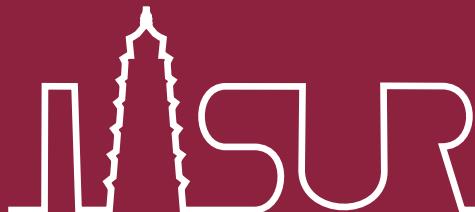


# PROGRAM

—THE 2ND INTERNATIONAL CONFERENCE OF IASUR



Xi'an, China

## INTERNATIONAL CONFERENCE OF **GREEN BUILDING AND SMART CITY**

March 28-30, 2019

Organizing Committee of  
The Second Conference of IASUR  
[www.iasur.org](http://www.iasur.org)

#### **ORGANIZER**

Division of Civil, Hydraulic and Architectural Engineering (CAE)  
International Alliance for Sustainable Urbanization and Regeneration (IASUR)

#### **CO-ORGANIZER**

State Key Laboratory of Green Building in Western China, Xi'an University of Architecture and Technology  
Sustainable Urban Architectural Environment in Asia, CAMPUS ASIA pilot program, Kyushu University

#### **CO-ORGANIZER FOR SPECIAL SESSION**

China Academy of Building Research  
Bei Jing International Science & Technology Cooperation Base for Green Building





# Welcome to the IASUR Conference

In the 21st century, the rapid urbanization, high density growth, urban sprawl and slums, as well as increasing informality in urban activities, are still the major challenges for most Asian cities and regions. In response to these issues which aimed to establish how engineering, including civil engineering, environmental engineering, architecture and urban planning, can make significant contributions to the resolution of the increasingly severe problems caused by global warming, environmental pollution and urban vulnerability, and to the realization of sustainable cities and regions in Asia, we came to recognize the importance of promoting new paradigms and methodologies. At the same time we recognized the limitation of individual activities in research and education to solve complicated environmental issues.

It is our biggest pleasure that CAE and IASUR, together with State Key Laboratory of Green Building in Western China and SUAE Asia, will host the second international conference in March 29-31, 2019 in Xi'an, China. The main theme of this conference is “Green Building and Smart City”. Throughout the conference, we will steer the directionality for sustainable urban regeneration or urbanization so that it is repositioned within the scope of, and the capacity for, urban and regional sustainability through a process of continuous international collaboration. We have great expectations that the alliance will make a significant contribution in further developing and raising the academic status of research and education for the future of Asian cities and regions.

## **Atsushi DEGUCHI**

Chair, Organizing Committee of the First Conference of International Alliance for Sustainable Urbanization and Regeneration  
Professor, Department of Socio-Cultural Environmental Studies, Graduate School of Frontier Sciences, The University of Tokyo

## **Jiaping LIU**

Director, State Key Laboratory of Green Building in Western China  
Academician, Professor, Department of Architecture, Xi'an University of Architecture and Technology

# GENERAL INFORMATION

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# Organization And Management

### ORGANIZER

Division of Civil, Hydraulic and Architectural Engineering (CAE)

International Alliance for Sustainable Urbanization and Regeneration (IASUR)

### CO-ORGANIZER

State Key Laboratory of Green Building in Western China, Xi'an University of Architecture and Technology  
Sustainable Urban Architectural Environment in Asia, CAMPUS ASIA pilot program, Kyushu University

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Bei Jing International Science & Technology Cooperation Base for Green Building

### Chairman

#### **Atsushi DEGUCHI**

President, International Alliance for Sustainable Urbanization and Regeneration

Professor, Graduate School of Frontier Sciences, The University of Tokyo

#### **Jiaping LIU**

Director, State Key Laboratory of Green Building in Western China

Academician, Professor, Department of Architecture, Xi'an University of Architecture and Technology

### Organizing Committee

#### **Atsushi DEGUCHI**

President, International Alliance for Sustainable Urbanization and Regeneration

Professor, Graduate School of Frontier Sciences, The University of Tokyo

#### **Yasunori AKASHI**

Professor, Department of Architecture, The University of Tokyo

#### **Hiroto TAKAGUCHI**

Professor, Department of Architecture, Waseda University

#### **Shichen ZHAO**

Professor, Department of Architecture and Urban Design, Kyushu University

#### **Jiaping LIU**

Director, State Key Laboratory of Green Building in Western China

Academician, Professor, Department of Architecture, Xi'an University of Architecture and Technology

## **GENERAL INFORMATION**

### **Yi WANG**

Deputy Director, State Key Laboratory of Green Building in Western China

Professor, School of Building Services Science and Engineering, Xi'an University of Architecture and Technology

### **Norihisa SHIMA**

Associate Professor, Department of Regional Development Studies, Toyo University

### **Akito MURAYAMA**

Associate Professor, Department of Urban Engineering, The University of Tokyo

## **Venues for the Conference**

Xi'an University of Architecture and Technology (XAUAT), Xi'an, China

No.13, Yanta Road, Xi'an, Shaanxi, 710055, P.R.China

**Registretion Desks:** Entrance Hall on 1/F of New Century Grand Hotel

**Guest Rooms:** New Century Grand Hotel and Tianyu Gloria Grand Hotel

**Opening Session / Closing Session:** 1/F Lecture Hall of Engineering Building, XAUAT

### **Session Rooms:**

**Session I / Session IV / Special Session / Session VII / Session IX:**

1/F Lecture Hall, Engineering Building, XAUAT

**Session II / Session V / Session VIII / Session X:**

4/F Lecture Hall, School of Architecture, XAUAT

**Session III / Session VI:**

1/F Lecture Hall, School of Architecture, XAUAT

**Poster Session:** Hallway on 1/F of Engineering Building, XAUAT

## **Accommodation and Dining**

The hotels available for accommodation during the conference are New Century Grand Hotel and Tianyu Gloria Grand Hotel. Please see the Appendix for the details.

### **Breakfast**

Attendants could have buffet breakfast according to their hotels, which are included in the room rate.

