The 42nd Symposium on Computer Technology of Information, Systems and Applications (AIJISA 2019)

https://aijisa.org/2019/

Architectural Institute of Japan Research Committee on Information Systems Technology

--- Architectural Regenesis ---

In order to discuss new possibilities of IT in architectural, constructional, urban and environmental fields, AIJISA 2019 is held. The symposium includes keynote lectures and dialogues (AI & Design (in China), Robotics & i-Construction, Human and Building Augmentation), a number of research and development, and practical design presentations of full and short papers etc. The young presentation award and interactive presentation (poster and demonstration) starts from this year.

Date —— December 12 (Thu) and 13 (Fri), 2019
Venue —— AIJ Building (26-20, Shiba 5-chome, Minato-ku, Tokyo, 108-8414, JAPAN)

Registration fees ——

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※You can attend all the programs for two days by payment.
※The presenter must pay by 1).
※Please attend the award ceremony on Dec 13, 17:30-17:50 if you are eligible for the Young Presentation Award.
※A special tote bag will be given on a first-come-first-served basis for the registrants by 1).

Registration / Capacity —— Official Web (We welcome the onsite registration at the AIJISA 2019 if registrants does not reach the capacity by online registration) / 200 persons

https://aijisa.org/2019/registration/

Contact —— Architectural Institute of Japan
Ms. Fushimi TEL +81-3-3456-2057

● Program Overview

1. Opening Address
WATANABE Shun (University of Tsukuba)
Date / Venue —— Dec 12 (Thu) 14:40-15:00 / AIJ Hall

2. Full & Short Papers / Interactive Presentation
Date —— Dec 12 (Thu) and 13 (Fri)
Venue —— AIJ Hall, Room 201-202, 301-302, 308

① Organized Session (OS)
① Design Science in Computational Intelligence and Architecture
② Virtual and Mixed Reality for Architectural and Urban Fields 2019
③ Building Monitoring and Sensing Initiatives
④ Discussing Various Ways of Architectural Information Education

② General Session

※ The architectural latest solutions are showcased in the hall foyer.

① AI & Design (in China), Robotics & i-Construction
Chair: KO Kaon (Tokyo Univ. of Science)
Date / Venue —— Dec 12 (Thu) 15:00-17:30 / AIJ Hall
Coordinator —— NAKAMURA Ko (Mosaic Design Inc. Founder)

② Advanced Construction and Building Technology: Automation, Robotics, Services
Thomas BOCK (Director, Technische Universitat Munchen / Project Prof., Univ. of Tokyo)

③ Human and Building Augmentation
Chair: KADO Keita (Chiba Univ.)
Date / Venue —— Dec 13 (Fri) 15:00-17:30 / AIJ Hall
Coordinator —— SHIMOHIGOSHI Takaio (A.E. Founder)

④ Superception for Perceptual Engineering
KASAHARA Shunichi (Sony Computer Science Laboratories)

⑤ Sharing Body Experiences with Robots, Virtuals, and Humans: BodySharing
TAMAKI Emi (H2L Founder)

4. Award Ceremony & Closing Address
FUKUDA Tomohiro (Osaka Univ.) & NAKAZAWA Kiminori (Nihon Univ.)
Date / Venue —— Dec 13 (Fri) 17:30-17:50 / AIJ Hall

5. Networking
【Group Photo Session】 Please gather: Dec 12 17:30 at AIJ Hall inside / Dec 13 14:45 at Court in AIJ Bldg.

【Social Gathering】
Date / Venue —— Dec 12 (Thu) 18:00-20:00 / Hibiya Bar Mita-ten
Fee / Capacity —— Regular JPY 4,000, Student JPY 3,000 / 60 persons (first-come-first-served basis)

【SNS】 Taking photos and uploading them on the official website and SNS
Twitter ➤ https://twitter.com/aijisa2016 Hashtag ➤ #AIJISA
Facebook ➤ https://www.facebook.com/aijrcist/

If you would like to buy the past AIJISA proceedings on DVD (2014-2017), please order by e-mail to books@aij.or.jp or AIJISA 2019 reception desk directly: JPY 5,000/DVD (including tax, Shipping fee is required separately)
DAY 1: Thursday, 12 Dec 2019

Virtual, Mixed and Augmented Reality

9:40-12:00 • Room 201-202
Chair: FUJI TAKESHI (Ritsumeikan Univ.)

