Methods for Modern Houses in Hot-Humid Climate of Malaysia with Special Focus on Night Ventilation Technique**
Tetsu Kubota¹ and Doris Hooi Chyee Toe^{1,2}
¹ *Hiroshima University, Japan* and ² *Universiti Teknologi Malaysia, Malaysia*
- C-75 Building Energy Performance Analysis of Ground Source Heat Pump System Applications**
Hyung Kyu Kang, Jae-Bum Park, Han Sol Kwon and Jung-Ho Huh
University of Seoul, Korea
- C-76 Evaluation of Heat Transfer Characteristics in an Underground Pit System Based on CFD Analysis**
Yumi Ashitani, Yasuyuki Shiraishi and Yuji Ryu
The University of Kitakyushu, Japan
- C-77 A Simulation-based Application of Energy Management System that Integrates Blind and Dimming Control Strategies**
Young-Hoon Kwak¹, Se-Hwan Cheon¹, Sang-Moon Lee² and Jung-Ho Huh¹
¹ *University of Seoul* and ² *Korea conformity Laboratory, Korea*
- C-78 Comparison study of DBLP(Double Blind Light Pipe) and LFLP(Linear Fresnel Light Pipe) daylighting system performance.**
Yong-Jeon Choi¹, Eun-Chul Kang² and Euy-Joon Lee²
¹ *Chungnam National University* and ² *Korea Institute of Energy Research (KIER), Korea*
- C-79 "Study on the Supply System for Sustainability Built Environment" Consideration for practical use of polyethylene pipes as water supply pipes of common areas in residential buildings.**
Sadanori Kadera and Noriyoshi Ichikawa
Tokyo Metropolitan University, Japan
- C-80 Feasibility Study on the Rainwater Harvesting at the Military Facility**
Jae-Bok Lim, Ju-Hyung Kim and Jae-Jun Kim
Hanyang University, Korea
- C-81 Charge and Discharge Characteristics of the Phosphoric Acid Iron Lithium (LiFePO₄) Battery in the Photovoltaic Power Generation**
Shiyan Du and Weijun Gao
University of Kitakyushu, Japan

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- C-82 Data Analysis on the Cogeneration System by Solar Wind Power LED Street Lighting System With Hybrid Power Generation and Storage Battery**
Xiaogeng Yang, Shiyun Du and Weijun Gao
University of Kitakyushu, Japan

Nov 11 (Thu)

9:00~12:15

D-3 Urban Renovation and Community Development

Room: 311

- D-25 Consideration on the Site of Zizou at the Zizou-bon Festival in Kyoto**
Yasushi Takeuchi¹, Kiwamu Yanagisawa², Shigenori Uoya³, Yasuhisa Goto¹, Koichiro Watanabe⁴ and Takuya Matubara⁵
¹Miyagi University, ²Q-Architecture, ³Shigenori Uoya Architects and Associates, ⁴The University of Shiga Prefecture and ⁵OPT Inc., Japan
- D-26 Design Factors and Elements on the Placemaking Concepts A Case Study of Bryant Park**
Nana Mitomo and Kazuyoshi Watari
University of Tsukuba, Japan
- D-27 Survived postwar modernism in Hong Kong new-towns: Thoughts on streetless urban form**
Ryo Fujimori
The University of Hong Kong, Hong Kong
- D-28 A Study on Open Spaces in a Sapporo Neighborhood**
Amir Shojai and Suguru Mori
Hokkaido University, Japan
- D-29 Research of User Consciousness on Underground Public Pedestrian Facility**
Gahng Ju Lee¹ and Hong C. Rhim²
¹Changwon National University and ²Yonsei University, Korea
- D-30 Growth and Cooperation of the Community Development in Amagasaki city**
Kenta Asai and Juichi Yamazaki
Kobe University, Japan
- D-31 Potentiality of Component Method for Single-Family Residential Communities by Environmental Design Viewpoint**
Kazuyoshi Watari
University of Tsukuba, Japan
- D-32 A Study on Streetscape Control through a Creation of Soft Interface Space**
-Focused on an analysis of Song-do Canal City on the basis of Gordon Cullen's Townscape theory-
Deok Ki Hong¹, Se Pyo Hong² and Young Min Koo¹
¹Inha University and ²Inha Technical Collage, Korea
- D-33 A Study on Townscape Characteristics of High School Facilities in France and Influential Factors**
Dae-Bong Yeom
University of Chosun, Korea
- D-34 Revitalization for Making Diversity of New Town with Resident's Management**
Hirofumi Matsumura¹ and Tsuyoshi Setoguchi²
¹Northern Regional Building Research Institute, Local Independent Administrative Agency Hokkaido Research Organization and ²Hokkaido University, Japan
- D-35 Study on the potential of the workshop for the workers in the housing company**
Naoko Kuriyama¹ and Hisako Koura²
¹Kobe University and ²Osaka University, Japan

Nov 11 (Thu)

9:00~12:15

D-4 Urban Renovation and Community Development

Room: 312

- D-36 Considerations on Distribution of House Types of Licheng District in the city of Quanzhou, Fujian**
Chong Zhao and Shuji Funo
University of Shiga Prefecture, Japan
- D-37 New Communication Infrastructures Promoting New Criteria for City Imaging**
Kaveh Fattahi, Hidetsugu Kobayashi, Yukihiro Kado and Takeo Ozawa
Hokkaido University, Japan
- D-38 Modeling Health-determining Factors of Housing and Community in the City of Kitakyushu**
Kazue Oshige¹, Shintaro Ando¹, Yasuyuki Shiraishi¹, Toshiharu Ikaga² and Tanji Hoshi³
¹University of Kitakyushu, ²Keio University and ³Tokyo Metropolitan University, Japan

