ISAIA 2018
The 12th International Symposium on Architectural Interchanges in Asia

CONFLUENCE OF ARCHITECTURE

in the Age of Super Connectivity

October 23(Tue)~26(Fri), 2018
Pyeongchang Alpensia, Gangwon, Korea
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INTRODUCTION

The International Symposium on Architectural Interchanges in Asia (ISAIA) is a biennial international symposium cosponsored by the Architectural Institute of Korea (AIK) together with the Architectural Society of China (ASC) and the Architectural Institute of Japan (AIJ). The 12th ISAIA is scheduled to be held on October 23–26, 2018 in Pyeongchang, Korea and hosted by AIK. ‘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;

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<th>12th ISAIA</th>
<th>Confluence of Architecture in the Age of Super Connectivity</th>
<th>Oct. 23-26, Pyeongchang, Korea</th>
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</thead>
<tbody>
<tr>
<td>11th ISAIA</td>
<td>Resilience and Diversity - Rethinking Asian Architecture for the Next Generation</td>
<td>Sep. 20-23, 2016 Sendai, Japan</td>
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<td>10th ISAIA</td>
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<td>8th ISAIA</td>
<td>Asian View Order and Wisdom for the Future</td>
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<td>Oct. 15-17, 2008 Beijing, China</td>
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<td>Global Environment and Diversity of Asian Architecture</td>
<td>Jun. 1-4, 2004 Matsue, Japan</td>
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<td>4th ISAIA</td>
<td>Resource Architecture and Modern Technology</td>
<td>Sep. 17-19, 2002 Chongjin, China</td>
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<tr>
<td>3rd ISAIA</td>
<td>Challenges and Roles of Asian Architecture for the New Millennium</td>
<td>Feb. 23-25, 2000 Jeju, Korea</td>
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<td>2nd ISAIA</td>
<td>Asian Architecture in the 21st Century</td>
<td>Sep. 8-10, 1998 Kobe, Japan</td>
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<td>1st ISAIA</td>
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<td>Sep. 6-12, 1986 Fukuoka, Kyoto and Tokyo, Japan</td>
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THEME: Confluence of Architecture in the Age of Super Connectivity

Confluence is a situation in which two things join or come together. It can connect people, things, fields of study, time, and ideas in the age of super connectivity. Nothing great can be accomplished without collaborations, just as great rivers are the results from the merge of numerous small streams. Not only science and technology, but humanities and cultures are being fused in recent architectural space. Sharing knowledge, space, and even cars is becoming the creative commons for all. It is time to discuss and share new ideas crossing over various fields from the perspective of confluence in architecture.
Dear delegates and guests, I would like to extend my sincere welcome you all to the 12th International Symposium of Architectural Interchange in Asia, a unique symposium aimed to bring together architects, academics, researchers and engineers from South Korea, China, Japan, and other Asian countries in order to share the valuable results of our endeavours and aspirations. Also it is our pleasure to hold this event in Pyeongchang. As most will remember, Pyeongchang is where eight months ago millions of people visited for the 2018 Winter Olympic Games. It is also renowned for its beautiful autumn scenes. So we hope you enjoy looking around the legacy of the Winter Olympics in the back drop of autumn colours during your visit.

We are living in exciting times in which the world becomes more connected than ever before. Confluence in the age of super connectivity have made real changes in architecture, sharing new ideas and prompting collaborations over various fields. With this year’s theme of the symposium: Confluence of Architecture in the Age of Super Connectivity, we intend to stimulate discussions and share new views. Thus, there are insightful keynote speeches, eight categories of academic sessions, and two special sessions, along with inspirational presentations and the exhibition of Young Architects to celebrate fresh architectural experimentations for your participation.

I hope that this symposium will continue to serve as a platform to not only promote academic achievements and innovative architectural works, but also enhance our long-standing relationship and friendship for mutual encouragement and support in the future.

Again, on behalf of the all members of the Architectural Institute of Korea (AIK), we would like to thank you for your participation and contribution.

Welcome to the 2018 ISAIA.
Dear Lee Hyun-Soo, President of Architectural Institute of Korea, Dear Furuya Nobuaki, President of Architectural Institute of Japan, Dear guests and delegates, on behalf of the Architectural Society of China, I would like to extend warm congratulations on the 12th International Symposium on Architectural Interchanges in Asia (12th ISAIA) held in Pyeongchang, Korea.

So far, ISAIA has gone through 32 years. Over the past years, many teachers, students and practitioners in architecture field have published papers on the platform for self-presentation, academic exchange and friendship cultivation, achieving growth in career. With the joint efforts of Architectural Institute of Korea, Architectural Society of China, and Architectural Institute of Japan, ISAIA has not only grown into a bridge for academic exchange and promotion of friendship, but increasingly become a widely influential international academic conference. Organized by Architectural Institute of Korea, the symposium focuses on how to connect architecture with other industries and how to expand the breadth and depth of connection in the “Age of Super Connectivity”. Various forms of informative keynote speeches, academic sessions and special sessions will be given at the symposium, and we expect fruitful results to be achieved at the symposium.

In addition, young architects are always the focus of concern at the symposium. Young Architect’s Design Session is held at the symposium to display works and exchange ideas, express their passion for architectural design, show research results, and share working and learning experience. The forum can help young architects shoulder more professional and social responsibilities in the future. Again, I would like to extend warm welcome to all of you on behalf of the Architectural Society of China, and are sincerely grateful for your active participation and great support.
I would like to preface my address by offering my deepest condolences to all the victims of the tsunami resulting from the September 28 earthquake on the Indonesian island of Sulawesi and all other recent natural disasters. I hope and pray that normality will be restored as soon as possible.

I am delighted that the International Symposium on Architectural Interchanges in Asia (ISAIA) is being held in this historic county of Pyeongchang, surrounded by the splendors of nature. I feel a pleasant sense of familiarity with Pyeongchang as it was the venue for this year’s Winter Olympic Games. The symposium started in 1986 to mark the 100th anniversary of the Architectural Institute of Japan’s founding, and is now being held for the 12th time. Co-sponsored by the Architectural Institute of Korea (AIK), Architectural Society of China (ASC) and the Architectural Institute of Japan (AIJ), its purpose is to promote architecture and international exchange among researchers, architects and technicians in the Asian region. It also provides a precious opportunity for the presidents of each of the three institutions to meet together and hold mutual discussions on international topics.

The main theme of this symposium is the “Confluence of Architecture in the Age of Super Connectivity.” Last year witnessed world-scale natural disasters thought to be attributable to global warming. Many parts of Japan too were affected by disasters arising from typhoons, torrential rain and earthquakes, while other countries and regions in Asia suffered a similar fate. Serious human disasters are also occurring in other parts of the world due to conflict between states and religious issues.

Building a city, or maintaining it, is not just a question of architectural skills; the historic landscape and traditional culture of the area have to be respected, technologies from all sorts of fields used, and knowledge that goes beyond generations from the young to veterans shared. The wide-ranging collaboration enjoyed between our constituent members is also of great importance.

In response to these issues, this 12th symposium is sure to provide all sorts of hints from specialist fields in each participant region. It is essential that Korea, China, Japan and Indonesia (which has since the last symposium been attending as an observer), strengthen their links and share their knowledge to solve the common problems we face. I sincerely hope that the symposium will come to represent a step forward for architecture in Asia as we move into the future.

Finally, please allow me to express my greatest respect and thanks to the President of the Architectural Institute of Korea (AIK), Mr. Lee Hyun-soo, the Organizing Committee and the Secretariat for all their efforts in preparing for this symposium. I must also thank the speakers and those who have contributed papers for all their hard work, and close by wishing the symposium every success.
## ORGANIZATION

### Organizing Committee

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<tr>
<th>Chairman</th>
<th>• Hyun-Soo Lee (President, AIK)</th>
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<tr>
<td>Vice Chairman</td>
<td>• Kyung-Hoon Lee (Vice President, AIK)</td>
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<td>Members</td>
<td>• Long Xiu (President, ASC)</td>
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<td>• Jishou Zhong (Secretary General, ASC)</td>
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<td>• Nobuaki Furuya (President, AIJ)</td>
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<td>• Takeuchi Toru (Vice President, AIJ)</td>
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### Local Organizing Committee

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<tr>
<th>Chairman</th>
<th>• Eui-Young Chun (Kyonggi University / Vice President, AIK)</th>
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<td>Members</td>
<td>• Chang-Sik Choi (Hanyang University / Vice President, AIK)</td>
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<td>• Kil-Hee Kim (Kongju National University)</td>
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<td>• Jun-Seok Park (Hanyang University)</td>
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<td>• Sung-Chul Bae (Hanyang University)</td>
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<td>• Dong-Hee Oh (Gansam Architects)</td>
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<td>• Sang-Hoon Oh (Busan National University)</td>
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<td>• Kwn-Jin Lee (Incheon National University)</td>
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<td>• Jung-Yoon Lee (Sungkyunkwan University)</td>
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<td>• Haewook Lee (Seoul Archi-Research Ins.)</td>
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<td>• Uoo-Sang Yoo (Chonnam National University)</td>
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<td>• Hyun-Do Yun (Chungnam National University)</td>
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<td>• Dae-Han Jun (Dongseo University)</td>
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<td>• Jae-Yong Chung (Hongik University)</td>
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<td>• Hee-Sung Cha (Ajou University)</td>
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<td>• Dong-Soo Han (Hanyang University)</td>
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<td>• Ji-Hounge Han (Ajou University)</td>
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<td>• Jae-Hyouk Choi (Chosun University)</td>
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# PROGRAM AT A GLANCE

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<tr>
<th>OCT 23 (Tue)</th>
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<td>08:00–10:00</td>
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<td>10:00–10:30</td>
<td>Opening Ceremony</td>
<td>10:00–10:40</td>
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<tr>
<td>10:30–11:10</td>
<td>Keynote Speech 1</td>
<td>10:40–11:20</td>
<td>Keynote Speech 4</td>
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<td>11:10–11:50</td>
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<td>11:20–12:00</td>
<td>Keynote Speech 5</td>
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<td>12:00–13:30</td>
<td>Keynote Speech 6</td>
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<td>Cultural Tour</td>
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<td>16:00–16:30</td>
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<td>16:30–18:30</td>
<td>Academic Sessions</td>
<td>16:00–18:00</td>
<td>Academic Sessions</td>
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<td>18:30–19:00</td>
<td>Break</td>
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<td>19:00–21:00</td>
<td>Welcome Reception</td>
<td>19:00–21:00</td>
<td>Farewell Party</td>
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Legend:
- **H**: Architectural History and Theory
- **P**: Architectural Planning and Design
- **M**: Building Materials
- **CM**: Construction Eng. & Management
- **MU**: Multidisciplinary Collaborations
- **S**: Structural Engineering
- **U**: Urban Planning and Design
- **E**: Environmental Technologies
KEYNOTE SPEECHES

Keynote 1. Land-based Rationalism: My Design Philosophy

Date & Time  10:30~11:10, October 24(Wed)
Venue  Concert Hall

Abstract
Land-based rationalism
Nowadays, cities are faced with the problem of monotony and lack of features. Therefore a design approach with great concern for natural and cultural resources has been created to preserve natural resources, respond to climate conditions, raise our awareness of cultural inheritance, and provide guidance to today's social life.

Land-based rationalism: Based on respect for natural environment and the effort to fit into nature
CITC Jinling Hotel
Mogao Grottoes Digital Exhibition Center

Land-based rationalism: Based on adaption to climate conditions and reduction of energy-consuming area
Haikou citizen Visitor Centre
Tianfu Agricultural Exposition

Land-based rationalism: Based on urban context repair and rural culture rejuvenation
Renovation of Xi'an Dahua textile mill's plant and production auxiliary room
The school of Kunqu Opera in West Creek Village

Land-based rationalism: Innovation for future cities
Temporary Office Area for Xiongan Public Service Center
Xiongan Design Center
Integrated Transportation Hub of Beijing Sub-center Station

Kai Cui
Honorary President
China Architecture and Design Group
China

Keynote 2. Housing Systems Tokyo • Seoul • Beijing

Date & Time  11:10~11:50, October 24(Wed)
Venue  Concert Hall

Abstract
He has in mind a multilateral comparison of the housing supply system in Japan, Korea and China in this lecture. He will speak of his observation about the difference and similarity in regulations, circumstances and social backgrounds of the supply of housing in each country with introducing his works.

Riken Yamamoto
Professor
Nagoya Zokei University of the Arts & Design
Japan
KEYNOTE SPEECHES

Keynote 3. Connective Compound Body
Date & Time: 11:50~12:30, October 24(Wed)
Venue: Concert Hall

Abstract
Jang Yoon Gyoo is the Principal of Unsangdong Architects Cooperation. Unsangdong Architects is the experimental group organized to realize conceptual architecture with variable possibilities of cultural contents. The main research and project of Unsangdong is based on the diversity of architecture. In the nearest 2007, Unsangdong received AR Awards from Architectural Review which is world-famous architectural award. Unsangdong received Vanguard Award from Architectural Record that is awarded to innovative architect in the world in 2006. Jang Yoon Gyoo was selected one of 40 noteworthy international architects by the japanese journal <10+1> in 2001. And last October he gave a lecture at UC Berkeley that the first lecture as the Korean architects. Also In 2008 he gave a lecture for RIBA. Jang Yoon Gyoo introduced the idea of ‘space coordinator’ and showed experimental works at Ssamzie Project, the Seoul Museum of Art CheongGyeChun Exhibition and the Preliminary Alert Exhibition. He is presently a professor at the school of architecture, KookMin university, and a representative of gallery JUNGMIOS as an establishment to extend cultural codes passing over architecture. He is also leading a new architectural experiment by changing the atelier Jang Yoon Gyoo for theory & experimentation to the UNSANGDONG architects cooperation.

www.usdspace.com

Keynote 4. Material_Metry : Interpretation of Materials as a Geometric Unit of Measurement and the Semantic Reconstruction of a Site
Date & Time: 10:00~10:40, October 25(Thu)
Venue: Concert Hall

Abstract
One of the greatest features of architecture is that it is built on a site. Ultimately, the architect should analyze the various potentials of a site and derive formative possibilities while at the same time considering what meanings to generate within the context of the topography. In this sense, ‘materials’ are elements that contain the essential meaning of a construction and determine the possibilities of form. In other words, the use of materials is not merely the process of ‘clothing’ something, but rather the process of reinterpreting the meanings of a site while at the same time potentially forming an inherent logic for the construction of a building. The projects of JOHO architecture that are introduced in this PT are experiments that reinterpret the meaning of a site via the essential properties of materials. As basic units of measurement for form-based clustering, the properties of the units that each material possesses act as a logic for interpreting the conditions of a site and reconstructing its meaning.
KEYNOTE SPEECHES

Keynote 5. Doodle Constructivism

Date & Time 10:40~11:20, October 25(Thu)
Venue Concert Hall

Abstract

An existing bridge is spray painted red, and the act turns reality into a rather surreal scenery. A kind of foundation for an alternative reality (or a future) is born. The nightly traffic jam is enjoyed with a clubber’s gaze. Harboring far above the bridge, the aggregation of rear red lights becomes the dances of strange eyed animal. A blade runner like billboard hovers over the glass skin of the viewing night club bar, a door opens and leads to a bridge like walkway to nowhere. Alas! a depressed, tormented and ecstatic soul will probably leap from the end of the walkway. Somebody has really fallen from the hovering bridge. News flashes minutes to the hour, and next day, there is a long procession of mourners gathering at the crematorium under the bridge, the ashes are thrown into the river, a distant practice of innate memories of an imported and domesticated religion of Buddhism. The energy of the burned souls is stacked into a bio-cell which becomes a resource for a love hotel called spiritaulium, situated right across from the crematorium.

The love hotel corridor is spooky for it is so barreness and hight, no one greets you but for the artificial cute female voices. You have no idea what kind of room you will enter, The thick concrete wall is the barrier and bearer of mystery. Finally you enter a room to be shocked. A female pleasure soul called nova greets you with a strange but enticing smile, A fake existence, An illusion is consciously recognized, but as the Buddhists and others have said, that reality is a kind of sensation, an illusion anyway…

Hoon Moon
Principal
Moon_bal_sso/ MOONHOON ARCHITECTS
Korea

Keynote 6. Context Driven Architecture in Korea

Date & Time 11:20~12:00, October 25(Thu)
Venue Concert Hall

Abstract

Architecture is the basic element that forms the city. Consequently, the way of production of architecture has a profound effect on the principle of city formation. Unlike the usual production of architecture which required a long time and labour-intensive methods, it has begun to change to be more effective. Various efforts have been required to make space faster with reasonable price. The diversity of life pattern is changing the city through a soft approach based on various contents industry. Therefore, architecture is also required to think and approach more softly. In order to cope with this phenomenon, we will focus on the work that directly changed the production method of architecture and predict the future city.

