

The 19th International Conference of Asia Institute of Urban Environment

Hybrid Conference

2nd-4th December 2022

Program

Hosted by

Asia Institute of Urban Environment

Supported by

Japan District Heating & Cooling Association

Yokohama National University

Yokohama City

Architectural Institute of Japan

The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan

Sponsored by

The Obayashi Foundation

The Maeda Engineering Foundation

Waseda Research Institute for Science and Engineering

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The 19th International Conference Schedule

Date	Time (Tokyo)	Items	Remarks
December 2nd, 2022 (Friday)	10:00 – 12:00	Yokohama City Planning Guide (Virtual Experience)	Venue: Minato Mirai 21 District, Yokohama City
	13:30 – 16:35	Urban Environment and Energy Association Symposium	Japan District Heating & Cooling Association
	19:00 – 20:30	Welcome dinner	Venue: Maholova Minds Miura
December 3rd, 2022 (Saturday)	8:00	Gathering for Conference site	Yokohama National University
	9:00 – 9:30	Participants enter the online meeting or Ceremony Hall	
	9:30 – 9:40	Opening Ceremony Welcome Greetings Prof. Toshio Ojima Prof. Won-Hwa Hong Prof. Kimio Yoshida Prof. Satoru Sadohara	Coordinator: Prof. Hiroto Takaguchi
	9:40 – 9:50	Announcement of Conference Award	
	9:50 – 10:50	Commemorative Speech Prof. Satoshi Sudo Ms. Akiko Kubota Prof. Kwonhoo Kim Prof. Congbao Xu Prof. Yusuke Nakajima	
	10:50 – 11:00	Take gathering photo onsite and online	
	11:00 – 12:30	Keynote Speech by Mr. Kazumi Kobayashi, Former Vice Mayor of Yokohama City	Prof. Satoru Sadohara
	12:30 – 13:30	Lunch Break	Yokohama National University
	13:30 – 17:40	Presentation Session	
	19:30 – 21:00	Farewell dinner	Venue: Maholova Minds Miura
December 4th, 2022 (Sunday)	8:00 – 8:30	Check out	
	9:00 – 15:00	After-Conference Bus Tour	Observation tour of Minato Mirai 21 District Heating and Cooling. Observation tour of Kohoku New Town.

*: Onsite: Ceremony Hall, S1-2 Education & Culture Hall, Yokohama National University

Online: ZOOM Room ID: 959 5392 0932; PASSCODE: AIUE2022

December 2nd (Friday), 2022

Venue: Minato Mirai 21 District, Yokohama City

10:00—12:00 December 2nd (Friday), 2022

Yokohama City Planning Guide (Virtual Experience)

Gathering Time: 9:45

Gathering Address:

Y-PORT, The 6th floor of Yokohama International Bureau Information Dissemination Center

GARELIO（横浜市国際局情報発信拠点 GARELIO 6 階 | Y-PORT）

For details:

[https://yport.city.yokohama.lg.jp/wp-](https://yport.city.yokohama.lg.jp/wp-content/uploads/2021/07/GALERIO%E3%82%A2%E3%82%AF%E3%82%BB%E3%82%B9%E5%9B%B3.pdf)

[content/uploads/2021/07/GALERIO%E3%82%A2%E3%82%AF%E3%82%BB%E3%82%B9%E5%9B%B3.pdf](https://yport.city.yokohama.lg.jp/wp-content/uploads/2021/07/GALERIO%E3%82%A2%E3%82%AF%E3%82%BB%E3%82%B9%E5%9B%B3.pdf)



12:00-13:20 December 2nd (Friday), 2022

Free Time for Lunch

13:30—16:35 December 2nd (Friday), 2022

Urban Environment and Energy Association Symposium

(Japanese program in next page)

Gathering Time: 13:20

Gathering Address:

TKP Garden City Premium Minato Mirai (TKP ガーデンシティ Premium みなとみらい)

For details: <https://www.kashikaigishitsu.net/facilitys/gcp-minatomirai/access/>

〒220-0012

神奈川県横浜市 西区みなとみらい3-6-3 MMパークビル 5F (事務所: 5F)



第29回 都市環境エネルギーシンポジウム

1. 主 催： 一般社団法人 都市環境エネルギー協会
2. 後 援： 国土交通省、環境省、横浜市 ※後援・協賛予定
協 賛： (一社)日本熱供給事業協会、(一財)ヒートポンプ・蓄熱センター
(一財)コージェネレーション・エネルギー高度利用センター
(一社)日本建築学会、(公社)空気調和・衛生工学会、(公社)日本都市計画学会
3. 日 時： 令和4年12月2日(金) 13:30~16:35
4. 会 場： 〒220-0012 神奈川県横浜市西区みなとみらい3丁目6-3 MMパークビル 5F
TKPガーデンシティ PREMIUM みなとみらい ホールE
5. 定 員： 120名

