AIJISA 2023: The 46th Symposium on Computer Technology of Information, Systems and Applications Program and Venue

Venue	Room1	Room 2	Room 3	Room 4
/	(HALL)	(201+202)	(301+302)	(308)
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	9:00-11:45	9:00-10:30	9:00-10:30	9:00-11:00
	▼[OS-1] Design Science in Computational	▼XR 1	▼BIM 1	▼ Disaster prevention/Safety
	Intelligence and Architecture	VAIL 1	Y BIW 1	V Disuster prevention, surety
Α	Intelligence and Architecture	40.00.40.00		
М		10:30-12:00	10:30-12:00	
		▼XR 2	▼BIM 2	
	13:00-14:30	13:00-13:45	13:00-14:45	13:00-14:30
	▼ Monitering/Sensing	▼XR 3	▼Architectural Planning	▼ Algorithmic Design
			1	
		13:45-14:45		
		▼[OS-2] XR/Media 2023 in		
		Architecture/Urban Fields		
		Architecture/Orban Fields		
.				
	15:00-15:10			
	▼ Opening Address			
	Yuichi Shimokawa			
1				
P	15:10-17:30		1	
1 -	▼[Keynote-1] Generative AI: Revelations,			
М	frictions, and beyond			
	Keynote speech: Seiji Yamada and Sota			
	Misawa			
	Moderator: Narito Kurata and Naomi			
	Matsunaga			
	Dialog coordinator: Yuichi Shimokawa			k
	17:30-			
	Group Photo Session			
	Interactive Presentation Preparation	9:00-10:30	9:00-10:30	9:00-10:15
		▼AI 1	▼ Urban Planning 1	▼ Environment/Equipment
1				
A				
	10:40-12:00			
	10:40-12:00 ▼Interactive Presentation			
	▼Interactive Presentation			
	▼Interactive Presentation 13:00-14:30	13:00-14:30	13:00-14:30	13:00-14:15
	▼Interactive Presentation	13:00-14:30 ▼AI 2	13:00-14:30 ▼Urban Planning 2	13:00-14:15 ▼Architectural Social System
	▼Interactive Presentation 13:00-14:30			
	▼Interactive Presentation 13:00-14:30			
М	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization			
M	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization 14:50-			
M	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization			
M	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization 14:50- Group Photo Session			
M	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization 14:50- Group Photo Session 15:00-17:30	▼AI 2		
M	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization 14:50- Group Photo Session 15:00-17:30 ▼[Keynote-2] Architecture, urbanism, and the	▼AI 2		
M	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization 14:50- Group Photo Session 15:00-17:30 ▼[Keynote-2] Architecture, urbanism, and the future of Al utilization	▼AI 2		
P	▼Interactive Presentation 13:00-14:30 ▼Structure Optimization 14:50- Group Photo Session 15:00-17:30 ▼[Keynote-2] Architecture, urbanism, and the future of Al utilization Keynote speech: Shohei Ishikawa, Toshiki	▼AI 2		
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DAY1: Thursday, 7 Dec 2023

▼ Organized Session 1: Design Science in Computational Intelligence and Architecture

9:00-11:45 Room1 (HALL)

Chair: Toshiki HIRANO (the Univ. of Tokyo) and Akihiro MIZUTANI (Toyohashi Univ. of Technology)

- 1 H33 Topology Design of Lattice Structures with Specified Deformations using Machine Learning
 - oTomoya MATSUOKA, Makoto OHSAKI and Kazuki HAYASHI
- 2 H22 Confidence Bound Generation from Data Points and Its Application to Equilibrium Analysis