Chanjoong Kim
Principal
THE_SYSTEM LAB
Korea
SPECIAL SESSIONS

Special Session 1
Organizer: Dae Ik Kim (Professor, Hankyong National University, Korea)

Reunification: Preparation for the Reunification of Korean Peninsula focused on Architecture, Urban Issues Including Infrastructure

14:00–16:00, October 24(Wed) Auditorium(1F), Alpensia Convention Center

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<th>Dae Ik Kim (Professor, Hankyong National University, Korea)</th>
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Gunter Henn (Professor, Technical University of Dresden, Germany)  
**SS 1-2.** North Korean Architecture - Present and Past  
Valeriy A. Savostenko (Associate Professor, Far Eastern Federal University, Russia)  
**SS 1-3.** A Study on the Improvement of Housing Environment in North Korea  
Jin Chul Park (Professor, Chung-Ang University, Korea)  
**SS 1-4.** Public Private Partnership(P/PP) Application to Care TB Disease in North Korea  
Jong Ho Ock (Professor, Seoul National University of Science and Technology, Korea) |
| Panelists | Youngjong Lee (Director, Joongang Ilbo, Korea)  
Jong-Suk Lee (Principal, Hudigm Architects & Engineers Co., Ltd., Korea)  
Jae Yong Chung (Professor, Hong Ik University, Korea) |

Special Session 2
Organizer: Do Nyun Kim (Professor, Sungkyunkwan University, Korea)

Smart City: Making a Good City with Utilizing Cutting Edge Technology

16:30~18:30, October 24(Wed) Auditorium(1F), Alpensia Convention Center

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<th>Moderator</th>
<th>Do Nyun Kim (Professor, Sungkyunkwan University, Korea)</th>
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</table>
| Speakers | **SS 2-1.** Smart City Development towards Sustainable Communities  
Shinji Yamamura (Principal Consultant, Nikken Sekkei, Japan)  
**SS 2-2.** Shanghai Urban Regeneration - Some Key Issues in the New Era  
Yongjie Sha (Professor, Tongji University, China)  
**SS 2-3.** People-centered Smart City and Busan National Pilot City  
Jong-Sung Hwang (Master Planner, Busan EDC National Pilot Smart City, Korea) |
| Panelists | Kwang Chan Kyung (Smart City Unit Director, LG Uplus, Korea)  
Sung Min Yang (Associate Principal, SAMOO Architects & Engineers, Korea)  
Sae Hyung Sohn (Professor, SungKyunKwan University, Korea)  
Hee-Ji Lim (Senior Research Fellow, The Seoul Institute, Korea) |
## Overview

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<td>P1-1 ~ P1-11</td>
<td>Youngmin Koo</td>
<td>P1-1 ~ P1-11</td>
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<td>Architectural Planning &amp; Design</td>
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<td>Sachiko Mishima</td>
<td>P2-1 ~ P2-10</td>
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<td>Dagwallyeong Room 2</td>
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<td>Nahyang Byun</td>
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<td>24 Oct. 16:30-18:30</td>
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<td>P4</td>
<td>Ligang Shi</td>
<td>P4-1 ~ P4-11</td>
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<td>24 Oct. 16:30-18:30</td>
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<td>Tomohisa Hosoda</td>
<td>P5-1 ~ P5-11</td>
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<td>Architectural Planning &amp; Design</td>
<td>25 Oct. 13:30-15:30</td>
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<td>Han Jong Jun</td>
<td>P6-1 ~ P6-10</td>
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<td>25 Oct. 13:30-15:30</td>
<td>Pyeongchang Hall 1</td>
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<td>Jae-Yong Chung</td>
<td>P7-1 ~ P7-10</td>
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<td>25 Oct. 16:00-18:00</td>
<td>Dagwallyeong Room 2</td>
<td>P9</td>
<td>Fang Zhang</td>
<td>P9-1 ~ P9-10</td>
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<td>Chungyeon Won</td>
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<td>Pyeongchang Hall 2</td>
<td>P1</td>
<td>Chang-Ho Moon</td>
<td>P11-1 ~ P11-11</td>
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<td>Architectural Planning &amp; Design</td>
<td>24 Oct. 14:00-16:00</td>
<td>Dagwallyeong Room 1</td>
<td>H1</td>
<td>Masahiko Tomoda</td>
<td>H1-1 ~ H1-10</td>
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<tr>
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<td>24 Oct. 14:00-16:00</td>
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<td>H2</td>
<td>Jie-Heerah Yun</td>
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<td>Michael Hyoungsuk Lee</td>
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<td>Architectural History &amp; Theory</td>
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<td>Structural Engineering</td>
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# ACADEMIC SESSIONS _Oral Presentation_

**October 24(Wed)**

**Chair**  
Masahiko Tomoda (Japan Center for International Cooperation in Conservation, Japan)

## H1  Architectural History and Theory

### H1-1  Research on the Buildings of Posthouse for the Joseon Dynasty’s Envoy Visiting in Beijing in the Ming and Qing Dynasties  
Jianfei Dong, Dongsoo Han  
Harbin Institute of Technology, China

### H1-2  Miscommunication Between Architect and Artist at the Banraisha (1951)  
Hideto Tomita  
Kyushu Sangyo University, Japan

### H1-3  The Early Reception of Leon Battista Alberti’s De re Aedificatoria in Japan  
Isao Miki  
Freelance, Japan

### H1-4  Construction of the Reproduction Method of Kodokan in the Edo Period  
Daisuke Shimizu, Rinri Koakutu, Takayuki Kumazawa  
Ibaraki University, Japan

### H1-5  Colonial Architecture in Timor-Leste as Tourism Resources  
Fumbee Kino, Seong-Lyong Ryoo  
Korea University, Korea

### H1-6  Architectural Features of Traditional Houses in Bhutan  
Masahiko Tomoda, Tsuquito Eura, Satoshi Unno, Ayumi Maekawa, Katsuura Sato, Alejandro Martinez, Hiroko Fukushima, Masami Fukumoto, Yeshi Samdrup, Nobuo Kamei, Okayama University of Science, Japan

### H1-7  Characteristics of Layout and Architectural Style on Sutra and Bell Towers in Japanese Buddhist Temples During Asuka and Nara Era  
Lina Yu  
Waseda University, Japan

### H1-8  Understanding the Color Systems of Architectural Decorations in the Tang Dynasty Through a Comparison with Those in the Nara Era  
Hanyang Wang, Masaki Koiwa  
Waseda University, Japan

### H1-9  Zaojing and the Constellations: The Development of Zaojing in Han China  
Jiao Xue  
University of Nottingham Ningbo China, China

### H1-10  Re-Construction Study on the “Can Chanh Dien” Main Palace of Hue Imperial City, Vietnam – World Cultural Heritage  
Vinh An Le, Xuan Hieu Luong, Duong Tan University, Viet Nam

## P1  Architectural Planning and Design

**Chair**  
Youngmin Koo (Inha University, Korea)

### P1-1  Study on Mongolian Decorative Features Expressed in the Regional Building  
Li li, Shao long  
Inner Mongolia University of Technology, China

### P1-2  Study on Proportion of Elevation and Curtain Wall in High-rise Office Building by Mies van der Rohe  
Ayumi Maruka, Masahiro Takasago  
Wakayama University, Japan

### P1-3  Occurrence Conditions of ‘Merged Temples’ in Varanasi: Hindu Temples Covered or Wrapped with Surrounding Buildings  
Kuwamu Yanagisawa, Ryosuke Ohara, Shota Yamamoto  
Kyoto University, Japan

### P1-4  Forever Provisionality: Eric Owen Moss’s Architectural Experiment  
Fei Lian, Liqun Xiang  
Harbin Institute of Technology, China

### P1-5  Comparative Study of Medieval Timber-frame Joineries in Japan and England  
Hajime Tamura, Masahiro Takasago  
Wakayama University, Japan
ACADEMIC SESSIONS _Oral Presentation

14:00~16:00  
Pyeongchang Hall 1(1F), Alpensia Convention Center

Chair  Sachiko Mishima (Shimane University, Japan)

P2  Architectural Planning and Design

P2-1  Municipal Merger Process and Reorganization of Common Public Wealth Service in a Mountainous Area - A Case study on Okuizumo Town, Shimane Prefecture –  
Sachiko Mishima, Tomohisa Hosoda, Akira Ushijima, Mahito Nakazono, Ryosuke Imatomi, Tomoya Toyota  
Shimane University, Japan

P2-2  The Process and Issues of the Residential Renovation Construction of Unit-type Apartments in Beijing of China  
Xiaomeng Wang, Tsutomu Shiga  
Kyushu University, China

P2-3  Relationship Between Administrative District Change and Regional Characteristics by Municipal Merger - Reorganizing Process of Administrative District by Municipal Merger in Chugoku Region –  
Ryosuke Imatomi, Mahito Nakazono, Akira Ushijima, Sachiko Mishima  
Yamaguchi University, Japan

P2-4  Public Junior High School Foundation and Reorganization by Municipal Merger in the Showa Period in Okayama Prefecture  
Kyocho Abe, Mahito Nakazono, Akira Ushijima  
Yamaguchi University, Japan

P2-5  Study on Change and Evaluation of Spatial Elements in Facade Renovated Buildings  
Naoya Goto, Hiroki Suzuki  
Naoya Goto Architects Office, Japan

P2-6  Establishing a Standard for Architectural Education in Asia  
Younal Lee  
Office for City Brand Design, Japan

P2-7  Study on the Spatial Composition of Rumah Susun (SURABAYA, INDONESIA)  
Aiko Funo, Teruki Yamagishi, Naoyuki Hirota, Shuji Funo  
Nihoen University, Japan

P2-8  A Case Study of Room Sharing Among University Students Under a Project to Utilize Vacant Houses in Yato Area, Yokosuka City:  
A Study on the Use of Vacant Houses with Poor Market Liquidity for Welfare Purposes  
Tomoko Chiba, Mahito Nakazono, Akira Ushijima, Sachiko Mishima  
Kyushusangyo University, Japan

P2-9  Site Selection for Adaptive Reuse Architecture in Johannesburg, South Africa  
Setapao Moloi, Jun-Ichiro, Giorgos Tsutsumi  
Ryukyu University Department of Civil Engineering and Architecture, Japan

P2-10 Study on Spatial Process and Reorganization of “Dazayuan” in Old Outer Castle of Beijing  
Mieko Kawai, Haoyuan Cheng  
University of Shiga Prefecture, Japan
# U1 Urban Planning and Design

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<td>A Planning Process Review of Adjustment Among Large-scale Developments Within Same Watershed Area, in Case of Reuse Fundamental Plan of the Marine Corps Air Station Futenma in Okinawa Pref., Japan</td>
<td>Hiroko Ono, Yuya Enokawa (University of the Ryukyus, Japan)</td>
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<td>The Influence of the Adaptive Reuse of Conbini on Suburban Japan</td>
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<td>A Study on Renewal Method of Disaster Prevention Building Blocks etc. for Sustainability in Central Urban Area of Regional City</td>
<td>Keisichi Wakisaka, Kazuo Tsuchiya, Kiwamu Yanagisawa (Shizuoka Institute of Science and Technology, Japan)</td>
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<td>Research on the Symbolic Expression of Landscape Design of Urban Industrial Abandoned Land from the Perspective of Semiotics</td>
<td>Huibao Li, Long Shao (Harbin Institute of Technology, China)</td>
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<td>U1-6</td>
<td>Relationship Between Contemporary Urban Sequence and Gase Distribution – Case Study of Eye-tracking Experiment in Shinjuku Area</td>
<td>Makri Oshima, Yosshuuki Kawazoe, Yurika Yokoyama (The University of Tokyo, Japan)</td>
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<td>Research on Rural Revitalization under the Background of Coordinated Development of Beijing, Tianjin and Hebei</td>
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<td>U1-8</td>
<td>The Next Wave of Gentrification: A Study of Conceptual Models of Gentrification</td>
<td>Jae Yong Chung, Kevin Carpenter (Hongik University, Korea)</td>
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<td>U1-9</td>
<td>Study on Urban Formation and Development in Davao City, the Philippines</td>
<td>Yuki Uruida, Juan Ramon Jimenez Verdejo (University of Shiga Prefecture, Japan)</td>
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# U2 Urban Planning and Design

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<td>Yang Zhou, Caiyun Qian, Zexing Wei (Nanjing Tech University, China)</td>
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<td>U2-2</td>
<td>Cultural Representation of Vernacular Housing in Jambi Traditions, Indonesia</td>
<td>Budli Artius Putra (STAI Yasn Miura Bungo, Indonesia)</td>
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<td>U2-3</td>
<td>Relationship between Public Residential Complexes and Surrounding Areas Part I - Research into the Nature of a “Danchi-housing Complex” in Harmony with its Surrounding -</td>
<td>Tomoi Fujihara, Asuka Yamada, Takaaki Koga, Tomo Gonoi (Tokyo Denki University, Japan)</td>
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<tr>
<td>U2-4</td>
<td>Relationship between Public Residential Complexes and Surrounding Areas Part II - Current Use of Facilities by Residents</td>
<td>Tomo Gonoi, Takaaki Koga, Asuka Yamada, Takumi Fujihara (Utsunomiya University, Japan)</td>
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<td>U2-5</td>
<td>Study on Dwelling Attraction Effect of Medical Facilities with a View to Policy of Compact City</td>
<td>Hironori Takakuwa, Shinji Ikaruga, Takeshi Kobayashi (Yamaguchi University, Japan)</td>
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ACADEMIC SESSIONS_Oral Presentations

U2-6  The Increasing Number of Detached Houses in Seoul and its Related Characteristics
Ji Hyuk Jang, Young Sang Kwon
Seoul National University, Korea

U2-7  A Study on the Distribution and Characteristics of the Public Housing Densely Inhabited by Foreigners in Japan
Shuang Wang, Sayaka Fuji
University of Tsukuba, China

U2-8  Social Housing in Germany – New Challenges and New Players After 100 Years
Ralf Zabel, Young Sang Kwon
Seoul National University, Korea

U2-9  A Study on the Public Facilities as Infrastructure of Low-rise Residential Community - Focused on the Infrastructure of Low-rise Residential Community in Seoul
Jee-Hun Shin, Na-Rae Lee, Hyun-Yo Choi, Donyun Kim
Sungkyunkwan University, Korea

U2-10 Research on Public Service Facilities in Daily Life Circle of the Elderly
Lei Wang, Mengying Wu, Hu Wang
North China University of Technology, China

14:00~16:00

M1 Building Materials

M1-1  A Basic Study on Estimation of Compressive Strength based on Deep Learning
Seung Jun Lee, Han Seung Lee
Hanyang University, Korea

M1-2  Effects of Nanosilica Incorporation on the Mechanical Recovery of Portland Cement Paste Exposed to High Temperatures
Heongwon Suh, Jaeyeon Park, Bumyean Cho, Jihoon Kim, Sungchul Bae
Hanyang University, Korea

M1-3  Quartz Powder Replacements for Cement: Effect of Water to Binder Ratio on Hydration and Mechanical Properties
Run-Sheng Lin, Xiao-Yong Wang
Kangwon National University, Korea

M1-4  Development of Sustainable Eco-Friendly Cement Using Scallop Shell as a Limestone Substitute
Jungwon Hap, Taeheon Park, Dongcheon Park, Sungchul Bae
Hanyang University, Korea

M1-5  The use of ESi for Corrosion Monitoring of Reinforcing Steel in Concrete under Immersion-and-dry Cycles
Seong-Hoon Kee, Je Kyung Kim, Jurng-Jae Yee
Dong-A University, Korea

M1-6  Synthesis of Ca0-A12O3-SiO2 System Clinker Using Bauxite and Limestone
Jaedo Han, Yunsu Lee, Hanseung Lee
Hanyang University, Korea

M1-7  Morphological and Corrosion Study of Sodium Phosphate Treated Al Coating
Han-Seung Lee, Jitendra Kumar Singh
Hanyang University, Korea