1. H92 Preliminary Study on Visualization of Building Standard Laws by HoloLens: A Case Study in Kanazawa City
   ▪ SHIN Zhenjiang (Kanazawa Univ.), SUGIHARA Kenichi, WU Teng, TENG Xiao

2. H99 Smoothing of Point Cloud for Generating VR Video Image of Earthquake Damage
   ▪ YAMASHITA Kazuo (NIED)

3. H55 An Algorithmic Optimization Model for High-Density Urban Settings
   ▪ Mohammed Aqil CHEDDADI (Kairo Univ.), IKEDA Yasushi

   ▪ USHIYAMA Yoshikiko (Kanazawa Inst. of Tech.), SHIMOKAWA Yuichi

5. H64 Linking Patterns between VR and Reality which Affects Perception of VR Space: Taking a Bath with VR
   ▪ YOKOTA Fumiko (Ritsumeikan Univ.), MURAKAMI Masaya, YAMADA Satoshi

   ▪ MURAKAMI Masaya (Ritsumeikan Univ.), YOKOTA Fumiko, YAMADA Satoshi

7. H35 Consideration on Continuous Utilization of 3D-Data in Construction Project and Urban Development
   ▪ TANOUYE Yasumori (Panasonic Corp.), OISHI Toshioha

Building Information Modelling

9:40-12:00 • Room 201-202
Chair: KAWASUMI Norihiro (Kawagaya Univ.)

8. H07 Use of Building Information Models to Search for Elements Similar to Those Causing Water Leak – Part 2
   ▪ MATSUBAYASHI Michio (National Inst. of Tech., Kashiwado Col.)

9. R28 Study on Temporary Housing Layout Planning Using an Interactive Planning Method Based on BIM
   ▪ FUJUOKA Ryota (Kumamoto Univ.), ONISHI Yasunobu

    ▪ TAKEUCHI Takahiro (Yasui Architects & Engineers), HAYASHI Shinya, TOUMI Kano, SHIGETO Kazuyuki

11. R57 Study on the Automatic Modeling of Concrete Formwork Based on a Building Structure Model Using BIM
    ▪ MATSUO Satoshi (Kumamoto Univ.), ONISHI Yasunobu

12. H31 Utilization of BIM and CIM and Laser Surveying in the Field of Construction and Civil Engine
    ▪ OHINUKI Hisatoshi (ARMO), DOIHARA Izumi, MORIGUCHI Tomoaki, KODAMA Takashi, WATANABE Yoshinori

13. H96 Integration of BIM and IoT for Building Maintenance Management
    ▪ KONISHI Takahiro, YAMAOKA Hirofumi, KONDO Shinichi

    ▪ NAKAMURA Kentaro (MOKU-CHIN KIKAKU), ONISHI Yasunobu

Human Science and Monitoring

12:50-14:30 • Room 201-202
Chair: YAMABE Yuihiro (Kobe Univ.)

15. H99 Neighborhood’s Sentiment Cloud: Visualization of Leisure Through Text Analysis
    ▪ Daniil Eidy MIURA (Univ. of Tokyo), MIYAHARA Shunsuke

16. H59 Estimating Number of Seated Persons Using Thermopile Array Sensor
    ▪ OGATA Hiroki (Kumamoto Univ.), ONISHI Yasunobu, NAKAMA Yuki, SHIGETO Kazuyuki, HATAMIA Shohei

17. R83 A Study on Relationship Between Visual Information Acquisition and Pedestrian Behavior
    ▪ FURUKAWA Takaki (Tokyo City Univ.), TAKAYANAGI Hideaki, YAMADA Shogo, KIHARA Tatsuo

18. R93 An Experimental Study on the Effect of Geographic Location Sharing Information Using Application for on Foot Evacuation
    ▪ YAMAZAKI Chihiro (Kanazawa Univ.), IKEOMOTO Toshikazu, OGAWA Fukunaga, TAKATA Yoshihiro, SERIKAWA Yoko, MIYAJIMA Masakatsu

    ▪ KOJIMA Naoyuki (Ritsumeikan Univ.), YAMADA Satoshi

Organized Session I

9:40-12:00 • Room 301-302
Chair: FUJI Haryuki (Tokyo Inst. of Tech.)