6. テーマ：「脱炭素化の都市づくりを考える」シンポジウム

7. プログラム：(敬称略)

- | | |
|-------------|--|
| 13:00~ | 開 場 |
| 13:30~13:35 | 開会の挨拶 当協会副理事長 荒井 義人 (清水建設㈱) |
| 13:35~14:00 | 基調講演「脱炭素社会と都市のエネルギーシステム」
横浜国立大学 副学長 佐土原 聡 |
| 14:00~14:20 | 基調報告「脱炭素化に向けたまちづくりに関する国土交通省の取組み」
国土交通省 大臣官房技術審議官 (都市局担当) 菊池 雅彦 |
| 14:20~14:40 | 基調報告「東京ガスグループのCO2 ネット・ゼロへの挑戦」
東京ガス㈱ 執行役員 法人営業本部長 小西 雅子 |
| 14:40~15:00 | 基調報告「脱炭素先行地域 横浜市の取組みと課題」
横浜市 温暖化対策統括本部 プロジェクト推進課長 松下 功 |
| 15:00~15:20 | <休 憩 (20 分)> |
| 15:20~16:30 | パネルディスカッション
【コーディネーター】
尾島 俊雄 (早稲田大学 名誉教授 (当協会理事長))
【パネリスト】
筒井 誠二 (環境省 環境再生・資源循環局 廃棄物適正処理推進課 課長)
中嶋 浩三 (非営利特別活動法人 アジア都市環境学会 理事 (当協会理事))
鎌田 秀一 (国土交通省 都市局 市街地整備課長)
清田 修 (東京ガス㈱ カスタマー&ビジネスソリューションカンパニー
企画部 エネルギー公共グループマネージャー)
佐土原 聡 (横浜国立大学 副学長) |
| 16:30~16:35 | 閉会の挨拶 当協会副理事長 西崎 太真 (三菱重工サーマルシステムズ㈱) |

出演者、演題は変更になる場合があります。

16:45—17:45 December 2nd (Friday), 2022

Moving to Welcome dinner & Accommodation

Gathering Time: 16:45

Gathering Address:

TKP Garden City Premium Minato Mirai (TKP ガーデンシティ Premium みなとみらい)

AIUE2022 has prepared the buses for all participants whether he/she joins in the 2nd December Japanese Symposium or not. Please gather at TKP Garden City Premium Minato Mirai(TKP ガーデンシティ Premium みなとみらい) Before 16:30.

19:00—20:30 December 2nd (Friday), 2022

Welcome dinner

Gathering Time: 18:50

Gathering Address:

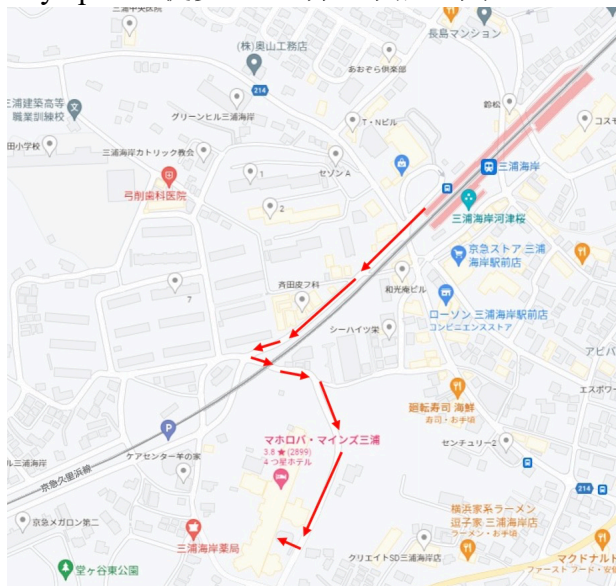
Venue: Maholova Minds Miura (マホロバマインズ三浦)

For details:

Hotel: <https://www.maholova-minds.com/>

Access: <https://www.maholova-minds.com/access/index.php>

6~8 minutes on foot, finally uphill. 徒歩 6~8 分(下記地図、→ルート)最後上り坂です。



We have prepared free shuttle bus at Keihin Kyuko "Miura Kaigan" station [三浦海岸駅発]. The bus stop is in front of the Keikyu Store (京急ストア前送迎バス乗り場).