M1-8  Evaluation of Chloride Binding Capacity of Calcined LDHs In Cement Paste
Jaedoh Hap, Haneung Lee, Yunsu Lee
Hanyang University, Korea

M1-9  Analysis of Biodeterioration and Termite Damage in Wooden Houses through a Dismantling Survey
Tatsuro Kawada, Masao Nakajima
Kashi Preserving Co. Ltd., Japan

M1-10 The Use of Non-contact Surface Wave Transmission Measurements for Characterization of the Depth of a Surface-breaking Crack in Concrete Slabs
Seong-Hoon Kee, Jurng-Jae Yee
Dong-A University, Korea

M1-11 Anion Exchange resin, Cement mortar, Compressive Strength
Dohyun Jung, Yunsu Lee, Hanseung Lee
Hanyang University, Korea
### E1  Environmental Technologies

**E1-1** A Study on Residential Lifelogs Based on Estimations from Electric Usage  
Miona Kanno, Jeong-soo Kim, Yoshiki Higuchi  
Waseda University, Japan

**E1-2** Analysis of Energy Use and CO2 Emission Intensities by End Use for Public Use in Sample Apartment Complex through Measurement  
Hye Sun Jin, Han Young Lim, Soo Jin Lee, Sung Im Kim, Jae Han Lim, Seung Yeong Song  
Ewha Womans University, Korea

**E1-3** Influence of Changes of Household Size and Age of Residents on Energy Consumption in Japan  
Kozo Takaya, Takashi Inoue, Yuki Kyohara  
Tokyo University of Science, Japan

**E1-4** Modelling of a Domestic AHU using TRNSYS  
Seung Ho Park, Eui Jong Kim, Yong Sung Jang  
Inha University, Korea

**E1-5** Proposal of Control Method for Thermo Active Building System based on Model Predictive Control  
Yoshi Ogasawara, Yasuyuki Shiraiishi  
University of Kitakyushu, Japan

**E1-6** A Study on the Comparative Analysis of Buildings’ LCA for Green Building Certification Systems in Asian Developing Countries  
Kuldiza Culans, Sung Ho Tae, Rakhyun Kim  
Hanyang University, Korea

**E1-7** Characteristics of Annual Gas Consumption for Cooking by Family Types in Apartment Units  
Seo Jin Lee, YouJeong Kim, Sungim Kim, Hyesun Jin, Hanyoung Lim, Jaehan Lim, Seungyeong Song  
Ewha Womans University, Korea

### H2  Architectural History and Theory

**H2-1** The Evaluation of Pyu Ancient Cities, Myanmar in Terms of Urban Planning  
Yuki Yasui, Takeshi Nakagawa  
Waseda University, Japan

**H2-2** The Significant Meaning of the Conservation of Authenticity About Block Planning and Foundation Structure at Bayon Temple and other Angkor’s Ruins  
Takeshi Nakagawa, Yoshinori Iwasaki  
Waseda University, Japan

**H2-3** Spatial Structure of Historical Capital Cities of Burma (Amarapura and Mandalay) in Use of Traditional Measurement Units  
Ko Yamada, Kosuke Matsumura, Aiko Odake  
Tamano Consultants Co., Ltd., Japan

**H2-4** Early Modern Urban Development in Japanese Rural Enclaves (Patterns on Remote Medieval Settlements Finding a Way to the World)  
Diego Cosa Fernandez  
Hōsei University (Tokyo), Spain

**H2-5** Accumulation of Time - Baroque in Turin and Harbin  
Songfu Liu, Yidan Liu, Jiang Chang  
Harbin Institute of Technology, China

**H2-6** Confluence of Architectural Characteristics and Concepts in Chinese Churches : History and Design Practice  
Zhang Du  
Tongji University, China

**H2-7** From Temperate to Tropical : The Design Method by Junzo Sakakura in Thailand Vocational School Project  
Junichi Sawaki, Piyarat Nanta, Ravij Kuanprasert, Nobuyuki Ogura, Toru Irie  
University of the Ryukyu & King Mongkut Institute of Technology Ladkrabang, Japan

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**Chair**  
Jie-Heerah Yun (Hongik University, Korea)

**Chair**  
Jae-Han Lim (Ewha Womans University, Korea)
H2-8  The Synthesis of the “Open Veranda” and Modern Form by Friedrich Silaban - A Case Study on the Realization of Residence for Lie A Hong (1968-1969)
Dahniai, Shoichiro Sendai
Hiroshima University, Japan

H2-9  A Study on the Urban Formation of Shimla Through the Construction of the Urban Facilities
Koichi Kubo, Yasuhiro Tanimoto, Yoshiyuki Yamada
Tokyo University of Science, Japan

H2-10 The Research on the Relative Regionality of the Vernacular Architecture, Focusing on the Local Private Houses in the Port Cities Facing the Inland Sea Seto and the Osaka Bay
Ryota Itto, Yoshiyuki Kawasaki
The University of Tokyo, Japan

16:30~18:30  Daegwallyeong Room 2(1F), Alpensia Convention Center

Chair  Nahyang Byun (Architecture & Urban Research Institute, Korea)

P3  Architectural Planning and Design

P3-1  Campus Outdoor Communal Fitness Space Features that Encourage Visitation Among Community Elderly : A Conjoint Analysis
Yunfeng Chen, Lingling Li
Harbin Institute of Technology, China

P3-2  Supply of Medical and Welfare Facilities for the Elderly in Islands of the Seto Inland Sea
Kaori Kurashita, Sachiko Mishima, Mahito Nakazono, Shoken Koh, Sachiko Yamamoto
Yamaguchi University, Japan

P3-3  Research on Design of Urban Micro-Space Environment Based on the Behavioral Requirements of the Elderly - Taking Yan’an Road Elderly Paradise in Qingdao City as an Example
Xiaopeng Bai, Qing Wang
Harbin Institute of Technology, China

P3-4  Characteristics of Use Composition of Day care Facilities for the Elderly by Plan Configuration and Corner Allocation
Nodoka Shiomi, Sachiko Mishima, Mahito Nakazono, Shoken Koh, Sachiko Yamamoto
Yamaguchi University, Japan

P3-5  Design Improvement Strategies for the Aged Care Facilities in Severe Cold Areas Based on Indoor Thermal Comfort : A Case Study of an Elderly Apartment in Harbin
Xintong Wei, Ge Yu, Ying Liu
Harbin Institute of Technology, China

P3-6  A Study on the Proper Location and the Needs of the General Support Center for the Elderly in South Korea
Mu-seon Kim, Kyung-Hoon Lee, XiaoYu Wu
Korea University, Korea

P3-7  The Architectural Factors in Continuity of Living for the Elderly After Falls and Fractures
Shiyou Imaeda, Bo-Kyung Son, Emiko Uchidama, Tomoko Tanaka, Sakiko Taniguchi, Suthutvoravut Unyaporn, Yusuke Miyoshi, Toshiaki Tanaka, Katsuya Iijima, Toshiro Otsuki
The University of Tokyo, Japan

P3-8  Elderly Housing: What Kind of Support do we need?
Nahyang Byun, Seok Hwan Park
Architecture & Urban Research Institute, Korea

P3-9  Study on Welfare Facilities for the Healthy Elderly in Xi’an, China
Yue Ai, Takashi Yokota, Tadasu Iida, Koji Itami
Osaka University, Japan

P3-10  Study of Design Awareness Using Landscape Card Simulation
Nanfora Sonettaka, Masami Kobayashi
Graduate School of Meiji University, Japan

P3-11  Small-scale Facility and Affordable Materials
Nayatat Tonmitr, Nobuyuki Ogura
Rakon Kaein University, Thailand
### 16:30~18:30  
Pyeongchang Hall 1(1F), Alpensia Convention Center

**Chair**  
Ligang Shi (Harbin Institute of Technology, China)

**P4 Architectural Planning and Design**

| P4-1 | Mothers’ Usage of Municipal Child-Care Support Places and the Personal Network Created in There  
Emiko Itami  
Osaka University, Japan |
| P4-2 | Research on Optimizing Strategy of Gymnasium Interface Morphology Based on CFD Simulation  
Ligang Shi, Yuechao Cao, Xu Du  
Harbin Institute of Technology, China |
| P4-3 | Characteristics of Utilization of a New Type of Facility for Children and Adults With Severe Disabilities -Case Study of a Day Care and Respite Care Center-  
Minu Ra, Kenji Takemura, Yuki Kamioka  
Tokyo Metropolitan University, Japan |
| P4-4 | Comparison of Space Utilization Patterns of After-school Daycare Center by Pupil’s Numbers  
Shotaro Kanazaki, Mahito Nakazono, Sachiko Misima  
Yamaguchi University, Japan |
| P4-5 | Study on Change and Space Evaluation of the Personal Space during the Tea-ceremony Room  
Ataru Shio, Mao Keiko, Hiroki Suzuki  
Chiba University, Japan |
| P4-6 | Research on what Visually Disabled People See When They Walk on the Street  
Yuji Matsuda, Ayu Kawauchi  
The University of Tokyo, Japan |
| P4-7 | Methods for Constructing Buildings Economically in Khon Kaen, Thailand  
Toru Irie, Nayamat Tonmitr  
University of the Ryukyus, Japan |
| P4-8 | The Epistemological Consolidation of Building Parts in Utterance  
Nobuhito Hasegawa, Kozo Kadowaki  
Meiji University, Japan |
| P4-9 | Exterior Design of Resort Hotels in the Northern Part of Okinawa, Japan  
Shunya Suzuki, Toru Irie  
University of the Ryukyus, Japan |
| P4-10 | A Study on Verification of Egress Assessment Factors in High-rise Building  
Gi-sung Han, Tae-Young Kim, Boo-Seong Kang, Kyung-Hoon Lee  
Korea University, Korea |
| P4-11 | Study on the Process of Creating the Memorial Facility After Large Disaster  
Kento Hiramatsu, Yaruki Ohoda, Haruka Tsukuda  
Tohoku University, Japan |

### 16:30~18:30  
Pyeongchang Hall 2(1F), Alpensia Convention Center

**Chair**  
Tomohisa Hesoda (Shimane University, Japan)

**P5 Architectural Planning and Design**

| P5-1 | A Study on the Present Condition and Classification of Plans of Public Housing for the Handicapped  
Haruka Kitamura, Misako Naka, Sachiko Mishima, Mahito Nakazono, Akira Ushijima, Syohken Koh  
Yamaguchi University, Japan |
| P5-2 | Effects of Unplanned Multifamily Dwellings on the Hillside Built Environment of Botswana: Focusing on Sanitary Problems in Peleng, Lobatse  
Thubiso Seno, Paul Lyamuya, Nobuyuki Ogura  
University of the Ryukyus, Japan |
| P5-3 | Types of Commercial Activities and Their Impact on Mixed-use Housing: in the Case of Khair-khana Kabul City  
Naweed Ahmad Hashemi, Nobuyuki Ogura  
University of the Ryukyus, Japan |
ACADEMIC SESSIONS_Oral Presentation

U3 Urban Planning and Design

U3-1 A Survey on the Characteristics of the Streets Focused on Wheelchair Users in the City Center of Kumamoto - Database Creation of Navigation System for Wheelchair Users -
Shotaro Nagata, Motoya Koga, Juan-Miguel Valverde, Ryusei Oda, Shinobu Izumi
Sojo University, Japan

U3-2 A Study on the Role Played by Local Nature for Residents
Jun'ko Sato, Keiko Inagaki, Satoru Sadohara, Takahiro Tanaka
Yokohama National University, Japan

U3-3 Study on Collaborative Method between Station and Medical Facilities
Tomoko Matsumoto, Shinji Ikura, Takeshi Kobayashi, Junhwan Song
Yamaguchi University, Japan

U3-4 A Study of Characteristics of LR in Returned U.S. Military Base in Okinawa
Tomuma Yonashirap, Hiroko Ono
University of the Ryukyu, Japan

U3-5 City-scale Green Infrastructure Implementation Strategies through the Examination of Philadelphia’s Green Infrastructure Plans
Takanori Fukuoka, Sadahisa Kato, Yuuki Katagiri
Tokyo University of Agriculture, Japan

U3-6 Spatial Configurations of Multiethnic Communities in Urban Manchuria: Case of Changchun 1898-1932
Yu Yang
Kyushu University, Japan

U3-7 A Survey and Analysis on the Movement Convenience Focused on Mobility-Challenged People Around Copenhagen Downtown
Ryusei Oda, Motoya Koga, Juan-Miguel Valverde, Shotaro Nagata, Shinobu Izumi, Hans Skov-Petersen
Sojo University, Japan

U3-8 Present Situation and Reuse of Abandoned Urban Railways A Case Study on Railways in Dalian
Prosianq Cheng, Yan Xiao
Dalian University of Technology, China
U3-9  The Spatial Configuration and Use Patterns of Pedestrian Alleys on Covered Watercourses in Tokyo  
Naoki Saito, Yuichi Tatsumi, Jorge Almazan  
Keio University, Japan  

U3-10  Informal Development in Nairobi  
Haruka Ono  
Toyohashi University of Technology, Japan  

16:30~18:30  Luge Hall(1F), Alpensia Convention Center  
Chair  Min Ho Chey (Keimyung University, Korea)  

S1  Structural Engineering  

S1-1  Seismic Response of Base-Isolated Buildings Considering Earthquake-Induced Structural Collision with Retaining Walls  
Dongha Kim, Yuji Miyamoto  
Osaka University, Japan  

S1-2  Experimental Study of Headed bars in SFRC Exterior Beam-Column Joints  
Seungjoon Lee, Uijin Cho, Changsik Choi  
Hanyang University, Korea  

S1-3  Analytical Evaluation on Seismic Capacity of Korean Typical Existing School Buildings  
Ho Choi, Makoto Maruta  
Shizuoka Institute of Science and Technology, Japan  

S1-4  Seismic Reinforcement of Existing Timber Architecture Using Permeable Structural Wall Part 1 Outline of Research  
Kaori Fujita, Kohata Kawashima, Hiromi Sato, Masahiro Watabe, Toshiaki Sato, Tsuyoshi Seike, Masao Koizumi  
The University of Tokyo, Japan  

S1-5  Estimation of Shear Strength of the SFRC Coupling Beam  
Jin Sung Kim, Chang Sik Choi  
Hanyang University, Korea  

S1-6  A Study on Sliding Effect of Warehouse Building Considering Soil-Structure Interaction (SSI)  
Takuma Imada, Kuniaki Yamagishi  
Kanazawa Institute of Technology, Japan  

S1-7  The Explicit Dynamic Algorithm Based on the Strain-smoothed FEM for the Rubber-like Material Simulation  
Changwook Lee, Dong-Keeon Kim, Jung-Jae Yee  
Dong-A University, Korea  

S1-8  Study on Nonlinear Behavior of Non-Footing Girder Building  
Yuji Michishita, Kuniaki Yamagishi, Hironobu Miyasaka, Yuji Miyamoto, Toshio Kobayashi  
Kanazawa Institute of Technology, Japan  

S1-9  Advanced Performance of 2-DOF Semi-Active Segmental Building Systems for Multi-level Seismic Hazard Mitigation  
Min-Ho Chey, Sung-Hyun Jang, Dong-Hee Kwon  
Keimyung University, Korea  

S1-10  Seismic Performance of Steel Pipe Pile with Wings and a Construction Method for Joining with an Upper Column  
Rensei Akiyama, Yasuhiro Kasahara, Toshi Kobayashi, Osamu Takahashi  
Tokyo University of Science, Japan  

16:30~18:30  Bobsleigh Hall(1F), Alpensia Convention Center  
Chair  Koji Itonaga (Nihon University, Japan)  

MU1  Multidisciplinary Collaborations  

MU1-1  A Research on Regional Characteristics Affecting Housing Area  
Seiichi Kawamoto  
Toyama University of International Studies, Japan  

MU1-2  A Study on the Plan Generating Deep learning Model Using DCGANs  
Seunghyeon Han, Hyunyo Choi, Donyun Kim  
Sungkyunkwan University, Korea  

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ACADEMIC SESSIONS _Oral Presentation_

**MU1-3**  A Study on the Characteristics of Forest Park Trails in Heilongjiang Province from the Perspective of Health and Wellness Tourism  
Mengying Wang, Shan Feng  
Harbin Institute of Technology, China