OYoshihiro Kanno

3 H63 Structural Optimization Considering end state by Using Machine Learning of NN 5-layer 3-span model

 \circ Kazuma KOBAYASHI, Yohei YOKOSUKA

4 H16 Similarity of Architects Image Captured from Reviews -For Modern Architectures-

ONao TANIKAWA, Hiroki OCHI, Satoshi YAMADA

5 H39 A Study on Computer Technology Symposium Application of information systems to architectural design and engineering

oMasaki HONJO, Satoshi YAMADA

6 H128 Relationship between Resolution and Spatial Awareness in VR space

oJoonyoung KIM, Satoshi YAMADA

7 H04 Rigid body visibility analysis: describing invisibility by lattice extending isovist

OYuto MARUYAMA, Kei YASUDA, and Ken MIURA

8 H118 Addition Methods of Braces to Make Cubic Grids Rigid Considering Variations in Placement

OYuki KOBAYASHI

9 R13 Changes of Visibility of Buildings by Pedestrianization of MIDOSUJI Using 3D City Models

ORyunosuke MORI and Yuki KOBAYASHI

10 H59 Analysis and Comparison on Streetscapes Using 3D Isovist Invention of a mathematical program to compute un-similarities of visible regions

ODaisuke WATANABE, Kentaro HONMA and Kotaro IMAI

11 H81 Effect of Relative Position of Opening and Viewpoint on Sense of Openness Basic Analysis Using VR

•Kento MATSUI, Kentaro HONMA and Kotaro IMAI

▼ Monitering/Sensing 13:00-14:30 Room1 (HALL)

Chair: Yukiko YOSHIDA (Ibaraki Univ.)

12 H62 Does Natural Light Control in the Bedroom Improve the Awakening Quality?

OXiaorui WANG, Daisuke MATSUSHITA

13 H86 Development of Autonomous Time Synchronized Sensing System Enabling Measurement of Acceleration and Image

∘Narito Kurata

14 H73 A Study on Avoidance Prediction and Avoidance Regions Based on Pedestrian Avoidance Behavior Toward Micro-mobility in Single-Crossing Experiments

oHiroto SUNOUCHI, Tatsuto KIHARA, Kei SAITO, Hideaki TAKAYANAGI

15 H74 A Study on the Assessment of the Consistency between Spray-type Fragrances and New Interior Style of Living Space through Biological Information Measurements

 $\circ Yui$ HORISHITA, Hiroto SUNOUCHI and Hideaki TAKAYANAGI

16 H90 Visualization of the Air Environment in the Office and Meeting room area and Experiment on Intellectual Productivity Evaluation using the SAP - JSBC

∘Kozo YAMAMOTO

17 H19 Method for Estimating Pedestrian Traffic and Speed in Stairwell Using Strain Sensors

oKINOSHITA Yoshiro

▼XR 1

9:00-10:30 Room2 (201+202)

Chair: Yasushi IKEDA (the Univ. of Tokyo)

18 R17 Mapping Player Interaction with Virtual Reality Environment to Outline the Influence of Seen Arrangement of Elements on Movement. Towards extracting a Theory of architectural design for Virtual Spaces

oWeam NUMAN, Haruyuki FUJII and Yuval KAHLON

19 R84 Facilitating Synchronous Remote Collaboration on On-site Architectural Design using Mixed Reality

oYuval KAHLON and Haruyuki FUJII

- 21 H69 Development of tool for analyzing eye behavior for photorealistic VR spaces

oHirohiko NAKUI, Yuichi SHIMOKAWA

22 H32 Research On Utterance Characteristics When Observing Architectural Works In Classes Using VR

oRyoma KOBAYASHI, Yuichi SHIMOKAWA

23 H87 Time-series digital archive of construction process Development of educational tool for young engineers using 3D virtual tour

o Yuichi SHIMOKAWA, Tatsuru SUDA, Takumi YANO, Hidehisa Nomura

▼XR 2

10:30-12:00 Room2 (201+202)

Chair: Eriko KITAMOTO (Kanagawa Institute of Technology)