New Century Grand Hotel: 1/F Cafeteria of New Century Grand Hotel

Tianyu Gloria Grand Hotel: 3/F Buffet Restaurant of Tianyu Gloria Grand Hotel

## GENERAL INFORMATION

### **Lunch**

3/F of Engineering Building, Xi'an University of Architecture and Technology is the place where the participants have lunch from 29th - 30th March.

### **Dinner**

Attendants could have buffet dinner according to their hotels at 18:00 - 20:00 28th and 30th March.

### **Gala Dinner**

All the attendants will be invited to Gala Dinner at 18:30-20:00 29th March in Multiple Function Hall at Fourth floor of New Century Grand Hotel.

## **Oral Presentations**

The oral presenters are required to send the MS-PowerPoint or Adobe PDF format to Organizing Committee (klgb@xauat.edu.cn) before 27th, March or hand it on USB to conference staff at the registration desk on 28th, March. For those participants who have submitted the files online, reconfirming at the desks are required. Please refer to the Session Program for Oral Presentations for your presentation date and time.

Furthermore, each presentation shall not be exceeding 15 minutes. Before the opening of the sub-session, the presenter needs to check with the Session Chair at the session room, and contact with the Session Chair as early as possible if there is any change of the oral presentation.

## **Poster Presentations**

The poster presenters are required to reconfirm the posters at the registration desk on 28th, March. The poster presenters should forward to the staff in advance if there is any special request on the exhibition. All the posters will be exhibited on 30th, March in the hallway on 1/F of Engineering Building, Xi'an University of Architecture and Technology for open discussions by all attendants during the conference.

## **Group Photographing**

All the delegates are invited to take group photographs at 10:30-11:00 29th, March during the opening session at the entrance of Engineering Building, XAUAT.

## GENERAL INFORMATION

## Registration Fee

## Participant (General)

First Author : RMB 1600

Other Author / Presenter : RMB 1800

### Participant (Student)

First Author : RMB 800

Other Author / Presenter : RMB 900

# Conference Badge

On the registration day, each attendants will be provided the Conference Badge which is required to wear in the whole duration of the conference.

## Contact Information

If there are any requirements, please contact with the Organizing Committee to the following person:

- For Registration, Accommodation, Dining, etc.

Linjie ZHANG Tel. +86 158 2901 8682

- For Session Halls

**Keynote Speech / Special Session:** Songheng WU Tel. +86 187 0293 9927

**Session I / Session IV:** Yang YANG Tel. +86 159 3486 0566

**Session VII / Session IX:** Yan LIU Tel. +86 159 9116 2535

Session II / Session V: Lei WU Tel. +86 180 6661 0306

Session VIII / Session X: Zhifei ZHOU Tel. +86 139 9132 6399

Session III / Session VI: Cong SONG Tel. +86 151 0298 7164

- For Posters

Wenbo WU Tel. +86 137 7246 4321

# CONFERENCE PROGRAM

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## General Program

### Thursday 28 March

**10:00-22:00 Registration**

### Friday 29 March

**09:00-09:30 Opening Session** (1/F Lecture Hall of Engineering Building, XAUAT)

**09:30-12:00 Keynote Speech** (1/F Lecture Hall of Engineering Building, XAUAT)

- 9:30-10:10 Keynote Speech by  
Prof. Atsushi Deguchi (Chair, IASUR Conference Organizing Committee,  
The University of Tokyo)
- 10:10-10:40 Commemorative Photograph and Coffee/Tea Break
- 10:40-12:00 Keynote Speech by  
Prof. Akihito Ozaki (Kyushu University)  
Prof. Yuguo Li (The University of Hong Kong)

### **13:00-17:30 Afternoon Sessions: Oral Presentation**

- 13:00-15:00 Session I (1/F Lecture Hall, Engineering Building, XAUAT)  
Session II (4/F Lecture Hall, School of Architecture, XAUAT)  
Session III (1/F Lecture Hall, School of Architecture, XAUAT)
- 15:30-17:30 Session IV (1/F Lecture Hall, Engineering Building, XAUAT)  
Session V (4/F Lecture Hall, School of Architecture, XAUAT)  
Session VI (1/F Lecture Hall, School of Architecture, XAUAT)

### Saturday 30 March

**09:00-11:00 Special Session “International Assessment Standard for Green Building”**

(1/F Lecture Hall, Engineering Building, XAUAT)

**11:00-12:00 Poster Session** (Hallway of 1/F Lecture Hall, Engineering Building, XAUAT)

### **13:00-17:30 Afternoon Sessions: Oral Presentation**

- 13:00-15:00 Session VII (1/F Lecture Hall, Engineering Building, XAUAT)  
Session VIII (4/F Lecture Hall, School of Architecture, XAUAT)
- 15:30-17:30 Session IX (1/F Lecture Hall, Engineering Building, XAUAT)  
Session X (4/F Lecture Hall, School of Architecture, XAUAT)

**17:30-18:30 Closing Session**

### Sunday 31 March

**Optional Tour**

# CONFERENCE PROGRAM

## Keynote Speech

**9:30-12:00, March 29, 1/F Lecture Hall, Engineering Building, XAUAT**

**Moderator:**

**Shichen ZHAO** (Department of Architecture and Urban Design, Kyushu University)

**Keynote Speech:**

**Atsushi DEGUCHI**

Chair, IASUR Conference Organizing Committee; Professor, The University of Tokyo

*Smart City Approach to Sustainable Urban Development*

**Akihito OZAKI**

Professor, Kyushu University

*Definition of Zero Energy Building and Assessment Tool: Numerical simulation on hygrothermal environment of buildings*

**Yuguo LI**

Professor, The University of Hong Kong

*Wind weakening, heat dome and urban warming*

# SESSION PROGRAM

# SESSION PROGRAM

## Oral Presentations

### Friday 29 March

#### **Session I: 13:30-15:15, 1/F Lecture Hall, Engineering Building, XAUAT**

**Moderator - Yanfeng Liu (Xi'an University of Architecture and Technology)**

**Theme: Green Building 1**

#### **I-1: Melting and Solidification Behavior of Paraffin Embedded in Metal Foam**

Mohamed Moussa El Idi

PhD candidate, Université Paris-Est, CERTES, France

#### **I-2: Experimental and Numerical Investigations on Thermal Properties of Concrete Containing Micro-Encapsulated Phase Change Materials**