**MU1-4**  Limits of Decontamination of Residential Land in Rural Areas Radioactively Contaminated by Tokyo Electric Power Company Fukushima Nuclear Power Plant Accident  
Koji Itonaga, Kenji Uragami, Masataka Seki  
Nihon University, Japan

**MU1-5**  A Study on Needs and Design of Living Space with Intelligent Infill for the Elderly Person  
Yunosuke Shima, Akiko Watanabe  
Tokyo Denki University, Japan

**MU1-6**  A Study on Using Augmented Reality in Architectural Design Studio  
Hyunseo Choi, Dongyoon Shin  
Dankook University, Korea

**MU1-7**  The Practice of Project Based Design Education by Multi-Disciplinary Adaptive Collaboration at Field Design Center, Tohoku University  
Makashige Motoe  
Tohoku University, Japan

**MU1-8**  The Concept, Design Method and Regulations of Complex Design of Urban Green Space and Architecture  
Xi Zhou, Fang Zhang  
Suzhou University of Science and Technology, China

**October 25(Thu)**

**H3**  Architectural History and Theory

**H3-1**  Towards the Singularity of Architecture  
Kenji Sato  
Shizuoka Institute of Science and Technology, Japan

**H3-2**  The Times of Dongyang Choidae: Trends in the National Facilities during the 1980s in Korea  
Nayon Sung, Bong Hee Jeon  
Seoul National University, Korea

**H3-3**  Spatial Logic of Eileen Gray: Intersection of “Furniture” and “Wall” in E.1027 (1929)  
Satomi Ishihara, Shoichiro Sendai  
Hiroshima University, Japan

**H3-4**  Guo Zhuang: Re-Created Nature in Microcosm  
Peifang Sun  
Zhejiang University of Science and Technology, China

**H3-5**  A Study on Continuity of Indoor and Outdoor Space in 6 Major Works of Raphael Soriano’s Detached Houses  
Ryo Masuda, Shingo Suekane  
Kyoto Arts and Crafts University, Japan

**H3-6**  Merging Past Craft and Present Architecture: Renovation in Yanesen, Tokyo  
Veronica Nicholson  
The University of Tokyo, Japan

**H3-7**  The Meaning of Architecture to Us From That of Der BAU by Walter Gropius  
Hikari Tsushima  
Kindai University, Japan

**H3-8**  Study of the Stream of Environmental Consciousness in Thailand  
Tatsunori Sato, Piyanart Nanta, Ravij Kuanprasert, Nobuyuki Ogura, Toru Irie  
University of the Ryukyus, Japan

**H3-9**  Media Screen, Blank Wall, and Spatio-Temporal Gateway: The Impact of Media Transformation on the Dwelling Space of One-Person Households  
Hyoung Kim  
Chonnam National University, Korea

**H3-10**  How Do Buildings Stand?: The Philosophy of Marcel Breuer  
Spavit Daemthamrongkul  
The University of Pennsylvania, United States
13:30~15:30  Daegwallyeong Room 2(1F), Alpensia Convention Center

**Chair**  Won-joon Choi (Soongsil University, Korea)

**H4  Architectural History and Theory**

**H4-1**  Typology of Haikou City (Hainan Island) Houses and Their Transformation Processes  
Chong Zhao, Wei Yan, Xinlei Zhuang  
Fuzhou University, China

**H4-2**  Integration and Regeneration - Dynamic Protection on the Original Form of Traditional Hezhe Settlement Spaces  
Lihonglin, Zhuying, Cheng Peng  
Harbin Institute of Technology, China

**H4-3**  Field Adaptability of the Prefabricated Recovery Housing in Okinawa  
Haruno Kinjo, Nobuyuki Ogura  
University of the Ryukyus, Japan

**H4-4**  The Evolution: From Traditional Courtyard to Modern Atrium Space in Dashilar Area in Beijing  
Yi Qian, Ziwei Qin  
North China University of Technology, China

**H4-5**  The Comparison Study Between China and Japan on Renewal and Protection of Traditional Dwelling: From the Eaves Gallery of China to Gangi-dori of Japan  
Shuting Yan, Mamiko Fujiyama, Toshikazu Ishida  
Tohoku University, Japan

**H4-6**  The Characteristics of Planning of People’s Commune in Rural China - Case Study on Chayashan Weixing Commune, Zhumadian City, Henan Province, China -  
Fengu, Waseda University, Japan

**H4-7**  A Study of the Composition Layout of The Setswana Traditional Space Kgotla  
Reullah Seemoe, Mamiko Fujiyama, Toshikazu Ishida  
Tohoku University, Japan

**H4-8**  The Floor Plan and Structure of the Traditional Townhouses in the Historical Harbor area in Tadotsu  
Konatsu Yamasa, Miyako Kamatoko, Ryohei Miura  
Kagawa University, Japan

**H4-9**  Associational Link of Chinese Merchant House in Lasem  
Fitria Puspita Ranj, Widjaja Martokusumo  
Bandung Institute of Technology, Indonesia

13:30~15:30  Pyeongchang Hall 1(1F), Alpensia Convention Center

**Chair**  Han Jong Jun (Hanyang University, Korea)

**P6  Architectural Planning and Design**

**P6-1**  Architecture in the Age of Artificial Intelligence - A Review of the 21st Century Contemporary Japanese Architecture  
Preceding the Artificial Intelligence Architecture  
Danyal Ahmed  
Tohoku University, Japan

**P6-2**  Digital Analysis of Pedestrian System Construction in Post-Urbanization - Take Dalian Qing Niwa Commercial District as an Example  
Huili Li, Xiaobo Ding  
Dalian University of Technology, China

**P6-3**  Acquisition of Optional Result Set in Parametric Design of Buildings  
Shanshan Kong, Ge Yu, Ying Liu  
Harbin Institute of Technology, China

**P6-4**  The Characteristics of Bungalow as a Leisure Cottage in Resort Area, England  
Mamiko Miyahara, Ayano Toki  
Saga University, Japan

**P6-5**  Effect of the Thermal Environment in Kindergartens on Children’s Physical Activity and Athletic Ability  
Saeka Shiraishi, Toshiharu Ikaga, Yukie Nakajima  
Keio University, Japan
ACADEMIC SESSIONS _Oral Presentaion

P6-6 A Study on Physical Environmental Design for Intellectual Activity of SOHO The Effects of the Layouts of Office Space on Information Processing Activity
Kyoei Maruyama, Akiko Watanabe
Tokyo Denki University, Japan

P6-7 Simulation of Ventilation Window Position and Design Strategy in National Fitness Center in Cold Area Based on Sharing Technique
Yina Liu, Yujie Shen, Ge Yu
Harbin Institute of Technology, China

P6-8 Human Environmental Impact Analysis of Mosque Buildings in Hohhot
Dezhi Zou, Yi Wen, Yue Ma
Inner Mongol University of Technology, China

P6-9 Methodology for Acquiring Architectural Certifications of Modular Housing - Focused on Ga-Yang Field-Test Case Study
Yuu Yun, Sang-Woo Cho, Sung-Woo Kim, Kyung-Hoi Lee
Korea Research Institute of Eco-Environmental Architecture, Korea

P6-10 A Study on Urban Regeneration Plan Through a Geographical Inquiry into the Site of the Old Wang-sip-ri Gyeongsung Orbit Train - Focused on Yi Fu Tuan’s Concept of Topo-philia in Association with Urban Agriculture
Ock Sucking, Youngmin Koo
Inha University, Korea

13:30~15:30 Pyeongchang Hall 2(1F), Alpensia Convention Center

Chair  Jae-Yong Chung (Hongik University, Korea)

P7 Architectural Planning and Design

P7-1 Architectural Behavior-Towards Interactive Architectural Design
Tong Sun, Guohua Ji
Nanjing University, China

P7-2 The Redesign of a Street in Cebu Based on Residents’ Behavior Settings
Joachim Michael Espina, Suguru Mori, Rie Nomura
Hokkaido University, Japan

P7-3 Research on the Complex Mode of Chinese Campus Under the Inspiration of Modern Urban Complex
Chang Lu, Hongyuan Mei
Harbin Institute of Technology, China

P7-4 Physical Activity Intervention for Improving Learning Efficiency
Hideya Kato, Toshitaka Ikagi, Maki Ichihara, Yoshio Murata, Kumika Seki
Keio University, Japan

P7-5 Change and Estimation of the Number of Nursery Schools Children in Yamaguchi Prefecture
Riko Akiyama, Yuki Utashima, Sachiko Mishima, Mahito Nakazono, Sachiko Yamamoto
Yamaguchi University, Japan

P7-6 Post-Occupancy Evaluation on Huifengxincun Community in Wuxi, China
Lingxuan Ma, Kazunobu Minami
Shibaura Institute of Technology, Japan

P7-7 A Study on the Analysis of Users’ Safety-Satisfaction on the Outdoor Space in University Campus
Sung-Bin Yoon, Boo-Seong Kang
Seoul National University of Science and Technology, Korea

P7-8 Behaviour Analysis of a School as a tool for Design Planning
Gabriela Yoshitani da Luz, Eitaro Kobayashi, Kaname Yanagisawa
Chiba University, Japan

P7-9 Analysis on the Application of Productive Landscape in Residential Area
Qian Wang, Li Dong
Dalian University of Technology, China

P7-10 A Quantitative Grasp of Sloping Street Network Using the Multidimensional Graph Theory
Eriko Kitamoto, Satoshi Yamada, Kiyoaki Oikawa
Resumeikan University, Japan
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<th>Time</th>
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<td>13:30~15:30</td>
<td>Pyeongchang Hall 3(1F), Alpensia Convention Center</td>
<td>Kana Egawa (Tokyo Denki University, Japan)</td>
<td><strong>P8 Architectural Planning and Design</strong></td>
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|            |                   |                                            | P8-1 | A Study on the Behavior and the Spatial Characteristics of the Public Space at Private Property in Residential Area  
|            |                   |                                            |      | Joonho Hwang, Yoshiyuki Kawazoe  
|            |                   |                                            |      | The University of Tokyo, Japan |
|            |                   |                                            | P8-2 | Research on Architectural Design Required for Medical Facilities in Case of Disaster  
|            |                   |                                            |      | Kana Egawa, Atsushi Kimura  
|            |                   |                                            |      | Tokyo Denki University, Japan |
|            |                   |                                            | P8-3 | Strategy for Planning Public Housing during Recovery from a Large Tsunami Disaster - Case Study on Kamaishi City, Iwate Prefecture after the Great East Japan Earthquake  
|            |                   |                                            |      | Haruka Tsukuda, Yasuaki Ohnoda  
|            |                   |                                            |      | Tohoku University, Japan |
|            |                   |                                            | P8-4 | Disaster Education by Sharing Flood Experience in Thailand  
|            |                   |                                            |      | Mari Tanaka, Phaphorn Chaimuk  
|            |                   |                                            |      | Gunma University, Japan |
|            |                   |                                            | P8-5 | Spatial Formation of Flouting House in the Mekong Delta  
|            |                   |                                            |      | Takumi Mieutani, Misoa Kawai, Ryuichi Ashizawa  
|            |                   |                                            |      | University of Shiga prefecture, Japan |
|            |                   |                                            | P8-6 | Safety and Movement Comfort of Users at Rumah Susun Sewa in East Jakarta  
|            |                   |                                            |      | Rita Laksmitasari Rahayu, Rimsa Rusmiland, Indah Yusasari, Huri Suhendri  
|            |                   |                                            |      | Universitas Indraprasta PGRI, Indonesia |
|            |                   |                                            | P8-7 | The System Design of Trailer House for Disaster Recovery  
|            |                   |                                            |      | Shin Tsukita, Toshikazu Ishida  
|            |                   |                                            |      | Tokyo Metropolitan University, Japan |
|            |                   |                                            | P8-8 | A Study on Recovery of Urban Landscape Identity and New Khmer Architecture Abandoned Since 1970s  
|            |                   |                                            |      | Sopheak Yeng, Young Min Koo  
|            |                   |                                            |      | Inha University, Korea |
|            |                   |                                            | P8-9 | A Study on Conversion of Public Cultural Facilities to Shelters in Disasters  
|            |                   |                                            |      | Takekazu Miyamoto, Takayuki Kumasawa  
|            |                   |                                            |      | Ibaraki University, Japan |
|            |                   |                                            | P8-10 | Medical Community on the Railway - Research on Pneumoconiosis Mobile Medical Community of Mining Area  
|            |                   |                                            |      | Honoda Liu, Shanshan Zhang, Yuzhou Ma, Yue Wu  
|            |                   |                                            |      | Harbin Institute of Technology, China |
| 13:30~15:30| Luge Hall (1F), Alpensia Convention Center | Youngsuk Kim (Konkuk University, Korea) | **U4 Urban Planning and Design**                                          |
|            |                   |                                            | U4-1 | Research on the Change in the Shop Configuration in Shopping Streets and Merchants’ Consciousness by Removal of the Enclosed Arcade  
|            |                   |                                            |      | Yongwon Park, Koji Itami, Takashi Yokota  
|            |                   |                                            |      | Osaka University, Japan |
|            |                   |                                            | U4-2 | A Study on Planning Elements to Restore Sungkyunkwan Historical Identity  
|            |                   |                                            |      | Junlong Lian, Narse Lee, Donyun Kim  
|            |                   |                                            |      | Sungkyunkwan University, China |
|            |                   |                                            | U4-3 | Analysis of Factors Affecting the Choice of Slow Traffic in New Urban Area Based on Decision Tree Method  
|            |                   |                                            |      | Hongyu Wang  
|            |                   |                                            |      | Cardiff University, United Kingdom |
|            |                   |                                            | U4-4 | Study on Creating Theatrical Space from Street Space  
|            |                   |                                            |      | Kenjiro Matsuura  
|            |                   |                                            |      | Chiba University, Japan |

13:30~15:30
ACADEMIC SESSIONS _Oral Presentaion

U4-5  The Research on Use Preference of Urban Parks of Cold Cities in the Winter-Taking Shenyang Park as an Example
Wan Wang, Lingling Zhang, Pengyu Shan
Harbin Institute of Technology, China

U4-6  Eco-system and Green Infrastructure Research in Cold Regions, China
Qing Yuan, Ran Guo
Harbin Institute of Technology, China

U4-7  Urban Sculpture Planning System in China: A Path Towards Sustainable Development of Urban Sculptures?
Zhe Liu, Shanghong Ai
Southeast University, China

U4-8  A Study of Integrated Urban Management Model of Garden City Policy in Singapore
Mamiko Fujijama, Toshikazu Ishida
Tohoku University, Japan

U4-9  Impact of Microclimate on Human in a Small Outdoor Space of Winter City
Qing Yuan, Biwei Wang, Hong Leng
Harbin Institute of Technology, China

U4-10 Landscape Renovation Strategies of Industrial Wasteland Based on Syntax of Landscape: Taking Harbin as an Example
Hong Jiang, Long Shao
Harbin Institute of Technology, China

13:30~15:30  Bobsleigh Hall (1F), Alpensia Convention Center

Chair  Youngcheol Kang (Yonsei University, Korea)

CM1  Construction Eng. & Management

CM1-1  Construction System of Thailand
Fuuka Takahashi, Hiroto Shina, Kazuya Shide
Shibaura Institute of Technology, Japan

CM1-2  Systematic Analysis of Contingency System and Application in Domestic Public Construction Project - A Owner Perspective –
Seonghoo Lee, Hyun-Soo Lee, Moonseo Park, Inseok Yoon
Seoul National University, Korea

CM1-3  A Critical Review of the Extrusion-based 3D Construction Printing (3DCP) Technology in the Construction Industry
Jinho Ahn, Jongjin Park, HanjongJun
Hanyang University, Korea

CM1-4  Assumption of Indoor Noise Occurrence in Apartment According to Residents’ Life Pattern for Application for Effective Measures of Floor Impact Sound Reduction
Seungwook Cho, Moonseo Park, Hyun-Soo Lee, Jongwook Cho, Minjea Sun
Seoul National University, Korea

CM1-5  Life Extension Repair Method for Existing Facilities - Case Study on Building Reduction for Existing School Building -
Kenji Hirai, Sanggung Yi, Yukio Komatsu
Waseda Research Institute for Science and Engineering, Japan

CM1-6  Safety Accident and Cause Classification Focusing on Modular Construction Process
Gisak Jeong, Hyun-soo Lee, Moonseo Park, Hosang Hyun
Seoul National University, Korea