- D-39 Study of Entropy as a background of complexity in the visual composition of daytime streetscapes in Algeria and Japan**
Ahmed Mansouri and Naoji Matsumoto
Nagoya Institute of Technology, Japan
- D-40 The Preponderance of Public Space for the Improvement of Resilience Capabilities to Natural Disasters, in traditional neighbourhoods in Japan**
Maria Rita de Jesus Dionisio
University of Tokyo, Japan
- D-41 A consideration on the usability of regional transportation system toward formation of compact cities**
Kiyoshi Shinriki¹, Harumichi Yuasa², Hiroatsu Fukuda¹ and Yupeng Wang¹
¹ *University of Kitakyushu and* ² *Kyushu International University, Japan*
- D-42 A Study on the effectiveness and utility of safety map in creating safe elementary school environment**
Mi-ran Kim¹ and Kyung-hoon Lee^{1,2}
¹ *Korea University and* ² *Korea CPTED Association, Korea*
- D-43 On Karatsu International Architectural and Urban design Workshop 2010**
Koichiro Aitani¹, Masami Kobayashi², Atsushi Deguchi¹, Takashi Ariga³, Peter Bosselmann⁴ and Stefan Pellegrini⁵
¹ *Kyushu University,* ² *Meiji University,* ³ *Waseda University, Japan,* ⁴ *University of California and* ⁵ *Principal of Opticos, USA*
- D-44 A desirable philosophy of the project manager for Urban Planning**
Toshinobu Obata
Honda Motor Co., Ltd., Japan

Nov 11 (Thu)

9:00~12:15

E-1 Structural Engineering, Disaster Prevention(Mitigation) and Risk Management

Room: 21CD

- E-01 Integrating Construction Operation and Schedule Simulation Models**
Sang Hwa Choi, Dong Pil Shin and Dong Eun Lee
Kyungpook National University, Korea
- E-02 Developing Advanced Stochastic Schedule Simulation System (AS4)**
Jae-Hoon Hwang¹, Sang-Eun Jeon¹, Doo-Jin Lee² and Dong-Eun Lee¹
¹ *Kyungpook National University and* ² *Construction Technology and Policy Institute, Korea*
- E-03 Performance Indicators for Safety Management Information system**
Jun Chul Maing, Taehoon Kim, Hunhee Cho and Kyung-in Kang
Korea University, Korea
- E-04 Establishment of the Demolition Experts Promotion Plan in Korea**
Gee Joo Ha¹, Jae Hoon Ha¹, Dong Ryul Yi² and Shin Jo Eom¹
¹ *Kyungil University and* ² *Construction Technology & Policy Institute, Korea*
- E-05 A Zero-Cost Material Contract Model using Collar Option**
Sang Hyo Lee, Jung Lo Park, Ju Hyung Kim and Jae Jun Kim
Hanyang University, Korea
- E-06 A Feasibility Analysis of Integrated Project Delivery by MAUT-AHP in Public Construction Projects**
Jae-Seob Lee and Woo-Ram Kim
Dongguk University, Korea
- E-07 Quality-Cost Optimization System using Quality Function Deployment**
Tae Kyung Lim¹, Chang Baek Son² and Dong Eun Lee¹
¹ *Kyungpook National University and* ² *Semyung University, Korea*
- E-08 A Method of Assigning Weights for Qualitative Variables in CBR Cost Model**
Sooyoung Kim, Hyun-Soo Lee, Moonseo Park and Sae-Hyun Ji
Seoul National University, Korea
- E-09 A System Framework of Enhancing Building Construction Education Using Web Multimedia and BIM Technology**
Jaehun Yang, Doyeop Lee, Chidon Oh and Chansik Park
Chung-Ang University, Korea
- E-10 Cost Estimation for Buildings using Parameter Impact**
Joseph Ahn, Hyun-Soo Lee, Moonseo Park and Sae-Hyun Ji
Seoul National University, Korea

Nov 11 (Thu)**9:00~12:15****E-2 Structural Engineering, Disaster Prevention(Mitigation) and Risk Management****Room: 21AB**