Kossi-Mensah Kodjo

PhD, Université Paris-Est, Laboratoire Modélisation et Simulation Multi Échelle, France

#### **I-3: Preparation and Thermal Properties of Form Stable LDPE/ Hexadecane/ SEBS Composite for Thermal Energy Storage.**

Ibtissem Chriaa

PhD student, Université de Sfax, Laboratoire des Matériaux Multifonctionnels et Applications, Tunisia

#### **I-4: PSO-based Self-consumption Microgrid Sizing for Resiliency of Weak Grid Improving**

Marou Garba

PhD student, CERTES Laboratory, University of Paris-Est Creteil, France

#### **I-5: Thermal Performance of the Envelope of Ventilated Industrial Buildings in the Severe Cold and Cold Zones of China**

Xiaojing Meng

Associate Professor, State Key Laboratory of Green Building in Western China, Xi'an University of Architecture and Technology, China

#### **I-6: Experimental Study on the Evaporation of Microbial Droplets**

Xin Liu

Master student, The State Key Laboratory of Green Building in Western China, China

#### **I-7: Bioclimatic Building Design Method with Time and Space Division Based on Human Adaptive Thermal Comfort in Turpan, China**

Liu Yang

Professor, State Key Laboratory of Green Building in Western China, School of Architecture, Xi'an University of Architecture and Technology, China

# SESSION PROGRAM

**Session II: 13:30-15:15, 4/F Lecture Hall, School of Architecture, XAUAT**

**Moderator - Prasanna Divigalpitiya (Kyushu University)**

**Theme: Planning, Design and Engineering for Dynamism of Society 1**

## **II-1: Analysis on the Influence of Hospital Relocation to City Center**

Ryuta Yamamoto

Undergraduate, Department of Architecture, School of Engineering, Kyushu University, Japan

## **II-2: Place Attachment and Sense of Acceptance: International Students's Perception of their New Environment**

Vita F. Ridwan

Doctoral candidate, Departement Civil and Environmental Engineering, Graduate School of Science and Engineering, Ehime University, Japan

## **II-3: A Study on the Process of Planning, Constructing and Educational Program Designing of Dazu Primary School**

Yi Fan

Assistant Professor, Faculty of Human-Environment Studies, Kyushu University, Japan

## **II-4: The Relationship between Fracture and Fall Place in Super-Aged City**

Shujirou Imaeda

Ph. D. course student, Graduate School of Engineering, The University of Tokyo, Japan

## **II-5: Actual Living Condition Surrounding Street Dwellers in Downtown Focusing on Sleeping Place and Support, Case Study in Fukuoka**

Shintaro Ikeda

Undergraduate student, Department of Architecture, School of Engineering, Kyushu University, Japan

## **II-6: Building Ecodistricts in Existing Urban Area: Nishiki 2 Low-Carbon Community Development Project in Japan**

Akito Murayama

Associate Professor, Department of Urban Engineering, School of Engineering, The University of Tokyo, Japan

## **II-7: The "Visual Ecology" Index based on People-oriented Perspective: Green Looking Ratio**

Li Zhen

Master of Engineering, Key Laboratory, Ministry of Science and Technology, Industry and Informatization, Ministry of Science and Technology for Urban and Rural Human Settlements in Cold regions, Department of Architecture, Harbin Institute of Technology, China

## SESSION PROGRAM

**Session III: 13:30-15:15, 1/F Lecture Hall, School of Architecture, XAUAT**

**Moderator - Yasunori Akashi (The University of Tokyo)**

**Theme: Smart City and Environment**

**III-1: A Simulation Approach About The effect Of The Optimization For Distributed Energy Supply Systems In Business Area**

Takahiro Ueno

Ph.D. student, Graduate School of Human-Environment Studies, Kyushu University, Japan

**III-2: Refinement and Application of the Definition of the Medical Service Circle: Taking the comprehensive hospitals of Fukuoka as the research object-**

Feifan Xu

Ph.D. student, Graduate School of Human-Environment Studies, Kyushu University, Japan

**III-3: The Realization of Digitization and Intelligentization of Urban Planning Under the Background of Big Data Era**

Rongjiao Tang

Student, School of Architecture and Design, Southwest Jiaotong University, China

**III-4: Research on Accessibility Mechanism of Underground Pedestrian Network System in Influential Area of Urban Railway Central Station Based on AI Technology**

Yan He

Student, School of Architecture and Design, Southwest Jiaotong University, China

**III-5: The Influence of Street Aspect Ratio and Urban Thermal Storage On Thermal Environment at Scale Model Outdoor Field Measurement**

Guanwen Chen

Postgraduate, School of Atmospheric Sciences, Sun Yat-sen University, China

**III-6: Concentration Characteristics of PM10, PM2.5 and PM1 in Naturally Ventilated Residences in Xi'an during Wintertime**

Huan Wang

Lecturer, School of Building Services Science and Engineering, Xi'an University of Architecture and Technology, China

**III-7: Experimental Study on the Purification Effect of Filter Materials Commonly Used in Chinese Market on Particulates**

Xin Zhang

Student, School of Building Services Science and Engineering, Xi'an University of Architecture and Technology, China

# SESSION PROGRAM

**Session IV: 15:30-17:30, 1/F Lecture Hall, Engineering Building, XAUAT**

**Moderator - Mustapha Karkri (Université Paris-Est)**

**Theme: Green Building 2**

**IV-1: Review on Advanced Building Skin Design Strategy**

Chang Shu

Graduate student, College of Architecture and Urban Planning, Tongji University, Shanghai, China