20. H04 Optimization for Large-Scale Frames Based on Machine Learning for Feature Analysis of Placement of Braces of Small-Scale Frames
    ▪ SAKAGUCHI Kazuma (Kyo Univ.), OHSAKI Makoto, KIMURA Toshiaki

21. H06 On Lagrange Duality for Topology Optimization Under Frictionless Contact
    ▪ KANNO Yoshihiro (Univ. of Tokyo)

22. H41 Construction of Open Source Computational Morphogenesis Environment on Grasshopper Using GH, Cypthom and OpenSeesep
    ▪ FUJITA Shimoune (Univ. of Kitakyushu)

23. R50 Between Centralization Analysis of Street Networks Considering Travel Costs
    ▪ KITAMOTO Enko (Ritsumeikan Univ.), YAMADA Satoshi, NUMENOMOTO Shinshu, OKAWA Kiyosuke

24. H16 A Methodology of Making Uniform Space Filling Rigid by Adding Unit Solid
    ▪ KOBAYASHI Yuki (Osaka City Univ.)

25. R43 A Basic Study on Description of Ambiguity of In-Out Using Deep Learning: Where the Classifier that Reads Visible Regions Fails in Discrimination?
    ▪ YASUDA Kei (Kyo Univ.), KUCHIBA Yuta, MIURA Ken

26. H97 Use and Deviation in Design Activities
    ▪ NAGASAKA Ichiro (Kobe Univ.)

Parametric Design

12:50-14:30 • Room 301-302
Chair: TAKIZAWA Atsushi (Osaka City Univ.)

    ▪ SAKATE Hiroiyoshi (Shimizu Corp.), UEDA Jun, MIURA Daikazu

    ▪ MIURA Daikazu (Shimizu Corp.), SAKATE Hiroiyoshi, OHTA Nozomu, YAGAWA Akihiro, MAKI Shintaro, AMARI Takehiro

29. H48 Development of Lighting Design Simulator Using Parametric Method
    ▪ KAWASUMI Norihiro (Kawagaya Univ.), INADA Yushi, NAKAO Shunsuke

30. H14 An Curved-Folding Algorithm to Adapt to the Freeform Surface: Design and Fabrication
    ▪ HONG-CING TUNG (National Chiao Tung Univ.), Pei-Hsien HSU

31. H78 A Tool for Designing with Visual Algorithms
    ▪ Andrew I-kang LI (Kyoto Inst. of Tech.) and Rudi STOFFS

Artificial Intelligence

9:40-12:00 • Room 308
Chair: SUGITA So (Hiroshima Inst. of Tech.)

32. R05 Seismic Attenuation Model Based on Data-Driven Approach: Numerical Examples for the Kyushu District in Japan
    ▪ KANEKO Kansaku (Tokyo Inst. of Tech.), IWASAKI Tomohiro, NOBATA Atsushi

33. R92 Estimation on Response and Damage of Multistory Structures Caused by Earthquakes Using Hierarchical Neural Network
    ▪ YOKOI Shuhei (Kobe Univ.), TANI Akinori, YAMABE Yuichiro

34. R75 A Fundamental Study on Pedestrian Flow Control Using Deep Reinforcement Learning
    ▪ TSUNEKAWA Hiroshi (Takahara Corp.)

35. H25 Automatic Generation Method of Building Mask Images by Using the 3D Model with Aerial Photograph for Deep Learning: Toward authentic optimal placement system of outdoor loudspeaker for communication of disaster prevention information
    ▪ IKENO Kazunosuke (Osaka Univ.), FUKUDA Tomohiro, YABUKI Nobuyoshi
Organized Session II

Virtual and Mixed Reality for Architectural and Urban Discipline 2019

09:00-10:40 Room 201-202

Chair: ONISHI Yasunobu (Kumamoto Univ.)

44 H19 Integration of Real-Time Video Communication and Semantic Segmentation over the Internet Toward Dynamic Occlusion Handling in Mobile Mixed Reality for Landscape Simulation
- KIDO Daiki (Osaka Univ.), FUKUDA Tomohiro, YABUKI Nobuyoshi

45 H26 Development of a Telepresence System for Sharing 3D Physical Objects: Improving Visibility of Virtual Objects by Increasing the Density of Real-Time Point Clouds
- SHIKAWA Daichi (Osaka Univ.), FUKUDA Tomohiro, YABUKI Nobuyoshi

- NAKAMA Yuki (Kumamoto Univ.), ONISHI Yasunobu

47 R23 Study on Supporting the Owner’s Decision Making in Design Meetings Using Virtual Reality
- KAMATA Aoi (Kumamoto Univ.), ONISHI Yasunobu

48 R24 Study on the Method of Displaying Facility Operations and Maintenance Information Using VR and Motion Capture
- MATSUMURA Tatsuki (Kumamoto Univ.), ONISHI Yasunobu

Interactive Presentation

11:00-12:00 Room 201-202

Chair: Tomohiro FUKUDA (Osaka Univ.)