- E-11 A Study on the Flexural Capacity of Deteriorated Circular Section Wood Reinforced with Synthetic Resins**
Sung-Moo Park and Jong-Kyun Lee
Yeungnam University, Korea
- E-12 A Study on Structural Strengthen of Traditional Wooden Structure Hip Rafter**
Jae-Hwan Kim¹, Chun-Geol Park¹, Kum-Hwan Moon¹, Yong-Seok Shin¹, Cheol-Hee Cho² and Jeong-Sup Kim¹
¹ *University of Chosun* and ² *Korea Institute of Structure Safety, Korea*
- E-13 Behavior of Hexagonal Block Masonry Walls under Cyclic Loading**
Kugkwon Chang and Daewon Seo
Seoul National University of Technology, Korea
- E-14 Field Investigation of Non-Engineered Masonry Houses in Kathmandu Valley**
Shiro Watanabe¹, Daichi Higashi¹, Ayako Maeshima¹, Jishun Subedi², Kaori Fujita¹ and Toshikazu Hanazato³
¹ *University of Tokyo, Japan*, ² *Tribhuvan University, Nepal* and ³ *Mie University, Japan*
- E-15 New Retrofitting System for the Improvement of Seismic Performance of Reinforced Concrete Beam-Column Joints using CFRP Embedded Bar**
GeeJoo Ha¹, JongHak Shin¹, DongRyul Yi², ChangGeun Cho³ and HyunWook Kang¹
¹ *Kyungil University of Gyeongsan*, ² *Construction Technology & Policy Institute* and ³ *Chosun University, Korea*
- E-16 A Study on the Strengthening Effect of Reinforced Concrete T-shaped Beams**
Hyung-Ju Moon¹, Yong-Seok Shin¹, Myung-Hwan Yoo¹, Chang-Hyun Lee¹, Cheol-Hee Cho² and Jeong-Sup Kim¹
¹ *University of Chosun* and ² *Korea Institute of Structure Safety, Korea*
- E-17 Shear Reinforcement with Spiral type steel bars for Flat plate-column Connection**
Joo-Hong Chung¹, Hyun-Ki Choi¹, Seoung-Yong Kim¹, Seung-Il Lyu² and Chang-Sik Choi¹
¹ *Hanyang University* and ² *OCTAGON Engineering Co., Ltd., Korea*
- E-18 Punching Shear Reinforcement of Foundation on the Ground**
Won-Jik Yang¹, Yong-Jae Lee², Jin-Young Park¹, Seok Hwangbo³ and Waon-Ho Yi¹
¹ *Kwangwoon University*, ² *Dongyang Mirae University* and ³ *ES & Partners Structural Engineering, Korea*

Nov 11 (Thu)**9:00~12:15****E-3 Structural Engineering, Disaster Prevention(Mitigation) and Risk Management****Room: 22**

- E-19 Evaluation of Progressive Collapse Resistance of a RC Flat Plate Super Tall Building for Sustainable Super Tall Building**
Hae-Jin Kim¹, Dae-Won Seo², Byum-Seok Han³ and Sung Woo Shin¹
¹ *Hanyang University of Seoul*, ² *Seoul National University of Technology of Seoul* and ³ *Dongbu Corporation of Seoul, Korea*
- E-20 Dynamic Effect in Hybrid Structure under Different Seismic Intensity**
Wei Li, Akihiko Kawano and Hiroyuki Nakahara
Kyushu University, Japan
- E-21 Seismic Damage and Finite Element Analysis of Stair Structures in Buildings**
Guanglin Yuan¹, Jianping Wang¹, Jingwei Zhang¹, Chuanjun Man², Guangyun Yu¹ and Dongquan Wang¹
¹ *China University of Mining and Technology* and ² *Xuzhou Institute of Architectural Technology, China*
- E-22 Earthquake response analysis of high-rise building with Long-period Earthquake wave**
Jeong-hyun Jang, Woo-jung Jung and Jae-hyoun Choi
University of Chosun, Korea
- E-23 Strain rate effects on collapse behavior of welded steel moment frames**
Kyungkoo Lee, Lan Chung, Seonwoong Kim, Jieun Rho and Byoungjeon Kim
Dankook University, Korea
- E-24 Performance Evaluation on Load Carrying Capacity of High-Rise Steel Structure with Belt Truss**
Jung-Hwan Kim, Si Jeong Jeong and Jae-Hyoun Choi
University of Chosun, Korea
- E-25 A System of Shape Recognition For Reinforcement Bars with Cloud Points**
Kosei Ishida¹, Naruo Kano¹, Kenji Kimoto² and Takeshi Igarashi¹
¹ *Waseda University* and ² *Shibaura Institute of Technology, Japan*
- E-26 Seismic Retrofit of Concrete Columns using Steel or FRP Jackets by Displacement-Based Design Approach**
Sung-Jin Han¹, Chang-Geun Cho¹ and Wha-Jung Kim²
¹ *Chosun University* and ² *Kyungpook National University, Korea*
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- E-27 Nonlinear Mixed Formulation of Beam-Column Finite Element for FRP Concrete Columns**
Chang-Hwan Park, Chang-Geun Cho and Eui-Sik Kim
Chosun University, Korea
- E-28 3-D Finite Element Prediction of Bending Strength of Reinforced Concrete Beam-Column Members**
Hyeon-Jin Lim¹, Chang-Geun Cho¹, Hisato Hotta² and Katsuki Takiguchi²
¹Chosun University, Korea and ²Tokyo Institute of Technology, Japan
- E-29 A Study on the Shear Performance of R/C Beam using High Ductile Fiber-Reinforced Mortar with Ground Granulated Blast Furnace Slag**
GeeJoo Ha¹, JeongSu Kim², KunHo Hong¹, DongGun Lee¹ and YoungJoo Ha³
¹Kyungil University, ²Research Institute of Technology, Hanwha Engineering & Construction of Deajeon and ³Construction Techonogy & Policy institute of Deagu, Korea

Nov 11 (Thu)