24 H42 Combining 3D Models and Panoramic Images in VR Spaces Gathering of line-sight data and Visualization

oTakuya Miyagawa, and Yuan MA

25 H10 Development of Laser Marking Support System Using Object Detection and Projection Mapping

OShingo KITANO, Shingo SONODA

26 H89 Digital Experience and IPD in the Web Metaverse

oTetsuya MAEDA

27 R30 Automatic Generation of Double Shed Roof & Full-length windows Buildings and Sun Light Simulation at Rooms of these 3D Building Models

o Takahiro MURASE, Kenichi SUGIHARA and Zhenjiang SHEN

28 H127 Modeling Methods for Difficult-to-Model Objects in Photogrammetry

oKenichi IIJIMA, Masaaki TSUJI, Kojin OTSUKA, Yusuke TANIWA, Hayato YAMAZAKI and Hiroto KISHIMOTO

29 H94 Development of a spatial verification tool using onsite AR For retail space planning

ONorihiro KAWASUMI and Shogo UEMICHI

▼XR 3

13:00-13:45 Room2 (201+202)

Chair: Tetsuya MAEDA (TOYO CONSTRUCTION)

30 H31 Analysis of behavior and community in a reality-linked metaverse Comparison of real world and metaverse and investigation of community impact for classrooms

Shoya KOIZUMI, Satoshi YAMADA

31 H41 A Study on VR landscape presentation system for street planting planning by Interactive Genetic Algorithm

∘So SHOJI, Yuichiro YAMABE

32 H114 Study on the Transformation of Experiences in Urban Spaces through Visualization Systems

ONaoki TAGAWA, Hitoshi MURAI, Taihei SHII and Keisuke TOYODA

▼Organized Session 2: XR/Media 2023 in Architecture/ Urban Fields

13:45-14:45 Room2 (201+202)

Chair: Yasunobu ONISHI (Kumamoto Univ.)

33 H60 Applications and Prospects of Virtual and Mixed Reality in Architecture and Urbanism 2023 (1)

OGaku SASADA, Yukio ANDO, Jun UEDA, Yasunobu ONISHI, Eriko KITAMOTO, Narito KURATA, Suisho SAKATANI, Shunta SHIMIZU, Tomohiro FUKUDA, Mai FUJITA, Naomi MATSUNAGA and Eisuke MITSUDA

34 H61 Applications and Prospects of Virtual and Mixed Reality in Architecture and Urbanism 2023 (2)

OGaku SASADA, Yukio ANDO, Jun UEDA, Yasunobu ONISHI, Eriko KITAMOTO, Narito KURATA, Suisho SAKATANI, Shunta SHIMIZU, Tomohiro FUKUDA, Mai FUJITA, Naomi MATSUNAGA and Eisuke MITSUDA

■Full and Short Papers / Interactive Presentation

H09 Comparative Study of Neural Radiance Fields and Photogrammetry for Shape Determination of Steel Structures OSAWA, Tadaaki SAITO and Naoto HARA

R113 Multi-Agent Evacuation Simulator Considering Thermal Smoke Flow and Visualization on Multi-User Virtual Reality

ODaiki KIDO, Kazuhiro AMANO, Osamu IMAZEKI, and Rieko KONDO

▼BIM 1

9:00-10:30 Room3 (301+302)

Chair: So SUGITA (Hiroshima Institute of Technology)

H45 Development and Practice of Remote Presence based on CDE

oHajime NOGUCHI, Akio ARAKAWA, and Kozo NOSE

H47 Devolopment and Practice of a Pre-confirmation Method Using CDE Document Confirmation by Electronic Files

OAkio ARAKAWA, Shojiro TAIRA and Kozo NOSE

H46 Practice and Development of a Pre-confirmation Method Using 3D Images Visual Confirmation and Measurement Confirmation by 3D images

oAkio ARAKAWA, Hajime NOGUCHI and Kozo NOSE

R12 A New Methodology on BIM-FM Data Integration Using

OAtsushi MORIWAKI, Masayuki ICHINOSE, Muneki IKEGAMI Masayuki OGATA, Alkhalaf HAITHAM and Hideaki SHIBATA

H115 A Study on the Construction of a BIM Model for the Maintenance and Management of Modern Heritage

oHiroto MASE, Yuki Kobayashi, and Kiminori NAKAZAWA

H122 Development of a Structural Analysis Integration System with Revit

OShodai FUNATSU, Shinnosuke FUJITA

▼BIM 2

10:30-12:00 Room3 (301+302)