**IV-2: Research on the Adoption of Green Leases and the Content of Green Lease Contracts in Japan**

Satoshi Inaba

Graduate School of Creative Science and Engineering, Waseda University, Japan

**IV-3: Spread and Effect of Energy-Saving Renovation Due to Green Lease Agreements**

Hiroyuki Hasada

Undergraduate student, Department of Architecture, Faculty of Engineering, The University of Tokyo, Japan

**IV-4: Effect of Subsidy Policies on the Penetration of Green Buildings**

Yuki Ohto

Graduate Student, School of Engineering, The University of Tokyo, Japan

**IV-5: Microstructural Properties of Ternary Concrete of Rice Husk Ash and Fly Ash**

Abdoulie Cham

Graduate Student, Department of Civil Engineering, Tokyo Institute of Technology, Japan

**IV-6: Effect of Cement Stabilization on Properties of Compressed Earth Bricks**

Lei Zhang

Lecturer, School of Civil Engineering and Architecture, Xi'an University of Technology, China

**IV-7: A Summary of Research on Bicycle and Urban Rail Transit Transfer System (B+R) in China**

Hanghua Zhang

Master Candidate, School of Architecture, Tianjin University, China

**IV-8: The Influence of Enclosed Buildings on the Surrounding Microclimate in Cold Campus**

Wu Yimeng

Student, School of Architecture, Qingdao Technological University, China

## SESSION PROGRAM

**Session V: 15:30-17:15, 4/F Lecture Hall, School of Architecture, XAUAT**

**Moderator - Hang Jian (Sun Yat-Sen University)**

**Theme: Planning, Design and Engineering for Dynamism of Society 2**

**V-1: A Study on the Institutional Framework of Suburban Land Subdivision in Cambodia: The Case of Phnom Penh Metropolitan Area**

Sothearoth Phou

Master Course Student, Department of Regional Development Studies, Toyo University, Japan

**V-2: Assessment of Sustainable Development in the Peri-Urban Area: A Case Study of the Greater Cairo Region, Egypt**

Muhammad Salem

PhD student, Graduate School of Human-Environment Studies, Kyushu University, Japan

**V-3: Suburban Land Use Dynamics in the Shrinking Phase of a Megacity: The Tokyo Metropolitan Area as a Case Study**

Taku Nakano

Project Researcher, Graduate School of Frontier Sciences, The University of Tokyo, Japan

**V-4: A Study on Land Development Typology of Shinkansen Station Area**

Siting Chen

Master student, Graduate School of Human-Environment Studies, Kyushu University, Japan

**V-5: "Temporary Places" in Communities Formed by Mobile Retailers: A Case of COOP Associations in Japan**

Yuri Akizuki

Graduate Student, Department of Urban Engineering, School of Engineering, The University of Tokyo, Japan

**V-6: A Comparative Analysis of Legal Responsibilities in the Urban and Rural Planning Regulations of the East and West Cities in China: Taking Qingdao and Urumqi as Examples**

Rong Li-ying

Master student, Urban and Rural Planning, Shandong Jianzhu University, China

**V-7: Research on the Configuration of Public Service Facilities in the Towns of Yanqing District Under the Background of the New-Type Urbanization**

Lin Chen

Research Center of Master Planning, Tongheng Urban Planning & Design Institute, China

# SESSION PROGRAM

**Session VI: 15:30-17:15, 1/F Lecture Hall, School of Architecture, XAUAT**

**Moderator - Norihisa Shima (Toyo University)**

**Theme: Cities and Infrastructure**

## **VI-1: The Development of Fire Safety Research for Subway System in China**

Wang Zhiyuan

Beijing Key Laboratory of Green Built Environment and Energy Efficient Technology, Beijing University of Technology, China

## **VI-2: Evaluation and Optimization Strategy of Waterfront Space in Suzhou Based on POI Data**

Siqi Zhan

Graduate Student, Tianjin University, China

## **VI-3: Study on Temperature Distribution of Road Tunnel Fire under Longitudinal Ventilation**

Fan Xianlai

Beijing Key Laboratory of Green Built Environment and Energy Efficient Technology, Beijing University of Technology, China

## **VI-4: Bicycle Successfulness by Social Acceptance: the Example of Japan**

Léo Martial

PhD student, Graduate School of Urban Innovation, Yokohama National University, Japan

## **VI-5: Investigation and Improvement of Outdoor Thermal Environment of Existing Residential Buildings in Dalian**

Yuan Su

Associate Professor, School of Architecture & Fine Art, Dalian University of Technology, China

## **VI-6: Impact of Landscape Elements Allocation of High Altitude Climate on Urban Park Leisure Space Thermal Comfort in Summer : a Case Study of Lhasa**

Ningbo Dong

Master student, Department of Architecture and design, Southwest Jiaotong University, China

## **VI-7: Experimental Study on Cold Tolerance Characteristics of Human Body Under Severe Cold Conditions (-16°C)**

Yu Zhang

Beijing Key Laboratory of Green Built Environment and Energy Efficient Technology, Beijing University of Technology, China

# SESSION PROGRAM

**Friday 30 March**

**Special Session: 9:00-11:00, 1/F Lecture Hall, Engineering Building, XAUAT**

**Moderator: Weijun Gao (The University of Kitakyushu, Qingdao University of Technology)**

**Qingqin Wang (China Academy of Building Research)**

**Theme: International Assessment Standard for Green Building**

**S-1: Introduction to the Green Building Standards of China**

Qingqin Wang

China Academy of Building Research

**S-2: Advancing Net Zero- to Design, Build and Manage Carbon-Neutral Buildings**

Johannes Kreissig

German Sustainable Building Council-DGNB

**S-3: Japanese Green Building Standard and Its Comparison with China and USA**

Weijun Gao

The University of Kitakyushu, Qingdao University of Technology

**S-4: The Innovations and New Features Update of BEAM Plus 2.0 in Hong Kong**

Jiaming Zhou

The Hong Kong Green Building Council

**S-5: The Application of Breeam in the Whole Building Life Cycle**

Yangyan Du

British Building Research Establishment

**S-6: Discussion Forums**

# SESSION PROGRAM

**Poster Session: 11:00-12:00, Hallway of 1/F Lecture Hall, Engineering Building, XAUAT**  
**Moderator: Norihisa Shima (Toyo University)**