13:30~16:45

A-4 Architectural Planning and Design

Room: 312

- A-34 Architecture with Landscape Methods Case Study of the Rolex Learning Centre Lausanne by SANAA Tokyo**
Daniel Jauslin
Delft University of Technology, The Netherlands
- A-35 Thomas James Waters: his employment and British merchants at Japanese mint, Osaka**
Susumu Mizuta
Hiroshima University, Japan
- A-36 The Circularly Upstep of Aesthetic Form and Contemporary Architecture Art of Scientific Pursuit**
Mengliang Shi and Qiang Chen
Hunan City University, China
- A-37 Design Laws of Human Settlements Experience Based on Chinese Philosophical Values**
Peng Xia
Huazhong University of Science and Technology, China
- A-38 A Study on the Tectonics of Mies van der Rohe**
Ransoo Kim
Myongji University, Korea
- A-39 Japan as a Pritzker Powerhouse: An Argument for its Advantage**
Dana Buntrock
University of California, Berkeley, USA
- A-40 Design new interface of research space for fusion technology with versatile plan; KI (KAIST INSTITUTE) BUILDING**
Taijip Kim and Taesung Kim
Gansam Architects & Partners, Korea
- A-41 New Dutch Architectural Phenomena around 1990s**
Eui-Young Chun
Kyonggi University, Korea
- A-42 A Study on the Color Trend in Contemporary Architecture**
Suvd Zandanragchaa and Jin-Sook Lee
Chungnam National University, Korea
- A-43 A study on the Mental Imagery of space-time through Proust phenomenon in the Peter Zumthor's architecture**
Dae Myoung Kang and Young Min Koo
Inha University, Korea
- A-44 A study of duality in the architecture of Hassan Fathy (1900-1989)**
Wei Zhang
Xiamen University, China
- A-45 A Study on Immateriality and Non-image Represented in Jean Nouvell's Architecture of 'Aesthetics of Vanishment'**
Yuna So and Young Min Koo
Inha University, Korea

Nov 11 (Thu)

13:30~16:45

A-5 Architectural Planning and Design

Room: 313

- A-46 The comparative spatial analysis of space planning system in Premium Outlets**
Seyoung Lee
Seoul National University, Korea

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- A-47 An Evaluation on the Vitalization in Shopping Complexes Using Space Syntax**
Eun Mi Kong¹, Young Ook Kim¹ and Hyo Young Bang²
¹University of Sejong and ²Junglim Architecture, Korea
- A-48 Classification analysis of station-square and outside-latch concourse in Japan urban railway-station based on psychological quantities**
Ho Van Ngoc, Hiroki Suzuki and Kuryu Akira
Chiba University, Japan
- A-49 Application of Dependency Structure Matrix for Constructability in Design Phase**
Youngjib Ham, Hyun-Soo Lee and Moonseo Park
Seoul National University, Korea
- A-50 An Investigation on the Space as a Gap acquired through Unfamiliarity against the Everydayness in the City**
Jihyun Kim and Youngmin Koo
Inha University, Korea
- A-51 Investigation on Spatial Intelligibility and Spatial Cognition for Retail Facility Vitalization.**
Seon Young Min¹, Young Ook Kim¹ and Chan Ju Kim²
¹Sejong University and ²Daelim University College, Korea
- A-52 A Layout Planning Optimization Model for Finishing Work**
Moonseo Park¹, Youngjun Yang¹, Hyun-soo Lee¹, Sang-won Han² and Sae-hyun Ji¹
¹Seoul National University, Korea and ²The University of New South Wales, Australia
- A-53 A Study on the Analysis of City Image using Multi-Dimensional Scaling**
Han-Na Kim, Ji-Seon Ryu and Jin-Sook Lee
ChungNam National University, Korea
- A-54 Space for Representation and the 24th Seoul Olympic Game**
Jung-In Kim
Soongsil University, Korea
- A-75 Representation for practical design in Architecture using Mathematics Expression**
Seung Yeul Ji and Han Jong Jun
Hanyang University, Korea

Nov 11 (Thu)

13:30~16:45

A-6 Architectural Planning and Design

Room: 314

- A-55 A study on the significant difference verifying of the lighting environment evaluation depending on the actual space and the monitor**
Ji-Young Park, Tae-Hyun Ha and Jin-Sook Lee
Chungnam National University, Korea
- A-56 A Study on Variation of HVAC Load and System Cost in Buildings using Double Facade System**
Jung-Ho Kim¹, Young-hak Song¹, Hye-Mi Shin¹, Gi-Nam Kang², Jin-Hak Shin³ and Keon-Ho Lee¹
¹KICT, ²Sungkyunkwan University and ³SAMSUNG C&T, Korea
- A-57 Study on Lighting Energy Saving Technology for Apartment House using Green IT**
Hyeyeong Ahn, Giljae Ahn and Yongseong Kim
Kookmin University, Korea
- A-58 A Study on the Effects of Alternative Building Forms considering Microclimate and Outdoor Thermal Comfort in a High Density Tropical City**
Nobuo Mishima¹ and Anisha Noori Kakon^{1,2}
¹Saga University, Japan and ²Jahangirnagar University, Bangladesh
- A-59 Research on High-rise Housings HVAC Energy Reducing using IT Technology**
Eunhye Lee, Gilzea Ahn and Yongseong Kim
Kookmin University, Korea
- A-60 The Low-carbon Mode of Container Buildings**
Wei Wang, Miao Lin, Wei Chunyu and Shengcong Zhang
Hunan University School of Architecture, China
- A-61 Cost Analysis of the Work Crew Combination for the Cement Liquid Waterproofing in Apartment House**
Geejoo Ha¹, Minkwon Choi², Shinjo Eom¹, Minsu Ha¹ and Jinhwan Kim¹
¹Kyungil University and ²Keimyung University, Korea
- A-62 Standardization of Construction Materials and Equipments in Plumbing and Drainage Facilities**
Chung-Sik Cho and Sung Ok Lee
Korea Institute of Construction Technology, Korea
-