Chair: Yuji MATSUMOTO (Kyoto Institute of Technology)

R105 Development of a Support System for Indoor Lighting Considerations Using an Exploratory Process

OShogo UEMICHI, Norihiro KAWASUMI

H34 A Study on Self-Positioning Estimation of Cleaning Robots Using UWB and Construction of Digital Twin Using BIM Models oku TANIGUCHI, Yuzuno SAKAMOTO, So SUGITA, Hiroshi SUGITA, Kozo OHTANI, Tomoki OHKIDO, Tomoya YAMAMI and Keita **FURUYA**

H68 Study on a Modular Coordination Support Method for Prefabricated Building using BIM

oGenta KUROIWA and Yasunobu ONISHI

46 R112 Development of a layout planning method using BIM and point clouds focusing on ground height difference

OYoshihiro MATSUO and Yasunobu ONISHI

H116 Evaluation and Improvement of Inspection Support System for Public Housing Focusing on Selection of Defective Building Element to Improve Its Practicality Development of an inspection support system for public housing using BIM and cloud computing part2

OHideki HISATOMI and Yasunobu ONISHI

R78 Development of a Program to Support Emergency Temporary Housing with a Function of Reducing Types of Housing Unit

oTomoya NAGAFUCHI, and Yasunobu ONISHI

▼Architectural Planning 13:00-14:45 Room3 (301+302)

Chair: Kentaro HONMA (the Univ. of Tokyo)

H92 A Smart Building Platform Development and Utilisation and Deployment Application collaboration and the role of building OS in making smarter buildings

o Toshio NAGAFUNE, Yoshikane KOJIMA and Akiko KAWANO

H55 Multi-agent Systems as a Method of Analyzing Visual Relationships in Architectural Space

oYuki IIHAMA, Suisyo SAKATANI

H124 Potental Prospect Describes the prospect area that can be visible through windows from the architectural space

oKei YASUDA, Hiroki WADA and Ken MIURA

52 H58 Research on the relationship between (apparent size of

space × color preference) and visual desirability

oTakato USUI, Yuichi SHIMOKAWA

H70 Optimization of the Planar Covering Problem by the Minimum 2D Isovist Graph

OHideyoshi ODAWARA and Atsushi TAKIZAWA

H79 Characteristics of Gaze Behavior during Impression **Evaluation of Hospital Interior Spaces**

oHong Thai NGUYEN and Takuya OKI

R82 A Study on The Appropriate Value of LDK Space from The Viewpoint of The Arrangement of Living Furniture and The Behavior Ontology

oRisa KAGAYA and Hideaki TAKAYANAGI

▼ Disaster prevention/Safety

9:00-11:00 Room4 (308)

Chair: Atsushi TAKIZAWA (Osaka Metropolitan Univ.)

R109 Withdrawal

H107 A Study on Evacuation Guidance Considering the Distribution of People Using MAS

oYuichiro YAMABE and Chihaya FUKUMURA

R23 Verification of the effect of damage information on disaster victims in need of rescue on disaster relief activities

oKoki ASANO and Yuichiro YAMABE

R125 Study on the location of evacuation site guidance signs Multi-Agent simulation focusing on tourists without information

oDaiki UENO, Toshifumi MAE Tadashi NAGAIE and Yuji MATSUMOTO

H27 Analysis and Proposal of Pre-disaster Recovery Planning in Nankai Trough Earthquake Tsunami Evacuation Special Reinforcement Area

OYuki MANE and Yuji KOBAYASHI

61 R36 Assessing the Impact of Disasters on Urban and Regional Structures and Identifying Issues The Case study on Saiki City, Oita Prefecture

OMasaya NAGI and Yuji KOBAYASHI

H06 Demonstration Experiment on Information Transmission Using Signage Targeting condominiums

oKatsuko HAMAGUCHI, Hajime KAMIYAMA

H07 Report on demonstration experiment of information transmission using signage in Shizuoka City and Hamamatsu City OHajime KAMIYAMA