CM1-7  A Development of Mobile Application for Progress Management of Apartment
Jongsoo Cho, Sanggyoon Chin, Suhoon Chung, Raeun Lee
Sungkyunkwan University, Korea

CM1-8  Process Consistency and Performance in the Claim Management Process
Wonkyoung Seo, Youngcheol Kang
Yonsei University, Korea

13:30~15:30  Auditorium (1F), Alpensia Convention Center

Chair  Jinwook Kim (Osaka University, Japan)

S2  Structural Engineering

S2-1  A Study on the Vibration Characteristics of Flexible Building Structures
Miho Yamanaka, Toshiaki Fujimoto, Ryoko Mazuno, Shunsuke Kawachi
Nihon University, Japan
S2-2  Floor Vibration Tests and Economic Evaluations of the Actual Building with iFLASH System
Min Jae Park, Beoul Yi Kim, Yun Qi Tian, Young K. Ju
Korea University, Korea

S2-3  Mechanical Behavior of Hysteresis Dampers Using Bent steel Plates for Base-isolated Structures
Yuki Hatanaka, Susumu Kuwahara, Fumiho Tamamura, Ryouta Tobari, Tomohiro Kinoshita
Osaka University, Japan

S2-4  Maximum Response Prediction of Base-isolated Structure with Steel Dampers Having Slip-type Restoring Force Characteristics
Jinwoo Kim, Susumu Kuwahara, Shogo Kamase, Ryota Tobari, Tomohiro Kinoshita
Osaka University, Japan

S2-5  Machine Learning Methods Used to Determine Deformation of Structural Members
Seok Jae Heo, Sang Hyun Lee
Dankook University, Korea

S2-6  Development of Design Equations for the Local buckling Strength on Octagonal Tubular Section Members
Tomoki Kobashi, Kikuo Ikarashi, Nobutaka Shimizu
Nippon Steel & Sumitomo Metal, Japan

S2-7  Optimal Structural Design Model for Flat Plate Slab
Sang-Quen Bang, Jiewoo Choi, Dayo Yun, Hyoseon Park
Yonsei University, Korea

S2-8  Estimation of Charpy Values for Steel Welded Connections at High Temperature and After Heating and Cooling Processes
Kai Ye, Fuminobu Ozaki
Nagoya University, Japan

S2-9  Minimum Yield Shear Force Coefficient of Hysteretic Dampers in Coupled Shear Wall Buildings
Bahador Bagheri, Seung Hoon Shin, Sang Hoon Oh
Pusan National University, Korea

S2-10 Collapse Behavior and Analysis of Stone Retaining Masonry's Damage in Kumamoto Castle During the 2016 Kumamoto Earthquake
Reo Tsunekawa, Toshikazu Ikemoto, Masakatsu Miyajima, Takao Hashimoto
Kanazawa University, Japan

H5-7  Study on The Spatial Pattern of Haikou Qilou - Taking Qilou Architecture in Zhongshan Road as an Example
Xinlei Zhuang, Chong Zhao, Ying Zhang
Fuzhou University, China

H5-8  Management of Knowledge as an Urban Preservation Tool in Japan Rural Areas
Jon Alvarez Fernandez
Waseda University, Japan

Chair  Sangmin Ahn (Kure College, Japan)
ACADEMIC SESSIONS_Oral Presentation

16:00~18:00  Daegwallyeong Room 2(1F), Alpensia Convention Center

Chair Fang Zhang (Suzhou University of Science and Technology, China)

P9 Architectural Planning and Design

P9-1 Balance Between Collision and Integration, Transformation Strategies of Urban Abandoned Industrial Area with Translation of Industrial Memory
Fang Zhang, Xi Zhou
Suzhou University of Science and Technology, China

P9-2 Challenges of the Spontaneous Gentrification Process of the Old Town of Marrakesh, Case Study of the Neighborhood Units Surrounding the Dead End Streets
Imane Benelkadi, Suguru Mori, Re Nomura
Hokkaido University, Japan

P9-3 A Study on Reconstructing Abandoned Urban Infrastructure Space based on Memory and Analogue
Yeseul Lee, Youngmin Koo
Inha University, Korea

P9-4 A Study on Recycling of Industrial Heritage in Yeongdeungpo Industrial Area - Focused on Corresponding to Contextual Changes around the Area of Dae Sun flour Mill -
Sik Min, Young Min Koo
Inha University, Korea

P9-5 A Study on Recreating Urban Context through Reorganizing the Border Conditions in Collision City
Nayeon Kim, Youngmin Koo
Inha University, Korea

P9-6 A Study on a Restoration of the Relations within a City through Applying Aldo Van Eyck's Concept of 'In-Between'
Misun Sung, Youngmin Koo
Inha University, Korea

P9-7 A Study on the Urban Regeneration over the Small Museum of Renovation
Hosung Won, Heekeun Kim, Youngho Yeo
Dongeui University, Korea

P9-8 A Study on the Necessity for Temporary Housing Development - A Case Study on Container Utilization in Busan, Ulsan, and Gyungnam Area
Hosung Won, Hyeonjeong Yang
Dongeui University, Korea

P9-9 Rethinking Urban Regeneration from a point of view in Transplantation Concept
Kwang Hyun Park, Young Min Koo
Inha University, Korea

P9-10 A Comparative Study on the Law of Construction Safety Sign Color Standards between 4 Countries
Ye Eun Jang, June-Seong Yi, Hyunbin Kang, Minyoung Hong
Ewha Womans University, Korea

16:00~18:00  Pyeongchang Hall 1(1F), Alpensia Convention Center

Chair Chungyeon Won (Korea University, Korea)

P10 Architectural Planning and Design

P10-1 Metamorphosis of Culturally Significant Restaurant Architecture: The Case of Kagurazaka and Nihombashi in Tokyo, Japan
Kanoko Tomita, Kaon Ko
Tokyo University of Science, Japan
P10-2 Design Parameters for High-Rise, High-Density Urban Blocks: A Comparative Analysis of Design Guidelines and Regulations
Chungyeon Won
Korea University, Korea

P10-3 The Development Trend of Public Sports Venues in Contemporary China with the Integration of Sports and Recreation
Lingjing Li, Liuhua Li, Hao Zhang
Harbin Institute of Technology, China

P10-4 A Study on the Evolution of Chinese Rural Residence in the Area of South of Yangtze River: Taking Mr. Ni’s Family Cluster in the Rural Area of Shanghai as Case Study
Wei Zhang
Shanghai University, China

P10-5 The Japanese Cooperative Jutaku and its Western Counterparts
Rei Shiraishi, Jennifer Duynse Barenstein, Bruce Judd, Shunsuke Yokoyama, Kenichi Tanoue
Kyushu University, Japan

P10-6 Urban Transformation of Pyongyang; Understanding the City Through Microdistrict
Dongwoo Yim
Hongik University, Korea

P10-7 Between-in Landscape: A Multiple Mode of Construction and Natural Resources in Contemporary Chinese Villages
Weiwei Yang
Southeast University, China

P10-8 KISEKAE HOUSE Communication Generation with Environment and Neighbors
Yo Uehara, Tomoko Uno, Junko Mommoto, Shushi Sugura, Kesiue Inomata, Aya Yamaguchi, Shigeyuki Okazaki
Mukogawa Women’s University, Japan

P10-9 Entrance Design of Resort Hotels in the Northern Part of Okinawa, Japan
Yu Zhang, Yue Fan, Jie Wu
Dalian University of Technology, China

P11-1 A Study on School Design and Planning in Hampshire, UK
Kaname Yanagisawa, Eitaro Kobayashi
Chiba University, Japan

P11-2 Study on the Transition of the Planning for Public Library in Japan
Misuzu Haga, Haruka Tsukuda, Yasuaki Ohoda
Tohoku University, Japan

P11-3 Study on Street Effluence and Spontaneous Variation in Lilong-TIANZIFANG, Shanghai
Xinpeng Wang, Kai Fang, Lin Chen, Nobuaki Furuya
Waseda University, Japan

P11-4 A Study on a Construction of Integrated Transportation Platform
Ji Woon Lim, Youngmin Koo
Inha University, Korea

P11-5 A study on Classroom Planning and Space Design for Active learning in American Schools
Eitaro Kobayashi, Kaname Yanagisawa
Chiba University, Japan

P11-6 Spatial Mapping of User Affection toward Building Geometries
Sunwoo Chang, Wonhyeok Dong, Hanjong Jun
Hanyang University, Korea

P11-7 Generative Design Using Christopher Alexander’s Fifteen Rules and Vernacular Traditions
Jonathan Hans Yoas Shotang
Parahyangan Catholic University, Indonesia

P11-8 The Architectural Planning of Culture Facility Complex in Japan
Xu Geng
Tokyo Institute of Technology, Japan
# ACADEMIC SESSIONS _Oral Presentation_

| P11-9 | The Effect of Plan Configuration on Human Comfort Level based on the Electroencephalogram Analysis  
- Focusing on the Types of One-Room Unit Plan for Single-Person Household -  
Jeeyeon Myung, Byeonghyeok Lim, Hanjong Jun  
Hanyang University, Korea |
| P11-10 | Development Process and Factors of Floating Architecture  
Changho Moon  
Kunsan National University, Korea |
| P11-11 | A Study on Facility Supply from the Withdrawal Process of Care-Needing Elderly Facilities in Sanin Region and Mountainous Areas  
-A Case Study of in Yamaguchi Prefecture-  
Genshiro Takahashi, Tomoya Teratani, Sachiko Mishima, Shoken Koh, Akira Ushijima  
Yamaguchi University, Japan |

**16:00~18:00**  
Pyeongchang Hall 3(1F), Alpensia Convention Center  
Chair: Sadahisa Kato (Okayama University, Japan)  

## US Urban Planning and Design

**US-1** The Mitigation of Temperature by the Green Space: A Case Study of SHINTOSHIN District, NAHA City, OKINAWA Prefecture  
Moeka Ueno, Hiroko Ono  
Ryukyu University, Japan  

**US-2** Future Land Use Planning Based on Ecological Planning  
Remon Kanai, Rui Sasaki, Takahiro Tanaka  
Hiroshima University, Japan  

**US-3** Linking Site-scale Projects to City-scale Green Infrastructure Strategies  
Sadahisa Kato, Takamori Fukuzaka, Yukiko Katagiri  
Okayama University, Japan  

**US-4** A Study on the Community Hub for Mothers in a Small Provincial City  
Sayaka Fujii, Takazumi Tanaka  
University of Tsukuba, Japan  

**US-5** Study on Improvement Method of Community Base for the Compact City  
Yudai Tazoe, Shinji Ikaruga, Takeshi Kobayashi  
Yamaguchi University, Japan  

**US-6** A Study on Waterfront Activation Plan through the Experience of Planning Connectivity in Walsh Bay Regeneration  
Chaeeun Kwak, Sanghyun Lee, Kumjin Lee  
Incheon National University, Korea  

**US-7** Revitalization Method of City Hall with the Relationship and Main Street for Urban Revitalization  
Junichi Yano, Junichi Yano, Sinji Ikaruga, Takeshi Kobayashi, Junwhan Song  
Yamaguchi University, Japan  

**US-8** Proposal of a System to Support Conserving Vacant Houses  
Hideyuki Kobayashi  
Ministry of Land, Infrastructure, Transport and Tourism, Japan  

**US-9** Coexistence of Industrial Production and Urban Living - A Case Study on a Tokyo’s Neighborhood  
Kevin Canopeci, Jorge Almazan  
Keio University, Japan  

**US-10** Preservation of and Disaster Prevention for Alley Spaces in Kagurazaka District, Tokyo: Analysis of Dead End Street Forms and Accessibility of Surrounding Buildings  
Yuki Kanamaru, Momoyo Gota  
Tokyo University of Science, Japan  

**US-11** Study on Visual Features of Public-Art Installation Space in the Coast Area of Seto Inland Sea  
Chiaki Nagata, Shinji Ikaruga, Takeshi Kobayashi  
Yamaguchi University, Japan
16:00~18:00  Luge Hall(1F), Alpensia Convention Center

**Chair** Kyung Hoon Lee (Korea University, Korea)

### MU2 Multidisciplinary Collaborations

#### MU2-1 Study on Building Knowledge Sharing Systems in Tropical Regions
Rumiko Sasaki, Masayuki Ichinose
Tokyo Metropolitan University, Japan

Closing lifecycle in the west of Kerkrade
Rui Jian, Yu Dong
China Architecture Design & Research Group, China

#### MU2-3 Comparison of Preference and Perceived Local Identity of House Style by Architects and Laypeople
Thairat Nanta
King Mongkut Institute of Technology Ladkrabang, Thailand

#### MU2-4 Multidisciplinary Collaboration in University-Linked Continuing Care Retirement Community (CCRC) in Nagara
Shota Taima, Takeshi Ueno, Kenjiro Matsuura, Toru Mitani, Yuta Iwasaki, Masamichi Hanazato, Masayuki Suzuki
Chiba University, Japan

#### MU2-5 A Study on The Alliance and The Translation Toward "Living on Higher Place": Focused on Actors of High-rise Apartments in Gwangju
Kyoung Hee Lee, Uoosang Yoo
Chonnam National University, Korea

#### MU2-6 Bio-Environmental Adaptive Building Envelope
Sunbin Lee
Newcastle University, United Kingdom

#### MU2-7 Study on Hardness of Judo floor Regarding Safety and Playability
Kyunghak Bae, Naoya Minagawa, Hitotoshi Nakanishi, Takeshi Yokoi, Sookyung Choi, Takamasa Mikami
Tokyo Institute of Technology, Japan

#### MU2-8 Architectural Affects - Emotional Response to Features Shaping the Space
Miroslav Tadić, Christian Wallraven, Kyung Hoon Lee
Korea University, Korea

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16:00~18:00  Bobsleigh Hall(1F), Alpensia Convention Center

**Chair** Jae Hun Jo (Inha University, Korea)

### E2 Environmental Technologies

#### E2-1 Field Investigation on Occupants’ Comfort Considering the Effects of Glass Facades in Office Buildings in Southeast Asia
Kittiwoot Chaloeytoy, Masayuki Ichinose, Rumiko Sasaki
Tokyo Metropolitan University, Japan

#### E2-2 The Research of Productive Process of Glass and Frame Used in Building Envelope in Vietnam and Thailand
Fumi Naota, Rumiko Sasaki, Masayuki Ichinose
Tokyo Metropolitan University, Japan

#### E2-3 Regression Analysis of Worker’s Health, Work Performance and Various Environmental Indicators based on WEB Questionnaire
Yuko Abe, Yasuyuki Shiraishi, Toshiharu Ikaga
The University of Kitakyushu, Japan

#### E2-4 Evaluation of Pedestrian Wind Environment Based on Field Observation with Smartphone Anemometer in Ogi Island, Japan
Kento Minami, Tsubasa Okaze, Norihisa Kawashima, Koichi Yasuda
Tokyo Institute of Technology, Japan

#### E2-5 Research on the Effect of the Aircraft Noise Pollution on the Noise Environment in the Classrooms of Okinawa due to the MV-22 Aircraft
Takeshi Takashki
University of the Ryukyus, Japan

#### E2-6 Research of River Flood Caused by Concentrated Heavy Rain Using Hydrological Analysis Geographic Information System
Kazuki Kohama, Hiroko Ono
University of Ryukyus, Japan
ACADEMIC SESSIONS_Oral Presentaion

E2-7  Verification of Calculation Equation of Spaciousness Using Omnidirectional VR  
Fengyun Cui, Kotaro Hirate  
The University of Tokyo, Japan

E2-8  A Study on Performance of Sign in Commercial Facility by Route Search  
Marina Nishikawa, Miki Kozaki, Kotaro Hirate  
The University of Tokyo, Japan

16:00~18:00  Auditorium(1F), Alpensia Convention Center

Chair  Sooyeon Seo (Korea National University of Transportation, Korea)

S3  Structural Engineering

S3-1  Effect of Drying Shrinkage of Concrete on Long-term Performance of RC Slabs  
Toshihiko Yamamoto  
Daido University, Japan

S3-2  Topology Optimization of Shell Structures Using Improved ESO  
Koichi Kamiyama, Shinya Matsumoto, Daiji Fujii  
The Kindai University, Japan

S3-3  An Experimental Study on RC Frame with H-beams and a Wall Type Friction Damper  
Hyung June Jeon, Chang sik Choi  
Hanyang University, Korea