49 Z109 A Project on Computational Design Architecture Using Voronoi Division: BIM Project Through Design, Fabrication, Construction
- SEYAMA Mitsuhiro (Takenaka Corp.), TANAKA Seiji

50 Z105 Holodesigner: A Mixed Reality Tool for On-site Interactive 3D Visualization of Design Object
- Yuzo DAN (Kanazawa Univ.), SHEN Zhenjiang

51 Z104 Acquisition of Gaze Points in Real Space by 360° Image and Eye Mark Recorder
- MIURA Ken (Kyoto Univ.), YASUDA Kei, MIURA Ken

52 Z108 A Study on Preserving of Historic Buildings Utilizing Building Information Modeling
- SHIMADA Yuta (Nihon Univ.), NAKAZAWA Kiminori

Optimization (1)

09:00-10:40 Room 201-202

Chair: TANI Akinori (Kobe Univ.)

59 H51 Optimal Design of Steel Pipe Pilots by Metaheuristic Method
- MORIMOTO Yoshiya (Univ. of Kitakyushu), FUJITA Shinnosuke

60 H52 Numerical Experiments on Equilibrium Analysis of Structures by Gradient Methods
- FUJII Fumito (Univ. of Kitakyushu), FUJITA Shinnosuke

61 H33 Shape Optimization for RC Spatial Structure Considering Rebar Constructability
- KIMURA Yoshiaki (Kyoto Univ.)

62 H85 Dynamic Characteristics Identification of Non-Linear Structures Using Detailed Finite Element Analysis
- FUJII Fumito (Univ. of Kitakyushu), FUJITA Shinnosuke

63 H18 Optimizing Evacuation and Return Routes on Tsunami Disaster Caused by Nankai Trough in Osaka City
- TAKIZAWA Atsushi (Osaka City Univ.), KAWAGISHI Yutaka

Architectural Planning

09:20-10:40 Room 301-302

Chair: MATSUMOTO Yuji (Kyoto Inst. of Tech.)

68 H63 Proposal and Case Study of the Openness Analysis Index of Area Using Tool for Analyzing Geometric Appearance Feature
- HIROSE Hiroki (Kanazawa Inst. of Tech.), FUKUMOTO Daisuke, MATSUMOTO Yuji, MIYAMURA Tomohiko

69 H95 A Study on the Visibility and Openness of Landscape Components in the Sequence Landscape When Exiting the Station
- FUKUDA Tomohiro (Ritsumeikan Univ.), HAYANO Hironori, HIROSE Hiroki

70 R44 Supporting Method for Formulation and Operation of Rule of Landscape’s Color by Utilizing Residents’ Evaluation
- KINOSHITA Yoshihiro (Nippon Inst. of Tech.)

71 H36 Proper Arrangement of AED and Sign Consider that Uncertainty of Doing First Aid by Non-medical Workers
- NAKASHIMA Masaki (Ritsumeikan Univ.), YAMADA Satoshi, IWATA Shinichiro, EGAWA Kana

[Organized Session III]

Building Monitoring and Sensing Initiatives

09:00-10:40 Room 201-202

Chair: SHIRAIISHI Michihito (Shimizu Corp.)

64 H13 A Comparative Experiment and Information Infrastructure for Performance Evaluation of Various Indoor Positioning Systems
- IGARASHI Yuya (Shimizu Corp.), YAMAZAKI Motoki, SHIRAIISHI Michihito

65 H20 Frost Deterioration Monitoring of Concrete Using Optical Fiber Sensor
- HAYANO Hironori (Taichiyo Cement Corp.), HIROSE Hiroki, SEKINE Mariko

66 H62 Earthquake Response Monitoring by Video Analysis Using Open Source Hardware and Open Source Software
- TANI Akinori (Kobe Univ.), KAWATE Koshio, YABE Yasuhiro

- SHIMADA Tatsuki (Kobe Univ.), TANI Akinori, YABE Yasuhiro

[Organized Session IV]

Full and Short Presentations / Interactive Presentation Program
Optimization (2) 13:00-14:20 Room 301-302

Chair: OHSAKI Makoto (Kyoto Univ.)

72 R03 Machine Learning-Based Control Design of Dynamic Interaction Systems with Nonlinearity
  KANEKO Kensaku (Tokyo Inst. of Tech.)