▼Algorithmic Design

13:00-14:30 Room4 (308)

Chair: Shinnosuke FUJITA (The Univ. of Kitakyushu)

H97 Geometry classification of Japanese joinery Object classification by geometry features

OLynda ITATAHINE, Yosuke KOMIYAMA

H50 Procedural Processes of Curved Surface Generation and Member Placement for Wood Working by Multi-Axis CNC Milling Machine

oNaoki TAGAWA, Azusa TAZUMI, Shoko IKEMOTO, Ryo SUMI and Tetsuya KOUNO

66 R05 Automatic Generation of Step-Shaped Building Models using a Polygon Dividing Method with a Set of Divided Quadrilaterals of Varying Story

oKenichi SUGIHARA, Zhenjiang SHEN and Takahiro MURASE

H77 Construction of Origami Teahouse with Paper as The Main Structure Using Digital Fabrication

oFuta OBA, So SUGITA and Kota OKUGAWA

H119 A Generation of Frame Structure Based on Fractal Geometric Form Spatial frame based on Koch curve

oRei SATOU, Toshifumi MAE and Iasef Md RIAN

H20 Rigidity of Yoshimura cylinders with kerf-bending against a

OYuya ARAI, Satoshi YAMADA

■ DAY2: Friday, 8 Dec 2023 ■

▼Interactive Presentation 10:40-12:00 Room1 (HALL)

Chair: Kiminori NAKAZAWA (Nihon Univ.) and Keita KADO

Full and Short Papers / Interactive Presentation

(Chiba Univ.)

- 70 I01 Rigid body visibility analysis: describing invisibility by lattice extending isovist
 - OYuto MARUYAMA, Kei YASUDA, and Ken MIURA
- 71 I02 Virtual Simulation of Operating Bike Sharing System Consideration of the efficient bike sharing rebalancing plan assuming the characteristics of the city
- oTatsuki ISHII, Junya ONOE, Mizuki NAKANO, Ryunosuke FUKUZAKI, Ryusuke KURIHARA, Shota INABA, Megumu TAKAHASHI, Hiroyasu ANDO, Hiroichi KAWASHIMA
- 72 I03 Tracking Workers in Crowded Environments Using Multiple
- o Tomoki Ashiwa, Shogo Yamada, Ryota Narita, Manami Adachi, Kazuma Sekiguchi and Kenichiro NONAKA
- 73 I04 2.4-GHz Radio-Wave Attenuation of a Thatched Roof and a Metal-tiled Roof
 - OHyunsoo KIM, Sangyeop LEE and Shintaro FUKUDA
- 74 I05 Proposal for a new design method that takes advantage of mobility characteristics. Architectural Design in a Superfluous Society
 - oRiku YONEMITSU, Satoshi YAMADA
- 75 I06 Proposal of a movable system for constructing a space that can be assembled instantly Examination on using this system for living space
 - oKanako OSHIMA, Satoshi YAMADA
- 76 I07 Using Content Generation AI in Design Studies
 - oTomohisa OMOTO, Satoshi YAMADA
- 77 I08 Proposal for a Design Generation System that Interactively Responds to Human Sound and Motion — Development and Application of Kinetic Space Design System
 - oEriko KITAMOTO
- 78 I09 Combining 3D Models and Panoramic Images in VR Spaces Gathering of line-of-sight data and Visualization
 - oTakuya Miyagawa, and Yuan MA
- 79 I10 Image color measurement system using ArUco markers

 Shingo IKENOUE

▼ Structure Optimization 13:00-14:30 Room1 (HALL)