S3-4  Seismic Reinforcement of Existing Timber Architecture Using Permeable Structural Wall Part 2 Modeling and Result of Analysis of Timber-acrylic Wall  
Kohata Kawashima, Kaoi Fujita, Hiromi Sato, Masahiro Watabe, Toshiaki Sato, Tsuyoshi Seike, Masao Koizumi  
The University of Tokyo, Japan

S3-5  Study on Structural Form Creation Using HMPS Method and CA-IESO Method  
Yuto Otsubo, Shinya Matsumoto, Daiji Fujii  
The Kindai University, Japan

S3-6  Seismic Shear Evaluation of Reinforced Concrete Columns  
Muhammad Haroon, Dong-Ik Shin, Jung Yoon Lee,  
Sungkyunkwan University, Korea

S3-7  Technological Form: An Evolutional Diagram of Shell Architecture in the Context of Architectural History  
Mingyu Sun, Yanlai Zhang  
Xiamen University, China

S3-8  Shear Performance of RC Beam with Integrated Shear Reinforcement  
Donghee Son, Changsik Choi, Namkyoung Min, Dongwoo Lee  
Hanyang University, Korea

S3-9  Study About the Rigidity Evaluation of the Shear Walls at the Micro Deformation  
Toshi Sato, Kyoaki Mori, Hideyuki Takao, Nobuyoshi Michiba, Keisuke Kagawa, Yoshimitsu Chashi  
Horieida Co.Ltd., Japan

S3-10  Structural Design of the New National Stadium in Japan  
Masaki Murase, Osamu Hosozawa, Isamu Nakakawaji, Taro Misutani, Shinichiro Kawamoto, Takahiro Kanno  
Taisei Corporation, Japan
## ACADEMIC SESSIONS_Poster Presentation

**Date & Time:** 10:00-19:00, October 24(Thu) ~ 25(Thu)  
**Venue:** Meadow Hall & Lobby(2F), Alpensia Convention Center

### PH - Architectural History and Theory

| PH 1-1 | Analysis of the Architecture of Sino-tibetan Combination Temple Hall in Mongolia Area under the Multicultural Integration  
|        | Rigen Mo, Xiaoyan Liu  
|        | Harbin Institute of Technology, China |
| PH 1-2 | The Architecture of Altan Khan—the Construction and Structure of Yeke Zuu  
|        | Wei Chen  
|        | University of Pennsylvania, United States |
| PH 1-3 | The Influence of the Tibetan Temple on the City Layout  
|        | Tingting Niu, Wenmei Ji  
|        | Anhui Jianzhu University, China |
| PH 1-4 | The Disseminate of Japanese Modernism in Asia - Focusing on Tange Kenzo and Takamasa Yoshizaka's Works in Postwar Taiwan  
|        | Sheng-Chieh Ko  
|        | Kyoto University, Japan |
| PH 1-5 | Encounter with ‘Mingei (Folk-Crafts) in Charlotte Perriand  
|        | Shoichiro Sendai  
|        | Hiroshima University, Japan |
| PH 1-6 | Spatial Evolution of Xizhimen Station in Beijing-Zhangjiakou Railway and Its Surrounding Urban Space  
|        | Wenjing Luo, Feng Wang  
|        | University of Chinese Academy of Sciences, China |
| PH 1-7 | Design Methods of Scenes and Experiences in Korean Traditional Temples  
|        | Hyun Kim, Chaesun Yoon  
|        | Ewha Womans University, Korea |
| PH 1-8 | Namdaemun Park Planning in Seoul under the Control of Japanese Governor in the late 1930's  
|        | Sanjun Aho, Junichiro Ishida  
|        | Kure College, Japan |
| PH 1-9 | Investigating "Standard-ness" and "Uniqueness" of the Crystal Palace by Examining its Contemporary Propagation, the Royal Mint Sydney  
|        | Yosuke Komiyama  
|        | Kyoto University, Japan |
| PH 1-10 | The Declaration of Architectural Memetics: A Systematic Interpretation of Architectural Complexity and Evolutionary Mechanism  
|        | Qiang Yao, Long Bin  
|        | Chongqing University, China |
| PH 1-11 | Townscape Evaluation of Oya-stone Buildings in the Urban Area of Utsunomiya City, Tochigi Prefecture, Japan  
|        | Motosumi Kobayashi, Aiko Yasumori  
|        | Utsunomiya University, Japan |
| PH 1-12 | The Architectural Research for Elucidating the Essential Components to be Preserved as the "Cultural landscape" of Okuuchi Srea in Ehime Prefecture  
|        | Konatsu Yamasa, Miyako Kamatoko, Kohei Takaoka  
|        | Kagawa University, Japan |
| PH 1-13 | A Study on the Spatial Evolution and the Stage Technological Innovation of Chinese and Japanese Traditional Theater Since Modern Times  
|        | Longpeng Cui, Yibo Huang  
|        | Xi'an University, China |
| PH 1-14 | The Connection of the "Scenic Architecture" with Villagrán’s Modern Theory  
|        | Ana Silvia Aguilera Vieyra  
|        | Hiroshima University, Japan |
| PH 1-15 | The Symbiosis Strategy of the Olympic Legacy and the Railway Heritage Under the Background of the Post Olympic Era - The Beijing Zhangjiakou Railway  
|        | Xiaoyan Zhang, Jianwei Yan  
|        | Tiajin University, China |
| PH 1-16 | The Convergence of Ecological Technology and Contemporary Building Skin's Multidimensional Phenomenon  
|        | Rui Zhao, Songfu Liu  
|        | Harbin Institute of Technology, China |
| PH 1-17 | A Study on Post-industrial Pattern Language of Industrial Heritage in Translation and Driving Factors  
|        | Hao Wu, Junping He  
|        | Kunming University, China |
ACADEMIC SESSIONS_Poster Presentation

PH 1-18 Byzantine Architecture: Within or Beyond the Boundaries of the Nation State
Ryo Higuchi
Tokyo Institute of Technology, Japan

PH 1-19 Resignation and Expansion of the Dujiangyan Irrigation System’s World Cultural Heritage Significance
Hongtao Liu, Xingya Yuan
Southwest Jiaotong University, China

PH 1-20 The Confluence of the Mural Painting and the Building by José Villagrá
Ana Silvia Aguilera Vieyra, Shoichiro Sendai
Hiroshima University, Japan

PP - Architectural Planning and Design

PP 1-1 Research on Space Design Strategy of the Arena for E-sports Based on Analysis of User Demand
Junwen Liu, Deming Liu, Jie Liang
Harbin Institute of Technology, China

PP 1-2 Research on Visual Quality of E-sports Venues
Junwen Liu, Demin Liu, Chuyue He, Zhaojie Cui
Harbin Institute of Technology, China

PP 1-3 The Compromise Between Regional Preference and the Generalization Trend of Buildings in Super Connectivity Age
Shuyu Liu, Si Zhang
Harbin Institute of Technology, China

PP 1-4 Geometric Composition in the Plan and Elevation of “Falling Water”
Hiroshi Minami, Masahiro Takasago
Wakayama University, Japan

PP 1-5 The Development Process and Trend on Entrance Field Organization Pattern of China Railway Station - Towards an Informationize and Universal Mode of Station-city Intergation
Yizheng Dai, Guangyiu Lu
Southeast University, China

PP 1-6 Performance-based Design of Terminal Space Based on Multi-agent Systems - Take Lanzhou Zhongchuan Airport T3 Terminal as an Example
Yizheng Dai, Guangping Qi
Southeast University, China

PP 1-7 Design Development of Cigamea Waterfall in National Park Halimun Salak Mountain Bogor
Atie Emawati, Siti Jubaid, Andrianto Kusumoarto, Ryan Hidayat
University of Indonesia, Indonesia

PP 1-8 Assessing the Visual Landscape Elements of Outdoor Environment in Large-scale Commercial Buildings in Winter Cities
Heng Leng, Ziyuan Luo, Qing Yuan
Harbin Institute of Technology, China

PP 1-9 Research on Inclusive Design of Waiting Room in Healthcare
Si Zhang, Guangtian Zou, Shuyu Liu
Harbin Institute of Technology, China

PP 1-10 Experimental Effects of In-Office Physical Activity on Workplace Productivity
Kumiko Seki, Toshihiko Ikaga, Koji Tanaka, Hiroaki Takai, Kitoishi Tanaka
Tokyo University, Japan

PP 1-11 Communication and Media: Media Properties of Architecture and Media Dissemination Value
Lin He, Zhang Xiangwei, Liu Jun
Tianjin University, China

PP 1-12 Study on Built Environment Design for High School in China Aimed at Safety Promotion
Yu Zhang, Keke Li
Harbin Institute of Technology, China

PP 1-13 Changes in Spatial Characteristics of Ting and Tianjing in Minnan House and Its Living Style in Fujian, China
Satoshi Boda, Shin-ya Nishimura, Yinqi Fei, Wenhao Ji, Wenjie Lin, Zhou Bo
Niigata University, Japan

PP 1-14 Research on Actual Situation of Interaction Between Residents Before and After Municipal Housing Complex Rebuilding - Case Study of Takaizumi Housing Complex in Omuta City, Fukuoka Prefecture -
Haruka Miyazaki, Tomoya Noguchi, Hitomi Fujimura, Tetsu Masaki
Ariake College, Japan

PP 1-15 A Study on the Relationship Between Facility Form and End-of-life Care in Special Nursing Home for the Elderly
Shuhei Ogawa, Syohken Koh
Yamaguchi University, Japan
PP 1-16  Research on the Cold Region Architecture Department Building’s Renovation Strategies in the Informatization Context: Case Study of HIT
Ligang Shi, Xu Du
Harbin Institute of Technology, China

PP 1-17  A Study on the Environmental Characteristics that Cause Lost Child through the Field Investigation in Urban Entertainment Center
Sooyouna Choi, Jaepil Choi, Saewon Yoo, Gyu Bin Han
Seoul National University, Korea

PP 1-18  Research on Design Strategy of Sports Commercial Complex
Zixuan Jia
Southwest Jiaotong University, China

PP 1-19  Experience of Recreation Space for Recreation of Mining Industrial Heritage
Zhi Yang, Wenhui Hu
Dalian University of Technology, China

PP 1-20  Nationwide Survey of Management Methods and Residents of Group Homes for People with Disabilities
Hiroki Ozu, Yui Matsuda
The University of Tokyo, Japan

PP 1-21  Research on the Integrated Design of Aboveground and Underground Space of Rail Transit Complex Under the Green Concept
Keqian Luo, Zhongwei Shen
Southwest Jiaotong University, China

PP 1-22  Research on Division and Space Elements of Cities Focusing on the Toden Arakawa Line
Eichi Sugiyama, Hiroki Suzuki
Graduate School of Chiba University, Japan

PP 1-23  Research on the Evaluation of External Space of Commercial Buildings-Based on Psychophysical Method - Taking Chengdu Chunxu Business District as an Example
Menghan Lu, Fei Fu
Southwest Jiaotong University, China

PP 1-24  Study on Spatial Composition in Korean Villa Garden
Bingxun Sun, Hiroki Suzuki
Chiba University, Japan

PP 1-25  Analysis of Settlement Space and Architectural Characteristics of Rural Residential In Mountainous area of Northern Tianjin
Naike Wang, Yu Zhang, Li Dong
Dalian University of Technology, China

PP 1-26  Study for Architectural Design of Stairs to Increase Artistic Value of Public Buildings
Jingjing Li, Benchen Fu, Zhengwei Zhang, Yu Zhang
Harbin Institute of Technology, China

PP 1-27  A Case Study of the Transformation And Reuse Of An Idle Factory In Deyang
Zhanxian Chen, Zhu Zhou
Southwest Jiaotong University, China

PP 1-28  On the Utilization of Rural Industrial Heritage in the Context of Rural Tourism
Kai Fei, Fei Fu
Southwest Jiaotong University, China

PP 1-29  A Study on the Public Space of the Sharehouse for the Single Person
Zixuan Jia
Southwest Jiaotong University, China

PP 1-30  The Relevance of Normative Urban Design Principles on Morphology and Typological Transformations in Per-Urban Areas of Gaborone
Kazunobu Minami
University of Botswana, Botswana

PP 1-31  Analysis of Contemporary Japanese Residential Houses with Gable Roof
Kazunobu Minami
Meiji University, Japan

PP 1-32  Research on Four Strategies for Interventional Design for Buildings and Place: An Example of Louna in Guizhou China
Ting Sun, Anqi Wang, Yunshan Huang
Tianjin University, China

PP 1-33  Adaptable In/flight for Aging Society
Kazunobu Minami
Shibaura Institute of Technology, Japan
**A New Method: Improve Carbonation Resistance of Cement Mortar by Combining γ-C2S**

Zhengxin Chen, Hanseung Lee
Hanyang University, China
PM 1-2  Alkali-activated Cement and Concrete Materials for Sustainable Building: An Overview
D.M. Kim, J.G. Jang
Incheon National University, Korea

PM 1-3  A Study on Evaluating Critical Chloride in Concrete Using Embeddable Solid Electrode
Dong Jin Park, Subbiah Karthick, Hangeung Lee
Hanyang University, Korea

PM 1-4  The Tectonic of Library – Exploration of the Unconventional Use of Materials
Jiao Xin
Southwest Jiao Tong University, China

PM 1-5  An Experimental Study on the Evaluation of Critical Chloride Contents for Corrosion of Rebar by Concrete Type
Jang-hyun Park, Hangeung Lee, Cheol Park
Hanyang University, Korea

PM 1-6  Development and Characterization of New Phase Change Material Incorporation Technique into Cement Paste
Haemin Song, Se Yoon Yoon, Jae Eun Oh
Ulsan National Institute of Science and Technology, Korea

PM 1-7  An Experimental Study of the Permeability Evaluation After Ozone Treatment of Metal Spray Coating
Jinho Park, Hangeung Lee
Hanyang University, Korea

PM 1-8  Study on Direct Reuse of Solid Waste from Ceramic Industry in Buildings - Taking Peng Town as an Example
Juan Zhang, Xuhuai Dong
North China University of Technology, China

PM 1-9  An Experimental Study on the Foaming Properties of Lightweight Aggregate by The Firing Temperature and Retention Time of Expansive Shale
Donghwan Mun, Hangeung Lee
Hanyang University, Korea

PCM - Construction Eng. & Management

PCM 1-1  Computer Vision and BIM Applied Construction Progress Management
Juhee Rho, Hyun-Soo Lee, Moonseo Park
Seoul National University, Korea

PCM 1-2  A Basic Study on the Analysis of Factors Affecting the Price Decision of Apartment Housing in Korea
Hwan Pyo Park
Korea Institute of Civil Engineering and Building Technology, Korea

PCM 1-3  What Factors Motivate Construction Workers to Work Safely?
Hyeokmin Kwon, Youngcheol Kang
Yonsei University, Korea

PCM 1-4  Factors Influencing the Constructability of Temporary Work in the Design Phase of Building Construction
Taehoon Kim, Kyuman Cho
Chosun University, Korea

PCM 1-5  Development of Estimation method for Housing Remodeling Cost through Risk Analysis by Design Elements
Jun Kim, Hee-Sung Cha
Apu University, Korea

PCM 1-6  A Foundational Study on Process Management Improvement Measures Based on Work Achievement Indicator
Donguk Yoo, Eunwha Hong, Myungjin Chae, Jaeyoul Chun
Dankook University, Korea

PE - Environmental Technologies

PE 1-1  Net Zero-energy Building, SEDC in Korea : Design, Operation and Monitoring
Hyun-Hwa Lee, Sunwoo Lee, Gyeongseop Hwang
Seoul Energy Dream Center, Korea

PE 1-2  Energy Consumption Survey of Elementary School Without VAC in Suburban Area
Haruno Ishikawa
Shizuoka Institute of Science and Technology, Japan

PE 1-3  Which is More Effective to Mitigate Heat Island, Water Retentive Pavements or Highly Reflective Pavements? - Proposal of an Analysis Method to Calculate Pavement Surface Temperature Considering Rainfall -
Shuhei Togashi, Takuya Suzuki, Motofumi Manu
Kanazawa Institute of Technology, Japan
ACADEMIC SESSIONS_Poster Presentation

PE 1-4 The Importance Analysis of Housing Maintenance Techniques for the Building Energy Performance Improvement
Sang Min An, Sung Woo Kim, Ji-yeon Kang, Hyung-Geun Kim
Korea Research Institute of Eco-Environmental Architecture, Korea