Shuttle Bus Timetable

Miura Kaigan Station→Hotel (Maholova Minds Miura)			
9	05	25	45
10	05	25	45
11	05		35
12	05		35
13	05		35
14	05	25	45
15	05	25	45
16	05	25	45
17	05		35

December 3rd (Saturday), 2022

Venue: Yokohama National University

See [Access detail of the Onsite Rooms](#) in page 24 for information on how to get to Yokohama National University.

Yokohama National University

Access: <https://www.ynu.ac.jp/access/index.html>

Campus MAP: https://www.ynu.ac.jp/access/pdf/YNU_MAP_J.pdf

12/3 AM, S1-2, Education & Culture Hall (教育文化ホール)

12/3PM, S2-1, Lecture Building, Faculty of Urban Sciences (都市科学部講義棟)



8:00—9:00 December 3rd (Saturday), 2022

Moving to Yokohama National University

Gathering Time: 7:45

Gathering Address:

The lobby of Maholova Minds Miura (マホロバマインズ三浦のロビー)

9:00—9:30 December 3rd (Saturday), 2022

Participants enter the online meeting or Ceremony Hall

9:30—9:40 December 3rd (Saturday), 2022

Opening Ceremony

Gathering Time: 9:00

Gathering Address:

S1-2, Education & Culture Hall, Yokohama National University
(横浜国立大学教育文化ホール)

9:30—9:40 December 3rd (Saturday), 2022

Welcome Greeting

Toshio Ojima, Honorary Chairman of NPO-AIUE
Won-Hwa Hong, The President of AIUE,
President, Professor, Kyungpook National University
Kimio Yoshida, Chairman of NPO-AIUE
Satoru Sadohara, Professor, Yokohama National University

9:40—9:50 December 3rd (Saturday), 2022

Announcement of Conference Award

9:50—10:50 December 3rd (Saturday), 2022

Commemorative Speech

2020 Mohoroba Award
Prof. Satoshi Sudo, Tohoku Bunka Gakuen University, Professor and Dean
2022 Mohoroba Award
Ms. Akiko Kubota, Kajima Publishing Co.Ltd.
2022 AIUE-O Award(Best Paper Award)
Prof. Kwonhoo Kim, Pukyong National University, Assistant Professor
Prof. Congbao Xu, Qingdao University of Technology, Professor and Dean
Prof. Yusuke Nakajima, Kogakuin University, Professor

10:50—11:00 December 3rd (Saturday), 2022

Take gathering photo onsite and online

11:00 —12:30 December 3rd (Saturday), 2022

Keynote Speech

Mr. Kazumi Kobayashi, Former Vice Mayor
Topic: History and Future Prospects of Yokohama's Urban Development
主旨：横浜の都市づくりの歴史と今後の展望

12:30—13:30 December 3rd (Saturday), 2022

Lunch Break

Gathering Time: 12:30

Gathering Address:

S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University
(横浜国立大学都市科学部講義棟)

13:30—17:40 December 3rd (Saturday), 2022

Presentation Session

Gathering Time: 13:15

Gathering Address:

S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University
(横浜国立大学都市科学部講義棟)

13:30 – 15:30 Session-1

Onsite

Room A (101) : Urban Planning and Sustainable Development

Room B (103) : Energy and Environment

Room C (203) : Other

Room D (204) : Disaster and Safety & Architectural Design

Online

Room E: Urban Planning and Sustainable Development

Room F: Energy and Environment & Other

Room G: Architectural Design & Disaster and Safety

15:30 – 15:40 Break

15:40 – 17:40 Session-2

Onsite

Room A (101) : Urban Planning and Sustainable Development

Room B (103) : Energy and Environment

Room C (203) : Energy and Environment

Room D (204) : Disaster and Safety & Urban Planning and Sustainable Development

Online

Room E: Urban Planning and Sustainable Development

Room F: Water Environment & Urban Planning and Sustainable Development

NOTE:Yokohama National University has joined [edurome](https://www.edurome.com/), and if your organization is also a member of edurome, you can use Wi-Fi for free in the venue.