Chair: Toshifumi MAE (National Institute of Technology, Oita

- 80 H11 Strain Prediction of Shell Structures by Machine Learning using Discrete Curvature
 - OKentaro HAYAKAWA and Makoto OHSAKI
- 81 H49 A Study on Optimal Design System for Wooden Buildings with Moment Resistance Joints Using Multi-purpose Genetic Algorithm
 - oSora INOSHITA, Yuichiro YAMABE
- 82 H91 Computational Morphogenesis of Twisting-Controlled Surfaces and Digital Fabrication Evaluation
 - OMakiko SHIMIZU, Shinnosuke FUJITA
- 83 H93 Topology Optimization of Latticed Shells Solved as DC Programming Problem
 - ∘Naoto OKUZONO, Shinnosuke FUJITA
- 84 H121 Computational Morphogenesis of Bending Active Shells with Curved Kerfiffing
 - OShinnosuke Fujita
- 85 H123 Optimization and load testing of masonry arch structures

 Shinnosuke Fujita

▼AI 1

9:00-10:30 Room2 (201+202)

Chair: Yuki KOBAYASHI (Osaka Metropolitan Univ.)

- R18 Fundamental Study on Automated Learning Data Generation and Knowledge Acquisition from Technical Documents
 - OHiroshi TSUNEKAWA
- 87 H108 Research on Historical Building Machine Learning for Objective Scenic Evaluations
 - oKeisuke IWANO, M.R.Derbel and Nobuo MISHIMA
- 88 R85 Autonomous Drone Navigation Using Reinforcement Learning and BIM
 - $\circ Shotaro\ TAKAZOE$ and Kazuya SHIDE

- 89 H67 Floor Plan Clustering Using Visibility and GNN
 - oChika NAKADA, Yuhi MAEDA and Keita KADO
- 90 H65 A Study on Simulation of Wheelchair Motion by Deep Reinforcement Learning
 - OHikaru KANAZAWA and Keita KADO
- 91 H120 Analysis of Visual Atmosphere in Generative Al For the Shinsekai
 - oYugo UMEZU, Kota MURAYAMA

▼AI 2

13:00-14:30 Room2 (201+202)

Chair: Hiroshi TSUNEKAWA (TAKENAKA Corporation)

- **92** H80 Prediction of Nonlinear Mechanical Performances of Single-Layer Latticeshell Using Machine Learning
 - oYuma YABUUCHI, Shinnosuke FUJITA
- 93 H101 Prediction of Dynamic Response of 2D Frames Using Training Data with Multiple Span and Story Heights
 - OHiroshi NITTA, Shinnosuke FUJITA
- 94 H21 Automatic Generation of Drone Inspection Routes for Multiple Buildings Using Reinforcement Learning
 - oTakumi SHIBATA, Satoshi YAMADA
- 95 H51 Research on abnormality detection while driving on various streets -Using future prediction by recurrent network
 - oYudai NAKANO, Satoshi YAMADA
- 96 H129 Proposal of music recommendation using spatial images containing ambiguous impressions as a query
 - oKyo ISHIBASHI, Satoshi YAMADA
- 97 H53 Proposal of a method for analyzing color perception of images considering color contrast effects
 - oTaisei KOYAMA, Satoshi YAMADA

▼Urban Planning 1

9:00-10:30 Room3 (301+302)

Chair: Tadashi NAGAIE (National Institute of Technology, Oita College)

- 98 H15 Where is "Working" Heading?
 - oAtsuo ISHIKAWA, Akiko WATANABE, Fumie SUGANO, Yuri SHIMIZU, Koudai YOKOYAMA, Ami OGAWA
- **99** R25 Issues of Land Use in Suburban Interchange Location Characteristics and Regional Structural Changes
 - oToki TSUBOTA and Yuji KOBAYASHI
- 100 R29 Grasping of Location Characteristics by the Classification of Hub Airports and Urban and Community Development by Utilizing Airports
 - OMayo KAWANO and Yuji KOBAYASHI
- 101 H37 A Study on Construction of Earthquake Damage Analysis Model by Linking GIS and CIM
 - oTetsuro SUZUKI, Kiminori NAKAZAWA, Yuta TABE, Takeshi SAKAMOTO, Masaki SHINADA, and Soetsu SUGIYAMA
- 102 H56 A Study on Urban Pattern Modeling for Sunlight Evaluation Using BIM and GIS
 - $\circ Yoshimi\ MATSUDAIRA,\ Kiminori\ NAKAZAWA$
- 103 H57 A Study on Changes of Building Use in Kurashiki Riverfront Preservation Districts for Groups of Historic Buildings
 - OHaruka FUJIWARA and Kiminori NAKAZAWA

▼Urban Planning 2

13:00-14:30 Room3 (301+302)

Chair: Yuji KOBAYASHI (Oita Univ.)