- A-63 A Study on Property of Exposed Duplex Waterproofing Layer used Net PE Fabric and High Viscosity Thixotropy Urethane**
Je-Young Song¹, Kyu-Sung Kwak¹, Young-Suk Kim² and Sang-Keum Oh³
¹BK Institute of Waterproofing Technology, ²Teknix D&C Co., LTD and ³Seoul National University of Technology, Korea
- A-64 The optimum design of truss dome structures based on evolution strategy**
Sangeul Han, Manjung Kim and Minkyu Ryu
Inha University, Korea

Nov 11 (Thu)

13:30~16:45

A-7 Architectural Planning and Design

Room: 315

- A-65 A study on color planning for student residence based on Korean traditional color**
Min-kyeong Shim and Hyun-su Lee
Yonsei University, Korea
- A-66 Living Afloat: Alternative Lifestyle for the Citizens in Waterfront Cities**
Shao-Ming Lu
Shanghai Jiao Tong University, China
- A-67 Case Studies on Housing for Single People in Hong Kong -Research on the common space of housing for single people**
Angelica Hui
Waseda University, Japan
- A-68 Typing Theory in Post War Japanese Architecture Planning-Lessons for the Iraqi Post War Situation**
Tara Abdulrazak and Suguru Mori
Hokkaido University, Japan
- A-69 Study on the Image of Brand Apartment Building And Characteristic of its Exterior Color**
Ji-hye Kim, Cho-rong Park and Jin-sook Lee
Chungnam National University, Korea
- A-70 Space-Form Analysis of Rokko Housing I**
Ivan S F Ip
City University of Hong Kong, Hong Kong
- A-71 The status and characteristic of amended Housing Performance Grading Indication System**
Sung Ok Lee¹, Soo Am Kim², Sang-Ho Lee¹ and Yan Hong¹
¹Yonsei University and ²Korea Institute of Construction Technology, Korea
- A-72 A Research on Mid-rise Apartment Development of Low-Cost Open Housing using Staggered Wall System**
Shunmei Piao and Chaeshin Yoon
Ewha Woman's University, Korea
- A-73 A Study on Element Technology Performance Item Index Establishment for Apartment House Remodeling Project**
SungWook Kim, JungKyu Seo, Won Kwon, JeaSauk Lee and JaeYoul Chun
DanKook University, Korea
- A-74 Use sphere comparison of regional nucleus facility and area close homes for old people's day service**
Sachiko Mishima, Mahito Nakazono and Sachiko Yamamoto
University of Yamaguchi, Japan

Nov 11 (Thu)

13:30~16:45

B-3 Conservation and Revitalization of Historical Resources

Room: 22

- B-22 Preserving Macao Industrial Heritage for a Sustainable Urban Future**
Rong Zhu¹, Yao Wu¹, Francisco Vizeu Pinheiro², Steven Zhao Zhao³ and Sally Chio⁴
¹Jiangnan University, China, ²University of Saint Joseph, ³Institute for Tourism Studies and ⁴Macao's Municipal Affairs Bureau, Macao
- B-23 Reconstruction of the Destructively Developed Traditional Blocks**
Mingxiao Qu and Tiejun Zhou
Chongqing University, China
- B-24 Conservation of Modern Architecture in Korea : recent projects and improvement points of its process**
Soungwon Kang¹ and Gyeom Her²
¹National Research Institute for Cultural Properties, Tokyo and ²Tokyo University of the Arts, Japan
- B-25 Presevation and Restoration of the International House of Japan**
Masami Kobayashi
Meiji University, Japan

B-26 An Attitude Survey on Architecture Observation Programs to the Public

Tadashi Saito
Keio University, Japan

B-27 Study on the building equipment education in modern Japan

Noriko Ito, Yukimasa Yamada and Noriyoshi Ichikawa
Tokyo Metropolitan University, Japan

Nov 11 (Thu)**13:30~16:45****B-4 Conservation and Revitalization of Historical Resources****Room: 32****B-28 Order not to be Forgotten: Building the British Concession on Shamian, Guangzhou (1861-1945)**

Yu Chen
National University of Singapore, Singapore

B-29 A study on the land readjustment project in Yeongdeungpo area in 1930's

Hana Kim and Bong-Hee Jeon
Seoul National University, Korea

B-30 Leisure and Space in Modern city, Kyungseong: Leisure Space of 1930s' Jongro Dstreet

Yeonkyung Lee and Sungwoo Kim
Yonsei University, Korea

B-31 A Study on the B.A.V.H as the French Research Data Concerning the Imperial City, Hue, and its Significance in Architectural History

Mina Park¹ and Kyungdon Jin²
¹ University of Tokyo, Japan and ² Packche Institute of the Arts, Korea

B-32 A Study on Spacial Transformation of Hue Traditional Garden Houses in the Citadel Area, Vietnam

Ngoc Tung Nguyen¹, Hirohide Kobayashi¹, Nawit Ongsawangchai² and Masami Kobayashi¹
¹ Kyoto University, Japan and ² Chiang Mai University, Thailand

B-33 Study on Typology and Transformation of Bahay na Bato Housing in Vigan, Philippines

Toshifumi Iida, Juan Ramon Jimenez Verdejo and Shuji Funo
University of Shiga Prefecture, Japan

B-34 Considerations on the Spanish Colonial Houses in La Havana city, Cuba

Kentaro Wakamatsu and Juan Ramon Jimenez Verdejo
University of Shiga Prefecture, Japan

B-35 A Review on Historiography of Modern Urban History: Reconsideration of World Perspective from a Viewpoint of Colonial City Studies