18:00—19:00 December 3rd (Saturday), 2022

Moving to Farewell dinner & Accommodation

Gathering Time: 17:50

Gathering Address:

S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University
(横浜国立大学都市科学部講義棟)

19:30—21:00 December 3rd (Saturday), 2022

Farewell dinner

Gathering Time: 19:20

Gathering Address:

Maholova Minds Miura (マホロバマインズ三浦)

December 4th (Sunday), 2022

Venue: The urban area of Yokohama

8:00—8:30 December 4th (Sunday), 2022

Check out

9:00—10:00 December 4th (Sunday), 2022

Move to the urban area of Yokohama

Bus Tour

Free activities(Yokohama Station)

10:00—12:00 December 4th (Sunday), 2022

Bus Tour- Minato Mirai 21 District Heating and Cooling (みなとみらい 21 熱供給)

For details: <https://www.mm21dhc.co.jp/>

12:00—13:00 December 4th (Sunday), 2022

Bus Tour- Lunch time

13:00—15:00 December 4th (Sunday), 2022

Bus Tour- Kohoku New Town Center Kita Commercial Facility “Aitai” (港北ニュータウン
センター北商業施設「あいたい」)

For details: <https://www.iti-town.com/>

Access: <https://www.iti-town.com/access-parking>

15:00 December 4th (Sunday), 2022

End the activity at Yokohama Station

Presentation Guidance for International Conference

Oral Presentation

Presentation Regulation	
Presentation	8 minutes
Discussion	4 minutes

The presentation time should be less than 12 minutes including presentation and discussion.

Presentation Room

	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F	ROOM G
Zoom ID	959 7352 1753	825 8889 1415	941 2214 8373	831 1063 7668	920 431 5145	853 7145 7114	874 5622 7355
Passcode	AIUE2022	AIUE2022	AIUE2022	AIUE2022	AIUE2022	AIUE2022	AIUE2022
Site	S2-1 Room 101	S2-1 Room 103	S2-1 Room 203	S2-1 Room 204	-	-	-

**Onsite presentation
Room A**

**Session-1 Urban Planning and Sustainable
Development 3rd Dec. 2022
13:30 – 15:30
in Tokyo time**

Chair: Jing Wang, Hong Ngoc Nguyen

Staff: Yuhang Yang, Kato (YNU)

	Authors/ Presenter	Title	Organization	Page
1	Hirotooshi Yoda	Calculation of Carbon Dioxide Emissions and Absorption in Fukuoka Prefecture	Kindai University	197
2	Ziting Wu, Weijun Gao, Huayue Xie, Jiahao Jiang, Xindong Wei	Study on Urban and Population Shrinkage in Urbanization Areas Based on Nighttime Light Data: Taking Jilin Province as an Example	The University of Kitakyushu	083
3	Taiga Ninomiya, Keiko Inagaki, Satoshi Yoshida, Satoru Sadohara	Study on Urban Agricultural Land Value in Yokohama, Japan for Allotment Utilization Potential Evaluation	Yokohama National University	313
4	Yihang Bai, Weijun Gao	Research on Economic Operation Scheduling Optimization of Microgrid System using Particle Swarm Optimization	The University of Kitakyushu	345
5	Aoba Fujisawa, Yukihiro Masuda	Study on Current Status of Disaster Risk Areas and Utilization of Unused Land 10 years after Great East Japan Earthquake	Shibaura Institute of Technology	231
6	Yufan Ren, Weijun Gao	Energy Consumption Simulation Analysis and Energy-saving Renovation of Residential Buildings Based on the BEST program Simulation Software	The University of Kitakyushu	251
7	Koki Ueda, Hiroto Takaguchi	Development of Daily Report LOD for Introduction of BIM to Maintenance Work	Waseda University	235
8	Tingting Yin, Weijun Gao, Xindong Wei, Minghao Zhang	Research on the Control Measures and Treatment Technology of Indoor VOCs Pollutants in China	The University of Kitakyushu	329
9	Ruka Saito, Hiroto Takaguchi	Research on Effective Expression for Evacuation Guidance	Waseda University	255
10	Jinming Wang, Dewancker Bart, Puhon Liu, Mingyu li	The Influence of Responsibility Awareness on Tourists' Responsible Environmental Behavior	The University of Kitakyushu	095

Onsite: Room 101, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 959 7352 1753; PASSCODE: AIUE2022

Onsite presentation
Room A

Session-2

**Urban Planning and Sustainable
Development**

3rd Dec. 2022
15:40 – 17:40
in Tokyo time

Chair: Hirotooshi Yoda, Ziting Wu

Staff: Tingting Yin, Kato (YNU)