PE 1-5 Design Factors of Building Service for Long-life Housing According to Flexible Plan Scenarios
Gooyoo Hong, Suk-Won Lee, Ji-yeon Kang, Hyung-Geun Kim
Seoul Housing & Communities Corporation, Korea

PE 1-6 Indoor Air Quality and Health - Chemiless Town Project Phase 3 -
Norimichi Suzuki, Hiroko Nakaoka, Yoshitake Nakayama, Kazunari Takaya, Kayo Tsumura, Masamichi Hanazato, Emiko Todaka, Shinji Tanaka, Kazuhito Matsuishi, Ryotaro Iwayama, Chisato Mori
Chiba University, Japan

PE 1-7 Mental Healthcare Effects of Indoor Plants on Office Workers, Part 1: Outline of Demonstration Experiment using Some Foliage Plants
Kahori Genjo, Hiroshi Matsumoto, Takaoki Nakano
Nagasaki University, Japan

PE 1-8 Mental Healthcare Effects of Indoor Plants on Office Workers, Part 2: Indoor environmental quality, Psychological/physiological Responses, Productivity
Takaoki Nakano, Kahori Genjo, Hiroshi Matsumoto, Takaoki Nakano
Nagasaki University, Japan

PE 1-9 The Influence of Air Velocity and Air Temperatures on MRT Values Measured from Black Globe Thermometer
Dongseok Lee, Hyunsook Shin, Kyunghwan Ji, Jaehun Jo
Inha University, Korea

PMU - Multidisciplinary Collaborations

PMU 1-1 Research on The Adaptability for Elderly of Traditional Street Waterfront Space Based on the Micro-climate Thermal Comfort - Study on Dongzikou Town in Chengdu
Ming Ma, Fei Fu
Southwest Jiao Tong University, China

PMU 1-2 Survey on Building Form and Living Conditions of Ethnic Rural Settlement in China
Qi Mu, Yongliang Bai
Dalian Minzu University, Italy

PMU 1-3 The Main Elements Analysis For The Architectural Photography
Zhanqian Chen, Zhu Zhou
Southwest Jiaotong University, China

PMU 1-4 Study on Repairing Methods in the Reduction Work of Existing Building: Case Study on Repair Work of Aomori Prefecture Government Building
Chihiro Imai, Sangjun Yi
Kanto Gakuin University, Japan

PMU 1-5 An Exploratory study on BIM-based Fire-response System Framework
Suhun Jung, Heesung Cha
Ajou University, Korea

PMU 1-6 Automatic Quantitative Evaluation System for Apartment Complex Remodeling
Seunghun Koo, Cheolhong Kim, Ji-yeon Kang, Minho Lee, Jinyoung Kim
Ajou University, Korea

PMU 1-7 Heating Budget Based Automated Thermostat System
Seunghun Koo, Mina Park, Hongki Shin, Jinyoung Kim
Ajou University, Korea

PS - Structural Engineering

PS 1-1 Important Elements in the Design Method of Rigid Wooden Frames with Structural Plywood
Yoshio Sakamaki, Nobuyoshi Michiba, Keisuke Kagawa, Mayu Nakayama, Seiji Takanashi, Yoshimitsu Ohashi
Houseplus Corporation, Inc., Japan

PS 1-2 Experimental Study on Structural Performance of Traditional Wooden House Without Mud Walls
Keisuke Kagawa, Mayu Nakayama, Nobuyoshi Michiba, Yoshio Sakamaki, Hideyuki Maekawa, Naohito Kawai, Kyosuke Mukaibo, Hideharu Shimizu, Yoshimitsu Ohashi
Houseplus Architectural Inspection, Inc., Japan
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<td>PS 1-3</td>
<td>Experimental Study on Evaluation of Structural Performance of a Newly Built Timber House Has the Japanese Traditional Detail Nohiyoshi Michiba, Masu Nakayama, Keriuke Kagawa, Yoshihiko Sakamaki, Hideyuki Makiwara, Naoko Kawai, Yoshimitsu Ohashin, Shinichiro Matsudome Houseplus Architectural Inspection, Inc., Japan</td>
</tr>
<tr>
<td>PS 1-4</td>
<td>The Flexural Behavior of Steel Tube Filled with Steel Fiber-reinforced Cement Composites Incorporating Recycled Materials Hyundoo Yun, Seokjoon Jang, Sunwoong Kim, Jongwon Lee, Wanshin Park, Youngil Jang, Sunwoo Kim Chungnam National University, Korea</td>
</tr>
<tr>
<td>PS 1-5</td>
<td>A Study about Structural Performance of the New Shaped T-stub Type Damage Controlled System Hanryn Park, Sanghoon Oh Seismic Simulation Test Center at Pusan National University, Korea</td>
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<td>PS 1-6</td>
<td>Cyclic Test of Moment Connection with Composite Beam Composed of H-section and U-section Young Ju Kim, Sang Hoon Oh, Hong Sik Ryu, Jin Won Kim Korea Institute of Structural Engineering &amp; Consulting, Korea</td>
</tr>
<tr>
<td>PS 1-7</td>
<td>Design Procedure for Seismic Retrofit Structure with Hysteretic Dampers Based on Energy-based Design Seung Hoon Shin, Bahador Bagheri, Sang Hoon Oh Pusan National University, Korea</td>
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<tr>
<td>PS 1-8</td>
<td>Evaluating Aerodynamic Characteristics and Wind Response of a RwIn Building Using POD Bubnyar Kim, Hyoseon Park, Tse K.T Yonsei University, Korea</td>
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<tr>
<td>PS 1-9</td>
<td>Structural Behavior of RC Beams Subjected to Combined Shear Force, Bending and Torsional Moments Jeong Hyun Moon, Dong-Ik Shin, Ha roam Muhammad, Jung-Yoon Lee Sungkyunkwan University, Korea</td>
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<td>PS 1-10</td>
<td>Seismic Retrofit of School Building with Steel Damper System Jung Uk Kim, Dong-Reon Kim, Jurng Jae Yee Dong-A University, Korea</td>
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<tr>
<td>PS 1-11</td>
<td>The Effect of Fire-Insulation Thickness and Edge Distance of NSM-FRP for Improving Fire-Resistance Capacity Soo-yeon Seo, Jung-won Kim Korea National University of Transportation, Korea</td>
</tr>
<tr>
<td>PS 1-12</td>
<td>Seismic Design Loads of Water Tanks: A Comparison of Standards and Dynamic Analysis Results Ji Hyeon Oh, Eun Rim Baek, Hyoung-suk Choi, Sang Ho Lee Pusan national University, Korea</td>
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<tr>
<td>PU 1-1</td>
<td>Spatial Strategy of EXPO Planning as Hegemonic Projects -Case Studies of Registered EXPO Theme Since 1990s- Kyung-Jin Lee, Jae-Yong Chung Hongik University, Korea</td>
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<td>PU 1-2</td>
<td>Study on Utilization Policy of Empty Land with High Real Estate Value Miki Suemoto, Kenjiro Matsuura Chiba University, Japan</td>
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<tr>
<td>PU 1-3</td>
<td>A Study on the Spatial Composition of Proximate Work and Living Space, in the Pottery Industry Area in Dharavi, Mumbai, India Kosuke Hashimoto, Ryichi Asahara, Misao Kawai The University of Shiga Prefecture, Japan</td>
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<tr>
<td>PU 1-4</td>
<td>Study on the Utilization of Urban Environmental Climate Maps Focusing on the Heat Island Factors - Workshop for Environmentally-conscious Urban Planning in the Kanazawa City Area - Hiromi Otoshi, Kazuya Tsuji, Motofumi Marui Kanazawa Institute of Technology, Japan</td>
</tr>
<tr>
<td>PU 1-5</td>
<td>The Study of the Urban Safety Network for Disaster in Iquique, Chile Lachabere Arenas Sebastian, Fujyama Maminiko, Ishida Toshikazu Tohoku University, Japan</td>
</tr>
<tr>
<td>PU 1-6</td>
<td>Beijing Type III Earthquake Emergency Shelter Evaluation and Optimal Strategy Le Wang, Minghua Jin, Xinning Liu North China University of Technology, China</td>
</tr>
<tr>
<td>PU 1-7</td>
<td>Restoration and Characteristic Construction of Rural Landscape in Northeast China Je Meng, Qing Yuan Harbin Institute of Technology, China</td>
</tr>
<tr>
<td>PU 1-8</td>
<td>Study on the Aesthetic of Urban Interactive Landscape in Contemporary Europe Based on Environment-Behavior Studies Gao Shan, Liu Songfu Harbin Institute of Technology, China</td>
</tr>
<tr>
<td>Session</td>
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<tr>
<td>PU 1-9</td>
<td>Organic Integration of Architecture and Landscape - With the Planning and Design of Creative Community in Songbei District of Harbin as an Example</td>
</tr>
<tr>
<td>PU 1-10</td>
<td>A Study on Landscape Style and Features of Settlements in Northeast China</td>
</tr>
<tr>
<td>PU 1-11</td>
<td>A Study on Renovation of Historical Green Infrastructure in Tokyo, Japan</td>
</tr>
<tr>
<td>PU 1-12</td>
<td>Research on Current Situation and Optimized Strategy of Waterfront in Harbin Influenced by the Historical Development of City</td>
</tr>
<tr>
<td>PU 1-13</td>
<td>A Study on the Improvement of the Underpass in the Overpass for the Activation of Pedestrian</td>
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<tr>
<td>PU 1-14</td>
<td>Comparison of Location Optimization Plan in Japan</td>
</tr>
<tr>
<td>PU 1-15</td>
<td>Study on the Barrier Free Environment in the Outer Space of Beijing West Station</td>
</tr>
<tr>
<td>PU 1-16</td>
<td>Post-Occupancy Evaluation: The Harbin Opera House's External Space</td>
</tr>
<tr>
<td>PU 1-17</td>
<td>Study on Exterior Space Design of Urban Historical Commercial District — Sino-Ocean Taikoo Li in Daci Temple District Chengdu</td>
</tr>
<tr>
<td>PU 1-18</td>
<td>A Study on Distribution of Temples and its Characteristics in Jorabagan (Kolkata, India)</td>
</tr>
<tr>
<td>PU 1-19</td>
<td>European Barrier Free Design and Enlightenment</td>
</tr>
<tr>
<td>PU 1-20</td>
<td>Railway Heritage Renewal and Reuse Based on Urban Renaissance: A Case Study on Renaissance Projects of Round-the-city Railway in Tianjin</td>
</tr>
<tr>
<td>PU 1-21</td>
<td>Importance Performance Analysis for Smart City Implementation in Surabaya City, Indonesia</td>
</tr>
</tbody>
</table>
## Young Architects' Design Sessions

### Exhibition

**Date & Time**: 10:00-19:00, October 24(Wed) ~ 25(Thu)

**Venue**: Meadow Hall(2F), Alpensia Convention Center

| YADE 1. | Commercial+Residence: A Mixed Use Building  
Shital Babu Acharya, Gaurav Neupane (Tokyo Institute of Technology, Japan)  
babushital@gmail.com |
| YADE 2. | Architecture in the age of Artificial Intelligence - An Architecture of Emotions, Experiences, Senses and Memories  
Darya Ahmed (Tokohoku University, Japan)  
darya_ahmed04@yahoo.com |
| YADE 3. | Gusan-dong, Library Village  
Jaewon Choi (FLO Architects, Korea)  
jwchoi@floarchitects.kr, cjwoz@naver.com |
| YADE 4. | Ecological Hotel Design in the Tropics Areas  
Jing Chen (Xi'an University of Architecture & Technology, China)  
511628491@qq.com |
| YADE 5. | Urban Frame  
Nak Hoon Choi (GA Department Architects & Associates Corp, Korea)  
nhchoi81@gmail.com |
Ruiqiang chen (China University of Petroleum, China)  
594656630@qq.com |
| YADE 7. | Memory of Hii River - A Docking Space for a Sailing Boat Designed by Tree-Structure-  
Chisato Eguchi (Mukogawa Women's University, Japan)  
pi_kokko0330@yahoo.co.jp |
| YADE 8. | The Nanning East Railway Station  
Anting Gao (CTIC General Institute of Architectural Design and Research Co., Ltd., China)  
248233129@qq.com |
| YADE 9. | Jujiang Cultural Arts Center  
Qinghui Gao (Southeast University, China)  
101005688@seu.edu.cn |
| YADE 10. | 4th Phase Addition of Tsinghua University Library  
Mengzhen Han, Zhaoye Guo, Yulong Liu, Xiaochi Cheng, Yang Wan, Hongmei Yao, Weiwei Jiang  
(hanmz@tsinghua.edu.cn) |
| YADE 11. | The Architecture wears PVC PIPEs-Asan Agricultural Machinery Storage Warehouse-  
Kuk Hyun Ku (Atelier Maroo, Korea)  
korea4999@naver.com |
| YADE 12. | Napul Napul Remodeling  
Young Chul Jang, Sook Hee Chun (Wise Architecture, Korea)  
sookhee.chun@gmail.com |
| YADE 13. | Napul Napul Remodeling  
Young Chul Jang, Sook Hee Chun (Wise Architecture, Korea)  
sookhee.chun@gmail.com |
| YADE 14. | Seorimyeonga  
Youngjin Kang, Woohyun Kang (Archihoid WxY, Korea)  
young@archihood.com |
| YADE 15. | K2 Tower  
Jinman Jo (Jojiman Architects, Korea)  
office@jo-jinman.com |
| YADE 16. | Culture + Play Ground  
Jong-Moo Kim (Idea Image Institute of Architects Co., Ltd., Korea)  
jmkim@iiia.kr |
| YADE 17. | Venice Biennale Floating Pavilion  
Seoseok Kim (SKA Architects, Korea)  
ssooseok.kim@skaas.com |
| YADE 18. | Double Time  
Mi hee Kim, Seok hong Go (SOSU ARCHITECTS, Korea)  
mlkim.sosu@gmail.com |
| YADE 19. | Tablets Archive + Gallery in Haruna  
Yosuke Komiya (Kyoto University, Japan)  
yosukekomyama@gmail.com |
| YADE 20. | The Architecture wears PVC PIPEs-Asan Agricultural Machinery Storage Warehouse-  
Kuk Hyun Ku (Atelier Maroo, Korea)  
korea4999@naver.com |
| YADE 21. | Alternative Housing towards Collectivity  
Eunkyung Lee (EMA architects & associates, Korea)  
eunkyung.lee.a@gmail.com |
| YADE 22. | Grandpa’s Cool House  
Kichul Lee (Architect-K, Korea)  
kichul@architect-k.com |
| YADE 23. | Y-Project  
Seung-june Lee (RNK DESIGN, Korea)  
rnk7558@gmail.com |
| YADE 24. | Red Chimney  
Seung Teak Lee, Mi Jung Lim (stpmj Architecture, Korea)  
mj@stpmj.com |
| YADE 25. | KEC Building Renovation  
Wonsuk Lee (W Architects, Korea)  
space756@gmail.com |
| YADE 26. | Shanghai Museum East  
Li Li (Tongji University, China)  
lixh57@163.com |
| YADE 27. | Mountain Area Tourist Toilets in Zibo - Ecological Technology + Dam Environment  
Yuanyi Liu (Zibo Urban Planning and Design Institute, China)  
416389613@qq.com |
| YADE 28. | House in Hibikino-New Wooden House Project  
Tetsu Masaki (National Institute of Technology, Ariake College, Japan)  
masaki@ariake-nct.ac.jp |
| YADE 29. | My Home in 2035  
Mamiko Miyahara (Saga University, Japan)  
mmkmyhr@gmail.com |
| YADE 30. | Cori. at Commune 2nd  
Ko Nakamura (Mosaic Design, Japan)  
ko.nakamura.com@gmail.com |
| YADE 31. | Kangnam Gu, Seoul, Korea 2017  
Sang Hoon Oh (Dankook University, Korea)  
sh.oh@dankook.ac.kr |
| YADE 32. | Sejong Culture Garden from the Old Town to the Cultural Hub  
Heechan Park (Studio Heech, Korea)  
heechan.p@studioheech.com |
| YADE 33. | Witch's Power  
Sung Hye Park (Landscape Outline, Korea)  
clubcure@gmail.com |
| YADE 34. | Mianzhu History Museum  
Jiahua Ping (ARTS Group Co., Ltd, China)  
25024850@qq.com |
| YADE 35. | Confluence in Chinese Church  
Zhang Qu (Tongji University, China)  
 QTIE@163.COM |
| YADE 36. | Seoul International District Information Center  
Youngja Roh (LIM Architects, Korea)  
yroh@limarchitects.com |
| YADE 37. | Lingang New City Exhibition Hall, Jingjiang Folk art museum and China Floor Museum  
Zhaoxu Rong (Jiangsu Zhongrui Eastchina Architectural Design Institute Co.,Ltd, China)  
259311792@qq.com |
| YADE 38. | Administrative House  
Ryutarou Saito (University of Tokyo, Japan)  
saito772@gmail.com |
| YADE 39. | One Room Houses (House in Otsuka and others)  
Taishin Shiozaki, Saeco Kobayashi (Atelierco, Tokyo Tech, Japan)  
shiozaki.t.a@m.titech.ac.jp |
| YADE 40. | Inverted Quadrangular Pyramid in Ryogoku  
Mikio Tai (Shizuoka Institute of Science and Technology, Japan)  
m-tai@gb3.so-net.ne.jp |
Mio Tsuneyama, Fuminori Nousaku (Tokyo University of Science, Japan)  
mtsuneyama@studio-mrm.com |
| YADE 42. | Chengdu PCG Community Center,Yangzhou Yucai School, Baima Village Works  
Wei Wang (Field Architect Office/SW jiaotong Unviersity, China)  
wangweijiao@fao-fao.com |
| YADE 43. | Building Dignity : Advocative Architectural Heritage Conservation  
Kentaro Yagi, Keitaro Usui (Hiroshima University, Japan)  
yagik@hiroshima-u.ac.jp |
| YADE 44. | WiryArtists Studio  
Soo-in Yang (Lifethings, Korea)  
life@lifethings.un |
| YADE 45. | EEgress House  
Dongwoo Yim (Hongik University, Korea)  
dyim@praud.info |
| YADE 46. | Wildflower Village  
Daewoong Yu (SIWOL ARCHITECTS, Korea)  
db總統@hanmail.net |
### Pecha Kucha