Kyota Yamada
Kyoto University, Japan

B-36 A Study on the historical development of public housing in Mumbai, India

Takashi Ikejiri¹ and Kyota Yamada²
¹ Chiba University and ² Kyoto University, Japan

B-37 Asian Influence on Architecture and Conservation of African Heritage Stone Town of Zanzibar

Khalfan Amour Khalfan and Nobuyuki Ogura
University of the Ryukyus, Japan

B-38 Spatial Formation of the Port Cities of Kutch Region, India

Tomoaki Okamura¹, Shu Yamane² and Naoko Fukami³
¹ National Research Institute for Cultural Properties, ² The University of Shiga Prefecture and ³ Waseda University, Japan

B-39 Spatial Formation of the Port Cities of Calicut, India

Shu Yamane¹, Keiichi Nakajima¹ and Naoko Fukami²
¹ University of Shiga Prefecture and ² Waseda University, Japan

Nov 11 (Thu)**13:30~16:45****B-5 Conservation and Revitalization of Historical Resources****Room: 33****B-40 Heritage Values of Disaster-affected Cultural Properties in Japan and Korea**

Minsuk Kim
Ritsumeikan University, Japan

B-41 A Study on the issue of UNESCO World Cultural Heritage management in Japan and Korea

Rieko Kubota and Minsuk Kim
Ritsumeikan University, Japan

- B-42 A Study of Evolution and Development Characteristics of cities in the Three Gorges Reservoir Area**
Xiaofang Wei and Wanmin Zhao
Chongqing University, China
- B-43 Evaluation of Fire Spreading Potential around Cultural Property Buildings**
- A Case Study of Historical City Kyoto -
Kaoru Matsumiya and Kiyooki Oikawa
Ritsumeikan University, Japan
- B-44 Damage Assessment and Reconstruction Guidelines for Padang's Built Heritage**
Yumi Isabelle Akieda¹, Shin'ichi Shimizu¹, Masakazu Takeuchi², Shuji Funo³, Yasushi Takeuchi⁴ and Akiko Tashiro¹
¹National Research Institute for Cultural Properties Tokyo, ²Govenment of Japan, ³The University of Shiga Prefecture and ⁴Miyagi University, Japan
- B-45 Urban Conservation based on the International Cooperation**
- A case study of the Qanawat south area, Damascus -
Kosuke Matsubara
University of Tsukuba, Japan
- B-46 BIM based Construction Management for Architectural Cultural properties**
Jaehyun Park¹, Hyun-Sang Choi², Su-Won Yoon¹ and Cheolho Choi¹
¹Doalltech Co., Ltd. and ²Yonsei University, Korea
- B-47 Historical analysis and current status study on Chinese construction engineering qualifications**
Huirong Zhang
Beijing University of Technology, China and Kyoto University, Japan

Nov 11 (Thu)

13:30~16:45

E-4 Structural Engineering, Disaster Prevention(Mitigation) and Risk Management

Room: 21CD

- E-30 Estimation of Compressive Strength of Concrete Exposed to Fire**
Qingtao Li and Zhuguo Li
Yamaguchi University, Japan
- E-31 Structural Capacity of Shear-Dominant Reinforced Concrete Beam Damaged by High Temperature Load**
Soo-Yeon Seo¹, Ki-Bong Choi² and Seung-Joe Yoon¹
¹Chungju National University and ²Kyeongwon University, Korea
- E-32 A Study on the Thermal Properties of CFT Columns through Unstressed Heating Test and Analysis**
SunHee Kim¹, SangKeun Jung¹, YoungAhn Won² and SungMo Choi¹
¹University of Seoul and ²Ministry of National Defense, Korea
- E-33 A Study on the Evaluaiton of Durability of Lightweight Aggregate Concrete**
Seung Yup Roh¹, Nam Yong Jee¹, Yong Jeong² and Jae Kyung Shin²
¹University of Hanyang and ²Sampyo Co., Korea
- E-34 A Study on the Estimation of Concrete Strength by Using Microwave**
JongSeok Lee¹, YoungDo Lee², NamGi Lim³, MinSu Paik¹, JungSoo Ha¹ and SangJin Jung¹
¹Dankook University, ²Kyungdong University and ³Tongmyong University, Korea
- E-35 Wireless Structural Health Monitoring of Buildings and Civil Infra-structures based on Vibrating Wire Strain Gauge**
Se Woon Choi¹, Hong Min Lee¹, Jun Hwi Kim², Kangwon Lee² and Hyo Seon Park¹
¹Yonsei University and ²Korea Gas Corporation, Korea
- E-36 Analysis of Escape Route of Liziba Light Rail Station in Chongqing**
Qin Yan and Tie-jun Zhou
University of Chongqing, China
- E-37 Preliminary study on the Development Strategy of Technologies for Human-induced Disaster**
Goune Kang, Taehoon Kim, Hunhee Cho and Kyung-in Kang
Korea University, Korea
- C-24 Properties of Blended Sodium Based Alkali-Activated Ground Granulated Blast-Furnace Slag**
Byeong-Jo Kim¹, Geon-Woo Kim¹, Jin-Kyu Song¹ and Keun-Hyeok Yang²
¹Chonnam National University and ²Kyonggi University, Korea
- C-25 Prediction of Compressive Strength of Sodium Hydroxide Based Alkali-Activated Ground Granulated Blast Furnace Slag Mortar**
Geon-Woo Kim¹, Byeong-Jo Kim¹, Jin-Kyu Song¹ and Keun-Hyeok Yang²
¹Chonnam National University and ²Kyonggi University, Korea