	Authors/ Presenter	Title	Organization	Page
1	Hong Ngoc Nguyen, Hiroatsu Fukuda, Xuan Hinh Nguyen	Surface Water Survey and Localized Waterlogging Risk Assessment in Hanoi, Vietnam	The University of Kitakyushu	161
2	Shiyi Peng, Hironori Watanabe	Reproducibility Analysis of WRF Model in Urban Climate Research, A case Study of Sendai	Tohoku Institute of Technology	091
3	Kazuha Isomoto, Satoru Sadohara, Satoshi Yoshida, Keiko Inagaki	A Study on Waterfront Management and Utilization Through Regional Cooperation	Yokohama National University	289
4	Qiyuan Wang, Weijun Gao, Yuan Su	Analysis of Carbon Emission of Green Building in Operation Stage in Cold Coastal Climates: A Case Study in Dalian, China	The University of Kitakyushu	087
5	Zhanqianqian An, S. Uchiyama, Y. Bhattacharya, H. Nakamura	Efficacy of Infiltration Facilities to Prevent Urban Pluvial Flooding	Shibaura Institute of Technology	137
6	Qian Zeng, Xin Bao, Bart Dewancker	Association Between Built Environment on Transport and Recreational Walking in Japan: The Case of Kitakyushu	The University of Kitakyushu	149
7	Shihong Zeng, Chengxiu Wang, Weijun Gao	Air Quality Price Evaluation Based on the Real Estate Market	Beijing University of Technology	213
8	Jing Wang, Yufei Zang, Jiawen Zhang, Feiyong Chen, Guanhong Liu, Bing Liu, Toru Matsumoto	Life Cycle Assessment of Influencing Factors in Reed Hydrochar Preparation	Shandong Jianzhu University	219
9	Lingtong Xia, Yukihiro Masuda	Analysis of the Impact of Greening Policy Content on Greening Implementation - Comparative Study of Tokyo (Japan) and Chongqing (China) Spaces	Shibaura Institute of Technology	241
10	Xun Piao, Yuhang Yang, Long Xu	The Self-Organizing Urban Texture of Historical Blocks based on ArchiGAN	Qingdao University of Technology	271

Onsite: Room 101, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 959 7352 1753; PASSCODE: AIUE2022

Onsite presentation
Room B

Session-1

Energy and Environment

3rd Dec. 2022

13:30 – 15:30

in Tokyo time

Chair: Qiyuan Wang, Takahiro Ueno

Staff: Mengyuan Zhou, Chen (YNU)

	Authors/ Presenter	Title	Organization	Page
1	Koudai Hirata, Ziyan Ren, Kimiya Murakami	Improving the Efficiency of Smart Energy Networks in the Toyosu Wharf Area	Shibaura Institute of Technology	519
2	Qiao Ben, Yusuke Nakajima	Thermal Performance and Energy Consumption of Cold Region Houses in China	Kogakuin University	389
3	Qinfeng Zhao, Tian Wang, Weijun Gao, Zhenglin Xie	Dynamic Prediction Model of Building Stock and Flow at City Scale: A Case Study of Kitakyushu	The University of Kitakyushu	671
4	Si yuan Liu, Bart Dewancker, Xin Bao	Living Environment and Energy Consumption of China Mid-western Urban Cluster in Erdos City	The University of Kitakyushu	459
5	Mashiho Okutsu, Tomoki Hotta, Yusuke Nakajima	Research on the Operation of a Small-Scale Biomass District Heat Supply System for a Group of Houses	Kogakuin University	393
6	Yusuke Yamashita, Yusuke Nakajima	BEMS Analysis of Consumers in the Nishi-Shinjuku Area for AEMS Construction	Kogakuin University	411
7	Yuechen Duan, Tao Zhang, Zhuangqing Jiao, Xin Ye, Qinian Hu, Weijun Gao	A Field Study on Thermal Comfort Status of Vernacular Dwellings in Cold Regions of China, Taking Linyi as An Example	Qingdao University of Technology	507
8	Moeri Yoshii, T. Ueno, H. Takaguchi, T. Kihara, T. Yamamoto, J. Oh, D. Sumiyoshi	Measurement Survey to Evaluate Energy Saving Performance of Office Space by IoT Devices	Waseda University	415
9	Yunho Kim, Hyuncheol Seo, Jungha Hwang	Comparative Analysis of Heat-absorbing Plate Material Performance for Weight Reduction of Curtain Wall-type Photovoltaic Thermal System	Kyungpook National University	543
10	Yi Yu, Weijun Gao, Hongwei Tan	Assessing Campus Carbon Emissions under the Impact of the Epidemic Outbreak: A Case Study of The University of Kitakyushu	The University of Kitakyushu	475

Onsite: Room 103, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 825 8889 1415; PASSCODE: AIUE2022

Onsite presentation
Room B

Session-2

Energy and Environment

3rd Dec. 2022

15:40 – 17:40

in Tokyo time

Chair: Xin Bao, Siyuan Liu

Staff: Yi Yu, Chen (YNU)