**P-1: Analysis of the Second Level Index for Dividing Climate Region for Building Thermal Design in Severe Cold Climate Zone**

Zeqiu Wen

Master student, School of Architecture, Xi'an University of Architecture and Technology, China

**P-2: Study on the Network Connectivity and Reachability of Underground Space in the Development of Land Diversity: Taking Shapingba Station as an Example**

Yuanyuan Wu

Student, School of Architecture and Design, Southwest Jiatong University, China

**P-3: Research of Indoor Thermal and Humid Environment and Air Quality in Public Area of Green Building in Dalian**

Linwei Wang

Master Student, School of Architecture and Fine Art, Dalian University of Technology, China

**P-4: Research on Land Use of Urban Rail Center Station Affected Area Based on Artificial Intelligence Technology**

Yuan He

PhD student, School of Architecture and Design, Southwest Jiaotong University, China

**P-5: Study on the Planning for Village Relocating under the heritage of Regional Culture**

Feng Tingting

Kunming Engineering & Research Institute of Nonferrous Metallurgy Co., Ltd., China

**P-6: Study on Eco-city Design from the Perspective of System Theory**

Dezheng Liu

Master Candidate, Tianjin University, China

**P-7: Research on the Creation of Child-friendly Cities Based on the Concept of Smart Communities**

Wanjun Yang

Master, College of architecture and urban planning, Shandong Jianzhu University, China

**P-8: The Impact of Spatical Morphology Factors on Outdoor Microclimate in a Typical Residential Form**

Zhang Li

Master student, Department of Architecture and Design, Southwest Jiaotong University, China

**P-9: Conceptual Design of Urban Regeneration of Historical and Cultural Block: A Case Study of Taiyanggou Area in Lvshun District, Dalian**

Qi Yangyi

Graduate student, School of Architecture and Art, Dalian University of Technology, China

**P-10: Research on Planning Mode of Green Transportation: Take Yuelai Eco-city as an Example**

Dachang Yuan

Professor, Tianjin University, China

## SESSION PROGRAM

**Session VII: 13:30-15:15, 1/F Lecture Hall, Engineering Building, XAUAT**

**Moderator - Qingqin Wang (China Academy of Building Research)**

**Theme: Green Building 3**

**VII-1: A Study of Installation Method of Fuel Cell for Residence and Storage Battery in Smart District:  
Simulation Consideration of Optimal Share Size and Device Installation Density**

Takahiro Yamamoto

Assistant Professor, Faculty of Human-Environment Studies, Kyushu University, Japan

**VII-2: Study on the Applicability of Bathroom Drying System Combined with a Hot-water Supply  
System Using Solar Heat**

Wanghee Cho

Associate Professor, Faculty of Human-Environment Studies, Kyushu University, Japan

**VII-3: Model Predictive Control of Chillers with Heat Storage Tanks as a Carbon Activated Demand  
Response**

Shohei Miyata

PhD Student, School of Engineering, The University of Tokyo, Japan

**VII-4: Measurement Survey on Household Electricity Consumption in Thailand, Vietnam and  
Cambodia: Building Energy Structure and Lifestyle Database of Asia**

Takuya Shimizu

Master Course, Department of Architecture, Creative Science and Engineering, Waseda University, Japan

**VII-5: Observation Study of Relationship Between Occupants and Energy Consumption**

Keisuke Ojima

Graduate Student, Graduate School of Engineering, The University of Tokyo, Japan

**VII-6: The Study of Occupant Behavior Pattern Factor of Building Energy Consumption in Residential  
Communities**

Jia Tian

School of Environmental and Municipal Engineering, Xi'an University of Architecture and Technology,  
China

**VII-7: Missing Data Estimation for BEMS Data with Irregular Missing**

Shufen Zhang

Department of Architecture, The University of Tokyo, Japan

# SESSION PROGRAM

## **Session VIII: 13:30-15:15, 4/F Lecture Hall, School of Architecture, XAUAT**

**Moderator - Chen Xiaojian (Xi'an University of Architecture and Technology)**

**Theme: Space, Time and Cultural Context 1**

### **VIII-1: Current Water Quality of Inle Lake in Myanmar; A Potential Threat to the Lake Environment**

Takashi Yuasa

Ph.D. Student, Graduate School of Toyo University, Pacific Consultants Co., Ltd., Japan

### **VIII-2: Reuse and Revaluation of the Former City Wall Sites in Urban Development Process of European Cities**

Mengyu Jiang

Doctor Candidate, Department of Socio-Cultural Environmental Studies, Graduate School of Frontier Science, The University of Tokyo, Japan

### **VIII-3: Changes in Spatial Structure of Fishing Villages Caused by Coastline Change: A Case Study of Katsumoto District, Iki city, Nagasaki Prefecture**

Kentaro Morita

Graduate Student, Graduate School of Human-Environment Studies, Kyushu University, Japan

### **VIII-4: Environmental Adaptability of Vernacular Architecture in the Tibetan Kham Area**

Qian Nie

Doctoral Candidate, School of Architecture, Xi'an University of Architecture and Technology, China

### **VIII-5: Protection and Utilization of Red Cultural Heritage in Villages and Towns of Northern Shaanxi under the Background of Rural Revitalization**

Hao Haizhao

Ph.D. candidate, College of Architecture, Xi'an University of Architecture and Technology, China

### **VIII-6: Quality of Integration of a Building in an Urban Heritage area: Evaluation of the Impact of the Variation of Parameters on the Accuracy of a Deep Learning Method**

Mohamed Rami Derbel

Doctoral candidate, Graduate school of science and Engineering, Department of Civil Engineering and Architecture, Saga University, Japan

### **VIII-7: A study on the Space Configuration of Parks and Transition of Park Planning among South Manchuria Railway Zones**