- 104 H103 Tourism Resource Potential of Former Bathhouse and Text Mining of its Elements
 - ○Makoto INOUE, Yukina ITOU
- **105** H126 Analysis of Travel Data and Cycle Port Installation Environment for Shared Cycle Business
 - oRikuto ITOU, Tadashi NAGAIE, Toshifumi MAE and Hana IKENAGA
- 106 H98 A Study on the Impression of Street View by the Comprehensive Design System Using urban models PLATEAU and VR
 - ∘Yuto YASUI, Shun WATANABE
- 107 H99 Transformation of the Spatial Composition of the Castle Town from the Perspective of the Expansion of the Street Network
 - OKaisei MIYASHITA, Shun WATANABE
- 108 H72 Network analysis of the impact of portable mobility

introduction on station areas

ONaoki KURACHI, Kentaro HONMA

109 H106Analyses on people's behaviors in urban spaces using SNS image data

OYoshikazu SANO and Toshiyuki KANEDA

▼Environment/Equipment 9:00-10:15 Room4 (308)

Chair: Masatoyo OGASAWARA (Tokyo Denki Univ.)

- 110 R96 Study on Window Opening and Closing for Natural Ventilation and Comfort in Office Environment
 - oNanami SUGIMURA, Yukiko YOSHIDA, Toshiaki ICHINOSE, Yujiro HIRANO
- 111 H104 Residential Power Consumption Prediction Model Based on Power Monitoring Data Analysis
 - oYujiro HIRANO, Yukiko YOSHIDA, Daisuke NARUMI and Tetsuji
- 112 H100 The impact of urban aggregation on the introduction of distributed energy systems

OAmara TAKASUGA, Shun WATANABE

- 113 R64 Research of Rainfall Event during the Artificial Flooding at Bicchutakamatsu Castle in Sengoku Periods
- OYoshitami NONOMURA, Shito TERAMAE and Haruchika HAGIWARA
- 114 H95 Multi objective optimization of shape and topology for continuum shell considering environmental and structural performance

ORyusei KOBAYASHI, Shinnosuke FUJITA

▼ Architectural Social System 13:00-14:15 Room4 (308)

Chair: Kazuya SHIDE (Shibaura Institute of Technology)

- 115 H28 Simulation using network process method for steel frame fabrication process planning ∼Towards implementation∼
 - oSatoru FURUKAWA, Tomohiro YOSHIDA, Chi NAIYUAN, Tsuneo KAKUTA, Shuzo FURUSAKA
- 116 H83 Research on the secondary use of architectural drawing information in the facility management phase —Using information extraction from 2D drawing data and coordination with the facility management database
 - oRyo MATSUZAWA, Kyouhei HAKATA , Ryuichi ISHIKAWA, Chisei CHIN, Hitoshi MURAI and Tomonari YASHIRO
- 117 R03 Development of Function Related to Items Management Combining NFC Tag Reading and Building Information Modeling OMichio MATSUBAYASHI
- **118** H54 The guide for Creation and Utilization of BIM Models in the Maintenance and Management of Public Rental Housing
- oKoji KATAYAMA, Hidekazu FUJIMOTO and Katsuyoshi WATAKABE
- 119 H35 Development of workplace accident prediction system for construction sites
 - Youdou NAKA, Masanori NAKAGAWA, Yoshiki FUJIWARA, Hideo KITAHARA, and Michihiko OKAMOTO

R: Full Paper / H: Short Paper / I: Interactive Presentation