	Authors/ Presenter	Title	Organization	Page
1	Yusuke Sekiguchi, Yusuke Nakajima	Research on Indoor Environment and Energy Consumption in Classrooms	Kogakuin University	385
2	Mengyuan Zhou, Weijun Gao, Xilian Luo, Haiming Yu	A Review of the Application and Development of Naturally Ventilated Photovoltaic Curtain Wall in Buildings	The University of Kitakyushu	465
3	Hiroto Takaguchi, Shuntaro Nishiiri	Future Projections and Control of Residential Energy Consumption in Cambodia	Waseda University	499
4	Ryuhei Tanaka, Yusuke Nakajima	Study of Constructing Way of AEM in Nishi-Shinjuku DHC Area	Kogakuin University	447
5	Ziyan Ren, Seishirou Murakami, Kimiya Murakami, Satoshi Yoshida, Youichi Miyata, Satoru Konishi, Kunimi Kobayashi	Study on Commissioning of District Heating and Cooling System----- Analysis of Operation Performance Data in the Second Year	Shibaura Institute of Technology	539
6	Rintaro Furuta, Satoshi Yoshida, Satoru Sadohara, Keiko Inagaki	Research on Air Conditioning Control According to Human Flow and Space Environment in Underground Malls	Yokohama National University	425
7	Takahiro Ueno	Capturing Changes in Residential Energy Consumption due to Working from Home in Japan Questionnaire Survey of Winter Households	Waseda University	369
8	Shudi Wang, Ran Cheng	Study of Indoor Air Quality in Heated Dormitories in Northern China	Qingdao University of Technology	557
9	Atsuki Ota, Hiroto Takaguchi, Tatsuto Kihara, Taro Hongo	A Study on the Effect of Rooftop Vegetable Garden Activities on Intellectual Productivity and Building Favorability	Waseda University	429
10	Makoto Nishiuchi, Hiroshi Miyazaki	Building Facilities Classification Using Unsupervised Learning at Kansai University	Yokohama National University	553

Onsite: Room 103, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 825 8889 1415; PASSCODE: AIUE2022

Onsite presentation
Room C

Session-1		Other	3rd Dec. 2022 13:30 – 15:30 in Tokyo time	
Chair: R. S. Agustiningtyas, Zaiqiang Liu		Staff: Shudi Wang, Yang (YNU)		
	Authors/ Presenter	Title	Organization	Page
1	Dong-Min Seo, Seung-Chan Baek, Wook-Jung Na, Won-Hwa Hong	A study on RMSE comparative analysis of Ortho-image based on GNSS and RTK UAV images	Kyungpook National University	619
2	Treza Chandra Julian, Hiroatsu Fukuda, Suraya Shaban	Trends of Indonesian Albizia falcataria Wood Product in Domestic and Japanese Market	The University of Kitakyushu	627
3	Hyun-Jung Woo, Dong-Min Seo, Min-Seok Kim, Seung-Chan Baek, Won-Hwa Hong	Production and Accuracy Analysis of Cadastral Map Using an Unmanned Aerial Vehicle	Kyungpook National University	623
4	Amami Mitsune, Hiroatsu Fukuda	Fundamental research on an environmental device using an expression technique to project shadows created by the setting sun on a wall	The University of Kitakyushu	633
5	Kibeom Kim, Junghoon Lee, Kwonhoo Kim	Effect of Ca precipitation on texture development of AZ61 magnesium alloy during high temperature deformation	Pukyong National University	637
6	Anastasia Evangelista Sumanti, Gabriela Emilly Xian, Didit Novianto	Sustainable Architectural Evolution based on the Effects of Pandemics	Sepuluh Nopember Institute of Technology	651
7	Yebeen Ji, Seongmook Cho, Kwonhoo Kim	Effect of strain rate on texture formation behavior of AZ80 magnesium during high temperature plane strain compression	Pukyong National University	641
8	Hye Min Jang, Young-Hoon Bae, Jong Yeong Son, Won-Hwa Hong, Jung Ha Hwang	Analysis of walking speed according to cluster analysis of the Korean commercial building type market	Kyungpook National University	661
9	Anna Won, Ji-Ae Lee, Won-hwa Hong	A Study on Integrated Management of Life-responsive Data to Secure Social Safety Net for the Vulnerable Class	Kyungpook National University	665
10	YunHa Park, JungHa Hwang	Analysis of the Airborne Viral Infections Distribution in an Outpatient Department Reflecting the Action Variables of Hospital Visitors	Kyungpook National University	657

Onsite: Room 203, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 941 2214 8373; PASSCODE: AIUE2022