Nov 11 (Thu)**13:30~16:45****E-5 Structural Engineering, Disaster Prevention(Mitigation) and Risk Management****Room: 21AB**

- E-38 Evaluation on Slip Coefficient Subjected to Surface Treatments of High Strength Bolted Connection**
Hwan-Seon Nah, Hyeon-Ju Lee and Kang-Seok Kim
Korea Electric Power Corporation Research Institute, Korea
- E-39 An Experimental Study on Flexural Strength of H-shaped beams strengthened by AFRP**
Kangseok Kim¹, Hwanseon Nah¹, Kangseok Kim¹, Hyeonju Lee¹ and Kangmin Lee²
¹ *Research Institute of Korea Electric Power CO. and* ² *Chungnam National University, Korea*
- E-40 Experimental Study on Structural Characteristic of Shear-type Friction Damper with Variable Resistances**
Ji-Hoon Hwang¹, Eun-Soo Park¹, Jin-Woo Kim², Pengbo Zhang³ and Jae-Hyoun Choi¹
¹ *University of Chosun, Korea,* ² *Kobe University, Japan and* ³ *Southwest Jiaotong University, China*
- E-41 An Experimental Study on the Characteristics of Internal Pressure of Pipeline in High Pressure Pumping**
Sang Heon Kim¹, Suk Won Ji² and Chee Ho Seo¹
¹ *Konkuk University and* ² *Induk University, Korea*
- E-42 An experimental study on the structural characteristics of concrete filled steel square-tube stub column with steel fiber reinforced high strength concrete.**
Hyung-Suk Jung¹, Nak-Hun Kim¹, Hyun-Ki Choi¹, Tae-Hyu Ha² and Chang-Sik Choi¹
¹ *Hanyang University and* ² *Steel Structure Research Laboratory, RIST, Korea*
- E-43 An experimental study on high strength square concrete-filled steel tube stub columns with high-strength concrete**
Nak-Hoon Kim¹, Hyung-Suk Jung¹, Hyun-Ki Choi¹, Jin-Ho Kim² and Chang-Sik Choi¹
¹ *Hanyang University and* ² *Research Institute of Industrial Science & Technology, Korea*
- E-44 Estimation of Rotation Capacities of RBS-B Connections**
Ki-Hoon Moon, Young Seo Ah and Sang Whan Han
Hanyang University, Korea
- E-45 Nonlinear Analysis for Design Method of Continuous Connections in PC System**
Jeong-Ho Moon¹, Jae-Hyung Lim², Young-Hun Oh³ and Ju-Hyeuk Im⁴
¹ *Hannam University,* ² *Woosong College,* ³ *Konyang University and* ⁴ *Samsung C & T Cooperation, Korea*
- E-46 Development and Structural Performance of MRS Continuous Joints**
Young-Hun Oh¹, Jeong-Ho Moon², Jae-Hyung Lim³ and Ju-Hyeuk Im⁴
¹ *Konyang University,* ² *Hannam University,* ³ *Woosong College and* ⁴ *Samsung C & T Cooperation, Korea*
- E-47 Application of Post-tensioned Steel Composite Beam for Long-span Structures**
Jung-Woo Park, Young-Kuk Kim and Kwang-Ryang Chung
DongYang Structural Engineers Co., Ltd., Korea
- E-48 Study on the Behavior of Steel-Concrete Composite Beams Strengthened by Unbonded Post Tension Method**
Soo Hyun Ryu
Sahm Yook University, Korea

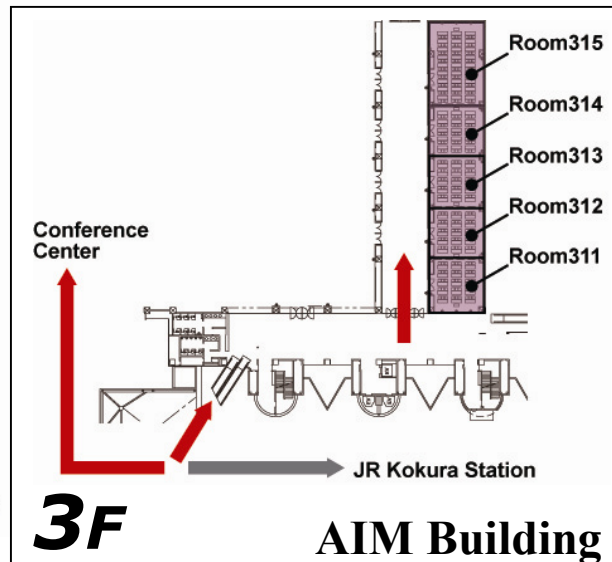
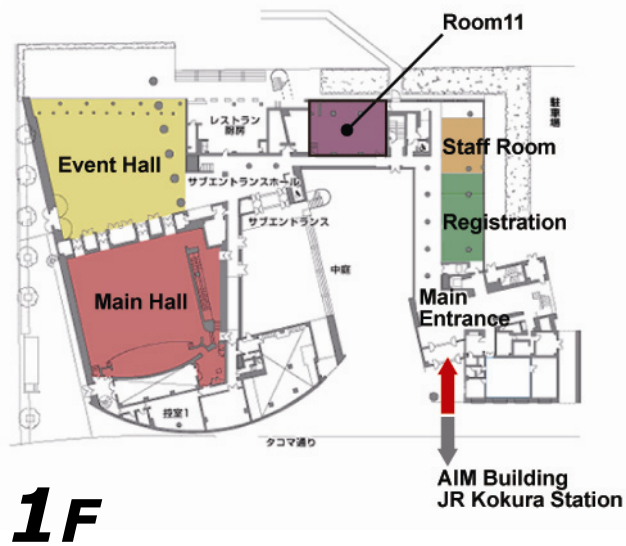
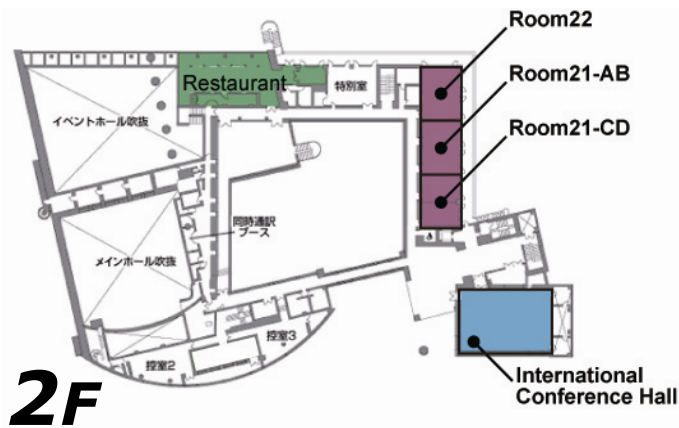
Nov 11 (Thu)**13:30~16:45****P-1 Proposal Session****International Conference Room**