Yuki Onizuka

Under Graduate Student, Department of Architecture, School of Engineering, Kyushu University, Japan

## SESSION PROGRAM

**Session IX: 15:30-17:15, 1/F Lecture Hall, Engineering Building, XAUAT**

**Moderator - Jongyeon Lim (The University of Tokyo)**

**Theme: Green Building 4**

**IX-1: Current Status and Preliminary Analysis of Heating Energy Consumption in Residential Buildings**

Wenli Li

Master Student, School of Building Services Science and Engineering, Xi'an University of Architecture and Technology, China

**IX-2: The Study of Adjustability Optimization Strategy of Residential District Heating Network**

Zhencheng Zhang

School of Environmental and Municipal Engineering, Xi'an University of Architecture and Technology, China

**IX-3: Applicability Analysis of Wind-Solar Hybrid System to Building Energy Consumption in China Coastal Islands**

Chenhui Yang

School of Environmental and Municipal Engineering, Xi'an University of Architecture and Technology, China

**IX-4: Study on Energy Saving and Ecological Benefits of Green Roof in Hot Summer and Cold Winter Areas**

Xiaoping Feng

Professor, School of Environment and Civil Engineering, Jiangnan University, China

**IX-5: Sensitivity Analysis for a Complete Thermochemical Energy Process**

Ayesah Mohammad Al-Awadhi

PhD Student, Department of Civil, Environmental and Architectural Engineering, University of Colorado at Boulder, United States

**IX-6: Residential Building Load Forecasting Model Applicable to Urban Master Planning: A Case Study of Xi'an City**

Hao Dong

PhD Student, State Key Laboratory of Green Building in Western China, Xi'an University of Architecture and Technology, China

**IX-7: Research on Indoor Thermal Comfort of Typical Existing Residential Buildings in Dalian**

Pu Mengmeng

Master student, Department of Architecture, Dalian University of Technology, China

# SESSION PROGRAM

**Session X: 15:30-16:45, 4/F Lecture Hall, School of Architecture, XAUAT**

**Moderator - Takafumi Kurose (Kyushu University)**

**Theme: Space, Time and Cultural Context 2**

**X-1: The Production of Space in Kwun Tong: Urban Design through the Understanding of Everydayness**

Wenxin Zeng

Research Assistant, Department of Urban Planning and Design, The University of Hong Kong, Hong Kong

**X-2: Morphology and Functions of Ring-Radial Spaces and Rotaries in Urban Development**

Jiankun Liu

Doctor Candidate, Department of Socio-Cultural Environmental Studies, Graduate School of Frontier Science, The University of Tokyo, Japan

**X-3: A Study of Stationed Settlements in Xuanfu and Datong Garrisons in Ming Dynasty from the Viewpoint of Xiangyue**

Sheng Dang

Ph.D. Candidate, Graduate School of Human Environment Studies, Kyushu University, Japan

**X-4: The Influence of Changes in Social Context on the Role and Form of Special Facility in Modern Architecture: Nagashima-Aiseien, the National Hansen's Disease Sanatorium in Japan**

Minjeong Park

Graduate student, Department of Architecture, Graduate School of Engineering, The University of Tokyo, Japan

**X-5: Research on Healthy Building Space Based on Traditional Kanyu Theory**

Zhou Wei

Kunming Engineering & Research Institute of Nonferrous Metallurgy Co., Ltd., China

**Closing Session: 17:30-18:30, Lecture Hall at Ground Floor, School of Architecture**

# APPENDIX

## APPENDIX

Friday, March 29, 2019

Room	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00
I/F Lecture Hall, Engineering Building											
	Opening Session					Session I Green Building 1		Session IV Green Building 2			
4/F Lecture Hall, School of Architecture						Session II Planning, Design and Engineering for Dynamism of Society 1		Session V Planning, Design and Engineering for Dynamism of Society 2			
I/F Lecture Hall, School of Architecture							Session III Smart City and Environment		Session VI Cities and Infrastructure		
3/F Hall, Engineering Building								Lunch			