Onsite presentation
Room C

Session-2

Energy and Environment

3rd Dec. 2022

15:40 – 17:40

in Tokyo time

Chair: Anna Won, Treza Chandra Julian

Staff: Yufan Ren, Yang (YNU)

	Authors/ Presenter	Title	Organization	Page
1	Tomoki Hotta, Yusuke Nakajima	Research on Home Decarbonized Heating Systems Using Solar and Biomass Heat	Kogakuin University	377
2	Wontaek Ryu, Woo-Seung Yun, Ye-Bon Jo, Hyuncheol Seo, Won-Hwa Hong	Analysis of Expected Carbon Reduction in Korean Public Buildings through Renovating Projects	Kyungpook National University	479
3	Mina Umezawa, Hiroto Takaguchi	Research and study on controlling the types of members used in conventional shaft assembly method	Waseda University	443
4	Rudi Setiadji Agustiningtyas, Hiroto Takaguchi, Fefen Suhedi	Multi-layer Walls Environmental Assessment for Affordable Apartment Design	Waseda University	455
5	Shoichiro Furuta, Hiroto Takaguchi	Development of a Competitive Card Game to Lean the Living Environment	Waseda University	469
6	Kazuki Sano, Satoshi Yoshida, Satoru Sadohara, Keiko Inagaki	Effect of improvement of thermal insulation performance on heating and cooling loads in small office buildings -Comparison between Tokyo and Danang, Vietnam-	Yokohama National University	491
7	Naoki Tsuchiya, Kimiya Murakami	Study on the optimal operation support system of a heat source system using actual operation data	Shibaura Institute of Technology	523
8	Ayaka Funada, Kazuma Ozawa, Kimiya Murakami	Collaboration between heat supply district and new regional electric power	Shibaura Institute of Technology	527
9	Seishiro Murakami, Kimiya Murakami	Energy Efficiency to Reinforce the Medical Practice Continuity Plan in Disaster Base Hospitals	Shibaura Institute of Technology	531
10	Kazuma Ozawa, Ayaka Funada, Kimiya Murakami	Construction of a combined heat and power system and survey of new local electric power	Shibaura Institute of Technology	535

Onsite: Room 203, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 941 2214 8373; PASSCODE: AIUE2022

Onsite presentation
Room D

Session-1

**Disaster and Safety &
Architectural Design**

3rd Dec. 2022
13:30 – 15:30
in Tokyo time

Chair: Chu Zhang, Jialu Dai

Staff: Zihan Guo, Hoshioka (YNU), Ikeda (YNU)

	Authors/ Presenter	Title	Organization	Page
1	Woo-Jin Lim , Ji-Hun Kim, Ryun-Seok Oh, Yeong-Hoon Bae, Jun-Ho Choi	Analysis of Deployment Time and the Number of Kinks based on Fire Hose Load Types of Indoor Fire Hydrant System	Pukyong National University	611
2	Aqing Chen , Hironori Watanabe	ZEB Renovation of Abandoned Elementary School Building A case study in BIM design	Tohoku Institute of Technology	001
3	Ji-Won Gu , Ryun-Seok Oh, Jun-Ho Choi	A Survey of Actual Field Conditions to Derive Standards for the Loudness of the Sounds of Emergency Public Addresses Spaces	Pukyong National University	615
4	Yafei Wang , Weijun Gao, You Li	Load Leveling Performance Analysis of Virtual Power Plant in Smart Community - A case study in Japan	The University of Kitakyushu	419
5	Uranaka Hayato , Tao Zhang, Hiroatsu Fukuda	Potential research on compressed wood using Japanese cedar: Comparison of single log compression and small piece compression	The University of Kitakyushu	057
6	Rusyda Tamma Hidayat , G. E. Xian, A. R. Siregar, A. E. Sumanti, D.Novianto	Evaluation toward BIM Learning Process: Case Study on Revit Integration	Institut Teknologi Sepuluh Nopember	065
7	Yue Xu , Hiroatsu Fukuda	Analysis and Solution of Excessive Humidity and Condensation in a Nori Product Pricing and Distribution Facility	The University of Kitakyushu	061
8	Zhirui Wu , Yuan Su, Weijun Gao, Shipeng Lyu	Investigation and analysis of indoor thermal environment of existing residential buildings in Dalian	Dalian University of Technology	023
9	Huayue Xie , Weijun Gao, Xindong Wei, Ziting Wu	Feasibility Analysis of Rainwater Harvesting System Introducing Non-potable Water Tariffs	The University of Kitakyushu	581
10	Xin Bao , Zhang Tao, Bart Dewancker	Development Status and Design Trends for Spatial Layout of Multi-unit Residential Building during the Post-pandemic Era in China	The University of Kitakyushu	029