- P-02 Construction of a Bamboo House**
Naokata Okajima
Minami Kyushu University, Japan
- P-03 A study on the Form of Tall Building Applied with a Diagrid System**
Jong Wook Kwon¹, Sang Min Park¹ and Chul Moon Yang²
¹ *Yeungnam University and* ² *SAMOO, Korea*
- P-05 Padang's Built Heritage between Reconstruction Guidelines and Reatoration**
Yumi Isabelle Akieda¹, Shin'ichi Shimizu¹, Masakazu Takeuchi², Shuji Funo³, Yasushi Takeuchi⁴ and Akiko Tashiro¹
¹ *National Research Institute for Cultural Properties Tokyo,* ² *Agency for Cultural Affairs, Govenment of Japan,* ³ *The University of Shiga Prefecture and* ⁴ *Miyagi University, Japan*
- P-06 Reconnecting to the Origin**
Tomoaki Tanaka¹ and Hiroki Matsushige²
¹ *Meiji University, Japan and* ² *University of East London, U.K.*
- P-07 Urban Renobation of the Osaka gentleman clothes modernization union**
Hikari Tsushima
Kinki University, Japan

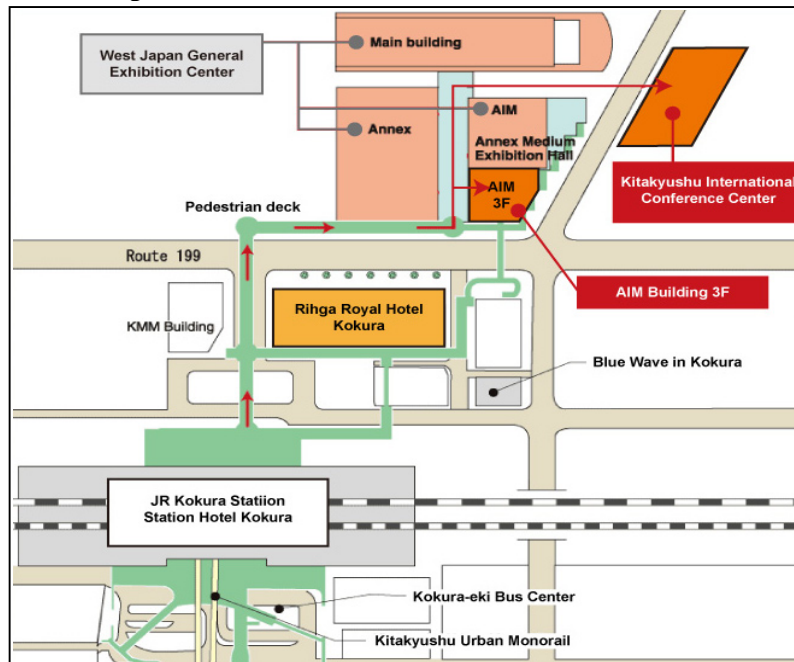
- P-09 Urban Environmental Climate Maps for Planning and Design: Trials in Yokohama**
 Takahiro Tanaka¹, Satoru Sadohara² and Shusuke Inachi³
¹ Hiroshima University, ² Yokohama National University and ³ Keikaku Koubou INACHI Limited Partnership Company, Japan
- P-11 Inscribing Memory of Disasters in Scenery**
 Hideyuki Kobayashi
 National Institute for Land and Infrastructure Management, Japan
- P-12 Push-out Test of Mechanical Shear Connector using Powder Actuated Nails**
 Manjae Lee¹, Yasuhisa Tagawa² and Go Kobayashi³
¹ Sendai National College of Technology, ² Yokohama National University and ³ Hilti, Japan
- P-13 Design of Headed Steel Reinforcements with Lap-spliced**
 Yong-Taeg Lee¹, Seung-Hun Kim¹, Tae-Soo Kim¹, Sang-Koo Kim², Yong-Dae Yoon² and Yun-Cheul Choi³
¹ Hanbat National University, ² Boowon BMS Co., LTD and ³ Chungwoon University, Korea

Floor Plans

Kitakyushu International Conference Center



Area Map



Kitakyushu International Conference Center

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