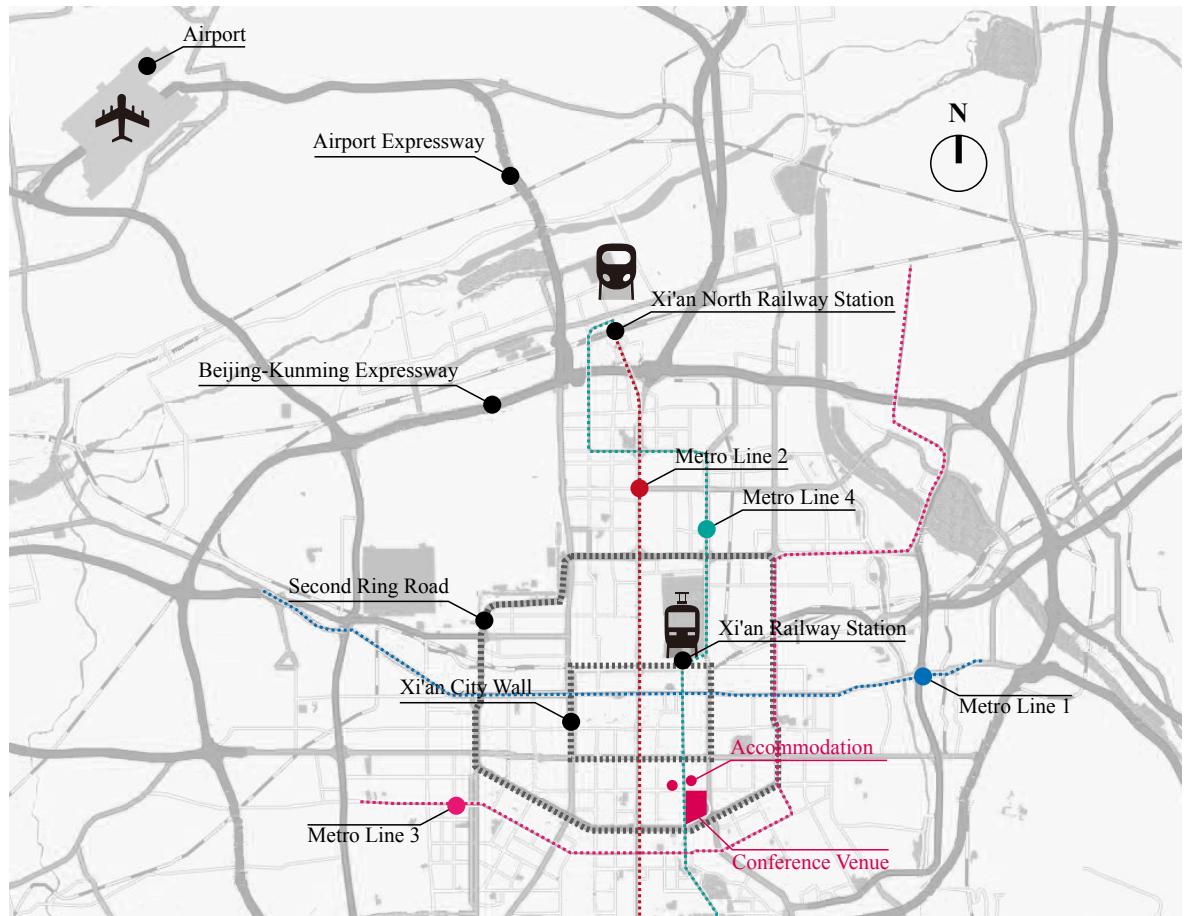
Saturday, March 30, 2019

Room	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00
1/F Lecture Hall, Engineering Building			Special Session			Session VII Green Building 3		Session IX Green Building 4		Closing Session	
4/F Lecture Hall, School of Architecture						Session VIII Space, Time and Cultural Context 1		Session X Space, Time and Cultural Context 2			
Hallway of 1/F Lecture Hall, School of Architecture					Poster Session						
3/F Hall, Engineering Building						Lunch					

Saturday, March 31, 2019

## Optional Tour

## Access Map



### **Xi'an University of Architecture and Technology**

**No.13, Yanta Road, Xi'an, Shaanxi, P.R.China**

#### **By Plane**

##### **Xi'an Xianyang International Airport**

- approximately 70 mins by Car.
- approximately 90 mins by Airport Bus to High-speed Rail Station, from High-speed Rail Station take Line 4 to XAUAT.

#### **By Train**

##### **Xi'an North Railway Station**

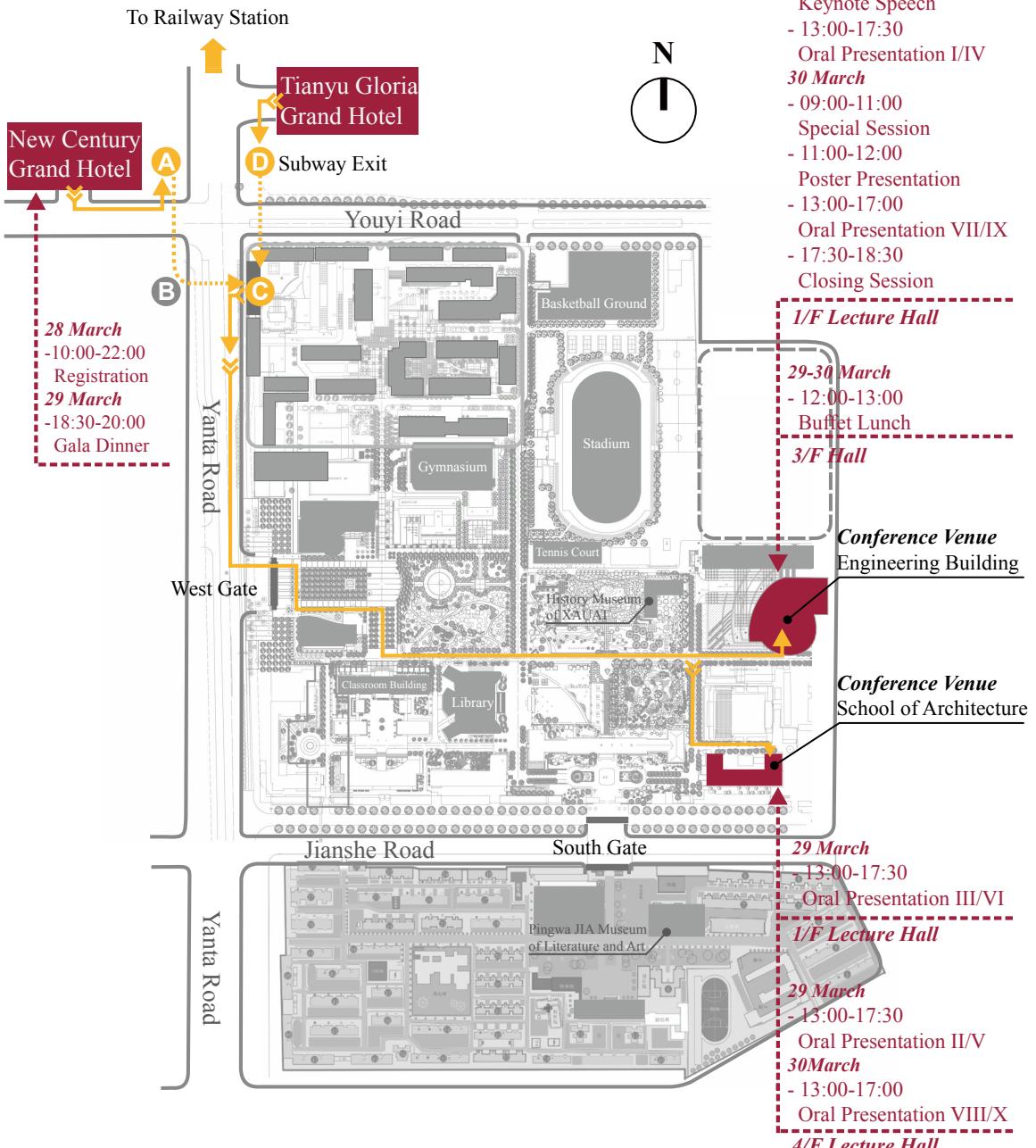
- approximately 60 mins by Car.
- approximately 60 mins by Line 2 to Xing Zheng Zhong Xin, from Xing Zheng Zhong Xin take Line 4 to XAUAT.