73 H79 Estimation Method for Wooden Frame Structure and Seismic Performance to Wooden Frame Residential House: Algorithm to Generate Floor Plan and Compress the Amount of the Wall Volume Regulation Calculations
  HIRAKAWA Hideki (ArchInnext), UEMATSU Takeyoshi

74 R29 Shape Optimization of the Evaporative Cooling System for Pavement Block Subjected to Maximum Water Retaining Capacity
  NISHIMURA Toku (Kanazawa Inst. of Tech.), TONE Kazumasa, MARUI Motofumi

75 R90 The Study of Optimization of Timetable and Classroom Layout in Junior High School with Departmentalized Classroom System Using GA and MAS
  FUJIKAWA Hiroki (Kobe Univ.), YAMABE Yuichiro, TANI Akinori

Digital Fabrication and Construction 9:00-10:40 Room 308

Chair: MIZUTANI Akihiro (Toyohashi Univ. of Tech.)

76 H08 A Study on the Way of Prediction for Rough Construction Cost in the Early Stage of the Project Using Neural Network Techniques
  KADO Yasumasa (NIHON SEKKEI), ITO Kazunori, MURASE Hiroyuki

77 H30 Analysis and Survey of Design Decision Making Process in Steel Production Process
  FURUKAWA Satoru (Mihama Steel Logistics), YOSHIDA Tomohiro, CHI Naiyuan, KAKUTA Tsuneo, OKAMOTO Hiroyuki, FURUSAKA Shuzo

78 H74 Adaptive Robotic Carving by Vibration Chisel in Japanese Traditional Wooden Architecture’s Sculpture Part Manufacturing
  OTANI Seiki (Chiba Univ.), NAKAMURA Yasuaki, FURUSUKI Genki, KADO Keita, HIRASAWA Gakuhito

79 H87 Availability Scrutiny of 5-Axis Machine Through Folly Production
  FURUSUKI Genki (Chiba Univ.), YOSHOKA Naoki, RANDI HANTORO, OTANI Seiki, NAKAMURA Yasuaki, KADO Keita, HIRASAWA Gakuhito

80 H11 Mapping of Similar Buildings Based on Structural Design Database
  KINO SHITA Takuya (Takenaka Corp.), KAWAKAMI Takuma, KAWASHIMA Naoki, TANIZAWA Richi

Organized Session IV

Discussing Various Ways of Architectural Information Education 12:30-14:30 Room 308

Chair: MATSUBAYASHI Michio (National Inst. of Tech., Kushiro Col.)

81 H65 A Study on Project Based Learning by Fabrication Truck
  NAKAZAWA Kiminori (Nihon Univ.), KINO SHITA Takehito, MITSUI Kazuo

82 H54 Introduction of Algorithm Education Using VBA to Design
  MAE Toshifumi (National Inst. of Tech., Oita Col.), MATSUMOTO Yoji

83 H60 A Method of Making Building Scale Model Using Information Technology for Spatial Perception Education of Visually Handicapped
  ONISHI Yasunobu (Kumamoto Univ.), FUKUOKA Ryota

84 H70 Practice of Bioclimatic Design Education Using BIM: Introduction of Environmental Simulation Techniques in Architectural Design Education
  MORIYA Yasuhiko (Tokyo Polytechnic Univ.), KIMURA Takeshi

85 H86 Practice of Architectural Information Education that Transverse Between Architecture and Manufacturing
  SUZUKI Sa (Hiroshima Inst. of Tech.)

86 H91 Promotion of Interdisciplinary Co-Creation with a Focus on xR Technology
  SHIMOKAWA Yuichi (Kanazawa Inst. of Tech.)

R: Full Paper / H: Short Paper / Z: Interactive Presentation
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<th>Venue</th>
<th>Date</th>
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<td>Dec 12 Thu AM</td>
<td>9:40-12:00</td>
<td>▼ Virtual, Mixed and Augmented Reality</td>
<td>9:40-12:00</td>
<td>▼ Building Information Modelling</td>
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<td>▼ Human Science and Monitoring</td>
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<td>▼ Parametric Design</td>
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<td>Dec 12 Thu PM</td>
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<td>Keynote &amp; Discussion &quot;AI &amp; Design (in China), Robotics &amp; i-Construction&quot;</td>
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<td>- Artificial Intelligence and Design in China: Kostas Terzidis</td>
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<td>- Advanced Construction and Building Technology: Automation, Robotics, Services: Thomas Bock</td>
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<td>Dec 13 Fri AM</td>
<td>9:00-10:40</td>
<td>▼ OS-II Virtual and Mixed Reality for Architectural and Urban Fields 2019</td>
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<td>▼ Optimization (1)</td>
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<td>10:40-11:00</td>
<td>Coffee Break</td>
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<td>13:00-14:20</td>
<td>▼ OS-III Building Monitoring and Sensing Initiatives</td>
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▼: 76 full & short papers presentations (20 min. (15 min. presentation and 5 min. discussion)) which include organized sessions. 10 interactive presentations.