**Date & Time**: 16:00-18:00, October 25(Thu)
**Venue**: Meadow Hall(2F), Alpensia Convention Center

<table>
<thead>
<tr>
<th>Chair</th>
<th>Heechan Park (Director, Studio Heech, Korea)</th>
</tr>
</thead>
</table>
| YADS 1. | Egress House  
Dongwoo Yim  
Assistant Professor, Hongik University, Korea |
| YADS 2. | One Room Houses (House in Otsuka and others)  
Taishin Shiozaki / Saeco Kobayashi  
Principal Architect/ Associate Professor, Atelierco, Tokyo Tech, Japan |
| YADS 3. | Cori. at Commune 2nd  
Ko Nakamura  
Principal Architect, Mosaic Design, Japan |
| YADS 4. | Inverted Quadrangular Pyramid in Ryogoku  
Mikio Tai  
Associate Professor, Shizuoka Institute of Science and Technology, Japan |
| YADS 5. | Brera Pedestrian Bridge  
Hwan Kim, Paolo Bortolazzo  
Facade Consultant, Front Inc., Hong Kong |
| YADS 6. | Tablets Archive + Gallery in Haruna  
Yosuke Komiyama  
Assistant Professor, Kyoto University, Japan |
| YADS 7. | My Home in 2035  
Mamiko Miyahara  
Associate Professor, Saga University, Japan |
| YADS 8. | Lingang New City Exhibition Hall, Jingjiang Folk Art Museum and China Floor Museum  
Zhaohui Rong  
Chairman, Jiangsu Zhongrui Eastchina Architectural Design Institute Co., Ltd., China |

**Break (10 Minutes)**

| YADS 9. | 4th Phase Addition of Tsinghua University Library  
Megzhen Han  
Associate Professor, Tsinghua University, China |
Kentaro Yagi, Keitaro Usui  
Associate Professor, Hiroshima University, Japan |
| YADS 11. | Sejong Culture Garden from the Old Town to the Cultural Hub  
Heechan Park  
Director, Studio Heech, Korea |
| YADS 12. | House in Hibikino-New Wooden House Project-  
Tetsu Masaki  
Assistant Professor, National Institute of Technology, Ariake College, Japan |
Mio Tsuneyama, Fuminori Nousaku  
Associate Professor, Tokyo University of Science, Japan |
| YADS 14. | Memory of Hii River - A Docking Space for a Sailing Boat Designed by Tree-Structure-  
Chisato Eguchi  
Graduate Student, Mukogawa Women's University, Japan |
| YADS 15. | Venice Biennale Floating Pavilion  
Sooseok Kim  
Principal, SKA Architects, Korea |
Alpensia Resort

**Concert Hall**
- Opening Ceremony
- Keynote Speeches

**Holiday in Hotel**
- Lunch (Mont Blance Restaurant)
- Executive Meeting (Mont Blance Restaurant)

**Alpensia Convention Center**
- Registration
- Academic Sessions
- Poster Sessions
- Young Architect's Design Sessions(Pecha Kucha) & Exhibition
- Welcome Reception
- Farewell Dinner
- Lunch (Garden Terrace)
- Preview Room
- Secretariat
SYMPOSIUM INFORMATION

Official Language
The official language of the symposium is English.

Registration Desk
All participants are requested to visit the registration desk upon arrival at the venue.

<table>
<thead>
<tr>
<th>Date</th>
<th>Operation Hours</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 23(Tue)</td>
<td>14:00 ~ 19:00</td>
<td>Lobby(1F) Alpensia Convention Center</td>
</tr>
<tr>
<td>October 24(Wed)-25(Thu)</td>
<td>08:00 ~ 19:00</td>
<td></td>
</tr>
</tbody>
</table>

Secretariat
Secretariat will be operated during the Symposium. For any help and request, please come to the Secretariat Room.

<table>
<thead>
<tr>
<th>Date</th>
<th>Operation Hours</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 23(Tue)</td>
<td>14:00 ~ 19:00</td>
<td>Alps Room(2F) Alpensia Convention Center</td>
</tr>
<tr>
<td>October 24(Wed)-25(Thu)</td>
<td>08:00 ~ 19:00</td>
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</tbody>
</table>

Preview Room
All speakers must check their presentation material at the preview room before the session.

<table>
<thead>
<tr>
<th>Date</th>
<th>Operation Hours</th>
<th>Venue</th>
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</thead>
<tbody>
<tr>
<td>October 23(Tue)</td>
<td>14:00 ~ 19:00</td>
<td>Asia Room (2F) Alpensia Convention Center</td>
</tr>
<tr>
<td>October 24(Wed)-25(Thu)</td>
<td>08:00 ~ 19:00</td>
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</tbody>
</table>

Internet Access
All the participants may use internet for free at the Alpensia Convention Center.

Message Board
The Secretariat of ISAIA 2018 will put up notice for any change in the programs and messages for each event on the message board. Delegates may also leave message for their friends or colleagues.

Lunch
Lunch will be served.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Place &amp; Meue</th>
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</thead>
<tbody>
<tr>
<td>October 24(Wed)</td>
<td>12:30~14:00</td>
<td>Monblanc Restaurant(1F), Holiday Inn Hotel _ Bibimbap</td>
</tr>
<tr>
<td>October 25(Thu)</td>
<td>12:00~13:30</td>
<td>Garden Terrace Restaurant(1F), Alpensia Convention Center _ Bulgogi</td>
</tr>
</tbody>
</table>

Shuttle Bus Service
Free shuttle buses between Jinbu Station and Alpensia Resort will be operated from October 23 to October 25, 2018.
### Shuttle Bus Schedule

**Route: Jinbu Station (Departure) → Hyeonggye Bus Terminal → Alpensia Resort (Arrival)**

<table>
<thead>
<tr>
<th>Operation Date</th>
<th>KTX Arrival Time at Jinbu Station</th>
<th>Departure Venue &amp; Time</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>October 23 (Tue)</td>
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<td>12:40</td>
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<td>Registration 14:00~</td>
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<td>08:47</td>
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<td>Opening Ceremony Oct. 24, 10:00~10:30</td>
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</table>

※ Boarding Place at Jinbu Station: Near Exit (There will be a signboard to guide)
※ Boarding Place at Hoenggye Bus Terminal: Near Exit (There will be a signboard to guide)
※ Jinbu Station → Alpensia Resort (Take about 35 minutes by shuttle bus)
   Jinbu Station → Hoenggye Bus Terminal (Take 15 minutes), Hoenggye Bus Terminal → Alpensia Resort (Take 20 minutes)

**Route: Alpensia Resort (Departure) → Hyeonggye Bus Terminal → Jinbu Station (Arrival)**

<table>
<thead>
<tr>
<th>Operation Date</th>
<th>KTX Departure Time from Jinbu Station</th>
<th>Departure Venue &amp; Time</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>October 24 (Wed)~25 (Thu)</td>
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</table>

※ Shuttle Bus Boarding Place at Alpensia Resort: Convention Center Main Gate
OFFICIAL & SOCIAL PROGRAM

Opening Ceremony
Date & Time  10:00~10:30, October 24(Wed)
Venue       Concert Hall(1F), Alpensia Resort
Opening Ceremony will officially declare the commencement of ISAIA 2018 at the Concert Hall, Alpensia Resort

Welcome Reception
Date & Time  19:00~21:00, October 24(Wed)
Venue       Lake Hall(2F), Alpensia Convention Center
Dress Code   Casual
Participants can enjoy the warm welcome of the organizing committee as well as food and drinks. It will provide an occasion to enhance old friendships and establish new ones with colleagues from around the world.

Farewell Dinner
Date & Time  19:00~21:00, October 25(Thu)
Venue       Forest Hall & Lake Hall(2F), Alpensia Convention Center
Dress Code   Semi Formal
Participants, who want to join, please come and enjoy being a memorable experience during the symposium. Dance and music will be performed. It will be the last opportunity to be keeping the friendship among participants from other counties. And, the award ceremony will be followed by dinner, please congratulate the awardees.
GUIDELINES FOR PRESENTATION

Guidelines for Oral Presentation

All presenters are asked to observe their presentation time strictly as assigned. Presenters are requested to be in their symposium room at least 10 min. before the start of the session.

Presentation Material Submission

• All speakers are required to bring their presentation file(s) in Microsoft PowerPoint file format on USB to the Preview Room (Asia Room, 2F).
• It is strongly recommended that all presenters check in at the Preview Room at least 2 hours before the session to upload and review/update their presentation materials.
• Video files: To ensure the best condition of your presentation, please create your video files as WMA or AVI.

Audio-Visual Equipment

• The session room will be equipped with a master computer, which shall be used for all presentations.
• If you need audio equipment, please contact Preview Room in advance.
• Please note that we do not prefer Macintosh environment.
• We do not recommend using your own laptop computer for presentation to avoid problems with computer projector compatibility and to save time that would otherwise be needed for changing connection.

Guidelines for Poster Presentation

Poster Setup

The organizing committee will provide with a series of poster display easel boards. Posters should be affixed to the poster easel boards using a spray in designated area. We will prepare spray and boards. After attaching the poster, please mount in your easel board on time.

Display Hours & Venue

<table>
<thead>
<tr>
<th>Classification</th>
<th>Date</th>
<th>Time</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set-up</td>
<td>October 23(Tue)</td>
<td>20:00–23:00</td>
<td>Meadow Hall &amp; Lobby (2F)</td>
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<td>October 24(Wed)</td>
<td>08:00–10:00</td>
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<td>Display</td>
<td>October 24(Wed)--25(Thu)</td>
<td>10:00–19:00</td>
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<tr>
<td>Take-down</td>
<td>October 25(Thu)</td>
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</table>

Poster Removal

All posters should be removed. The Organizing Committee is not responsible for loss or damage to those posters which are not removed by authors within the times of removal as informed. Posters not removed will be destroyed.
TOUR PROGRAM

Date & Time  10:00~17:00, October 26(Fri)
Tour Fee  US $80
Meeting Point  Registration Desk

* Tour Fee includes a lunch, private transfer, English-speaking guide, admissions as marked on the itinerary.

Itinerary: Meet a tour guide at the registration desk of ISAIA 2018 – Depart for Pyeongchang – Hasra Art World – Seongyojang – Pyeongchang Olympic Stadium – Pyeongchang Olympic Ski Jump Tower - Back to the venue

Hasra Art World - Hasra Art World is a complex art space with a modern art gallery, Pinocchio art gallery, sculpture park, museum hotel, restaurant and cafe facing the open sea. The Museum of Contemporary Art facing the sea is an art space in the nature, where you can enjoy various exhibitions and moving kinetic works. The Hasura Museum Hotel has panoramic ocean view rooms. Each room is designed by artist Choi Okyoung and is decorated with different designs and sculptures. The Hasla Sea Cafe is a beautiful cafe where you can enjoy Hasera’s roasted Sanya coffee in the space where the emerald blue sea is spread out. Healing meals in front of the sea, in the Hasla Restaurant are all based on organic farming, and are carefully cooked with vegetables and vegetables grown directly in the Hasla’s garden.

Seongyojang - The Seongyojang House is one of the grandest traditional Korean houses, dating back to about three hundred years. Korea Broadcasting Corporation selected Korea’s TOP 10 in the 20th century in 2000, it was selected as the best traditional house in Korea Seongyojang, which shows the old style of anchae (main building), guesthouse, separate building, and pavilion in front of the house, it shows special house of the Joseon Dynasty with characteristics of an open southern style house and closed northern style houses to prevent cold. It is a beautiful traditional house that has preserved its original shape for 300 years as an upscale house with 99 squares. It has been highlighted as a cultural tourism resource representing Gangneung city culture in harmony with the surrounding nature.

Pyeongchang Olympic Stadium - Tour three main stadiums of the 2018 Olympic Winter Game

Gangneung Hockey Centre
A stadium for thrilling ice hockey games with three stories above ground and accommodates 10,000 people.

Gangneung Ice Arena
A stadium for a short track speed skating and figure skating games and equipped with state-of-the-art ice manufacturing system.

Gangnueng Oval
A stadium for speed skating with 400m double track and consists of two basement floors and two ground floors.

Pyeongchang Olympic Ski Jump Tower
A ski jump available for all seasons and take a monorail to the observation deck to watch the sky jump slope and scenery.
USEFUL INFORMATION

Time Difference
Korean time is nine hours ahead of Universal Coordinated Time / Greenwich Mean Time (UCT/GMT+9hours).

Climate & Weather
Korea has four distinct seasons; spring, summer, fall and winter. Especially, October is the best month to visit Korea. You may enjoy the beautiful Korean fall including clear blue sky and mild weather. During the month of October, the temperature in Gangwon-do Province average 15.8°C. For more information, please visit Korea Meteorological Administration (http://www.kma.go.kr/eng/index.jsp).

Currency & Foreign Exchange
Korea’s official monetary unit is the won (KRW). Korean monetary units are 10, 50, 100 and 500 coins, 1,000, 5,000, 10,000 and 50,000 notes. For higher denominations, negotiable cashier’s checks are used. USD 1 is equivalent to about KRW 1,129 as of Oct 2018. Major currencies and traveler’s checks can be exchanged into Korean won at the airport, hotels and at all Korean banks.

Insurance and Liability
The Organizing Committee will not be responsible for medical expenses, accidents or losses or unexpected damage to property belonging to symposium participants, either during or as a result of the symposium or during all the tours and events. Participants are strongly advised to arrange their own insurance for the health and accidents, lost luggage and trip cancellation.

Credit Card
Foreign credit cards, including Diners Club, Visa, American Express and MasterCard are widely accepted at major hotels, shops and restaurants in major cities. However, you should always check with individual shop and restaurant to make sure your card is accepted. Also, check with your credit card company before hand for detail of merchant acceptability and other services which may be available.

Useful Phone Numbers
Emergency
If you should find yourself in an emergency situation, dial 112 for police 119 for fire/rescue (through most operators speak only Korean). Hotel staff can also call a doctor or an ambulance. Travel Phone Emergency Interpretation Service (1330) provides 24-hours emergency service for foreigners, and a bilingual operator will offer you detailed information on English assistance or travel information.

BBB Service
Interpretation Service provided for tourists via BBB mobile phone. Dial the number below and press your language preference to connect to a BBB Number of your language.
+How to use the service: Dial 1588-5644 + your language number
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Business Hours

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October 23(Tue)~26(Fri), 2018
Pyeongchang Alpensia, Gangwon, Korea

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