##### **Xi'an Railway Station**

- approximately 30 mins by Car.
- approximately 20 mins by Line 4.

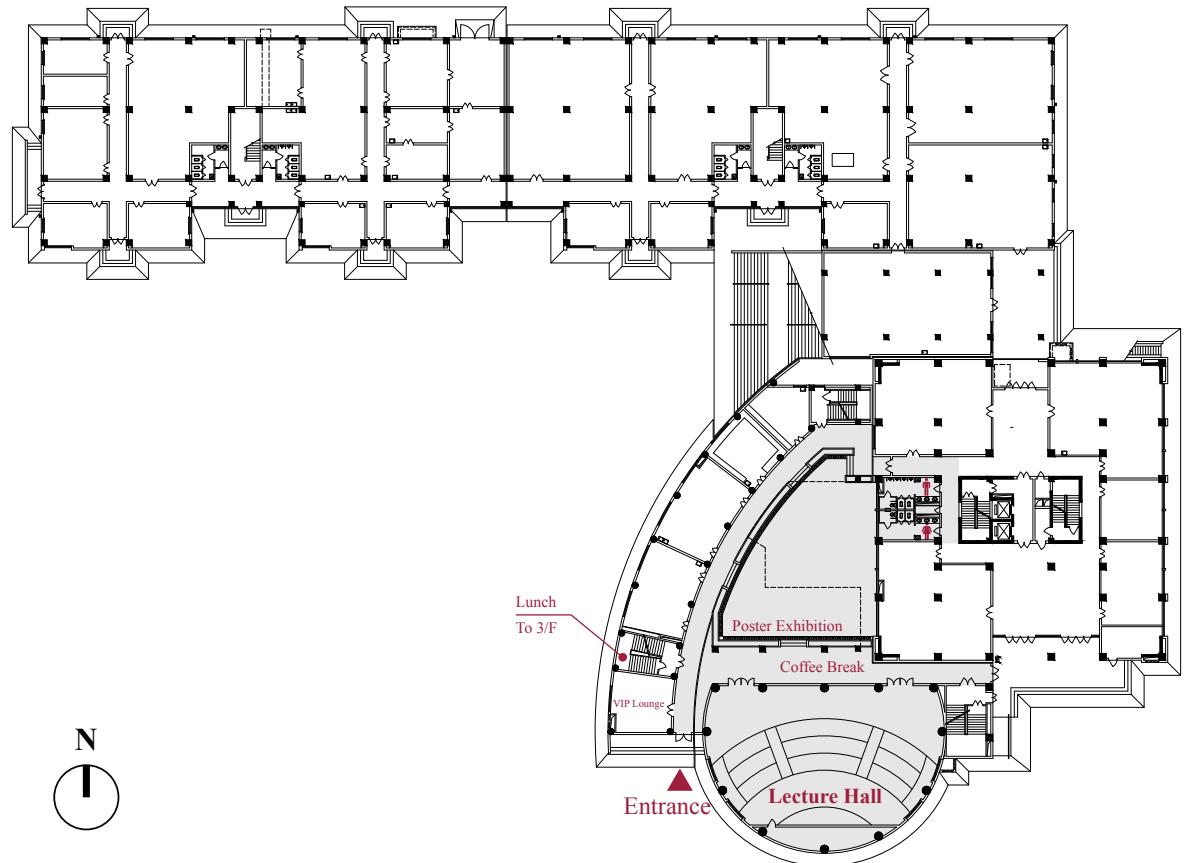
## APPENDIX

### Conference Venue



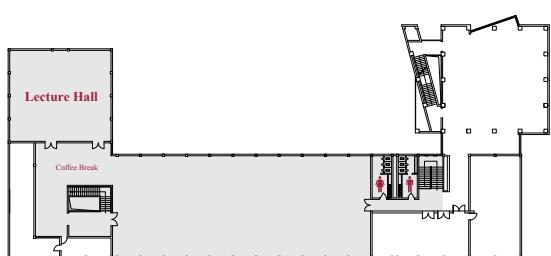
## APPENDIX

### Layout

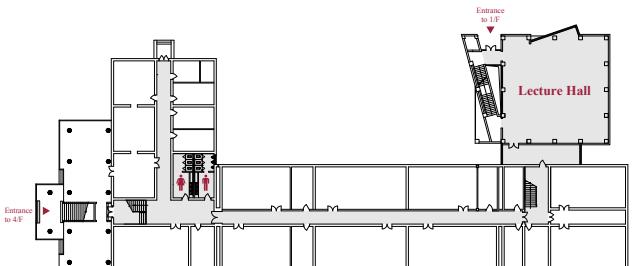


1/F Lecture Hall, Engineering Building, XAUAT

4/F Lecture Hall, School of Architecture, XAUAT



1/F Lecture Hall, School of Architecture, XAUAT



# MEMO

# MEMO

**ORGANIZER**

**CHINESE ACADEMY OF ENGINEERING**  
Division of Civil, Hydraulic and Architectural Engineering



International Alliance for Sustainable Urbanization and Regeneration

**CO-ORGANIZER**

STATE KEY LABORATORY OF GREEN BUILDING IN WESTERN CHINA

**CO-ORGANIZER FOR SPECIAL SESSION**

**China Academy of Building Research**

Bei Jing International Science & Technology Cooperation Base for Green Building



Sustainable Urban Architectural Environment in Asia,  
CAMPUS ASIA pilot program, Kyushu University