Onsite: Room 204, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 831 1063 7668; PASSCODE: AIUE2022

Onsite presentation
Room D

Session-2	Disaster and Safety & Urban Planning and Sustainable Development	3rd Dec. 2022 15:40 – 17:40 in Tokyo time
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Chair: Qinfeng Zhao, Jinming Wang

Staff: Zhirui Wu, Hoshioka (YNU), Ikeda (YNU)

	Authors/ Presenter	Title	Organization	Page
1	You Li, Hiroatsu Fukuda, Yafei Wang	Optimum Sizing of Commercial Photovoltaic Battery System for Load Leveling	The University of Kitakyushu	381
2	Park Choon-Wook	Development of Disaster Management System (DMS) for Public Facilities of TAEGU based on IoT	Kyungpook National University	607
3	Jiajing Lin, Shun Uchiyama, Yasmin Bhattacharya, Hitoshi Nakamura	Efficacy of Rain Barrels and Rain Gardens to Reduce Urban Pluvial Flooding	Shibaura Institute of Technology	131
4	Shuma Takamori, Hironori Watanabei	Examination of Effective Evacuation Support in the Event of Flood Damage Based on Evacuation Experiments	Tohoku Institute of Technology	595
5	Jialu Dai, Bart Dewancker	Research on the influence of building enclosure type and building orientation on indoor thermal comfort of traditional dwellings in summer---A case study of Kashgar city in China	The University of Kitakyushu	005
6	Chu Zhang, Young-Hoon Bae, Won-Hwa Hong	A Survey Study of Evacuation Guidance System Demand for Users	Kyungpook National University	599
7	Rui Zhou, Hiroatsu Fukuda	Does Urban Living Experience Affect Willingness to Pay for Clean Air? A study based on China General Social Survey	The University of Kitakyushu	293
8	Haolin Yang, Weijun Gao, Xindong Wei, Qinfeng Zhao	Sudy on Environmental, Economic and Social Benefits of Wooden Buildings in The Context of Regional Decarbonization Policy in Japan	The University of Kitakyushu	335
9	Shimeng Wang, Tao Zhang, Hiroatsu Fukuda	Comprehensive Analysis of Energy, Economic and Environmental performance of double-layer trombe wall in heating season	The University of Kitakyushu	107
10	Zihan Guo, Yumeng Meng, Mei Lyu, Chen Qiu	Research Trends and Hotspot Analysis of Healthy City Based on CiteSpace Software	Shenyang Jianzhu University	317

Onsite: Room 204, S2-1, Lecture Building, Faculty of Urban Sciences, Yokohama National University

Online: ZOOM Room ID: 831 1063 7668; PASSCODE: AIUE2022

Online presentation
Room E

Session-1

**Urban Planning and Sustainable
Development**

3rd Dec. 2022
13:30 – 15:30
in Tokyo time

Chair: Xuan Ma, Zhou Congyue

Staff: He Xiujuan, Xie Zhenglin

	Authors/ Presenter	Title	Organization	Page
1	Longhao Zhang , Jun Wu, Pengbo Li, Jiali Dong, Tianrun Wang	Decoding the Streetscape Space: New Insights from Baidu Street View and Deep Learning	Tianjin Chengjian University	207
2	Mosissa Samuel , Shen Zhongwei, Eyob Abel	Green infrastructure Concept and Principles to Enhance Urban Environment	Southwest Jiaotong University	143
3	Yang Xu , Weijun Gao, Yanxue Li	Operational optimization for grid-connected residential PV-battery system using deep reinforcement learning	The University of Kitakyushu	077
4	Suiping Zeng, JiaHao Zhang , Jian Tian	Study on the performance of "scale-type" differential urban park cooling	Tianjin Chengjian University	101
5	Hang Yu, Meng Wang	A Two stage Clustering Method to Generate Prototype Residential Buildings	Tongji University	113
6	Liu Yang, Zhixing Luo, Nan Zhang , Yujie Cang	Calculating and mapping carbon emissions from urban building stocks	Xi'an University of Architecture and Technology	119
7	Dekui Li , Shubo Du, Ge Kou	Research on Cascading Failure of Urban Rail Transit Network Under Flood Disaster	Liaocheng University	125
8	Xingyu Wang , Wenfei Yao, Tian Meng	Spatial Pattern and Equity Evaluation of Urban Park: A Case Study of Shinan District, Qingdao	Qingdao University of Technology	155
9	Enping Chen , Tao Zhang, Hiroatsu Fukuda	Design Phase Cost Management in Chinese Real Estate - Nanjing HST Project as an Example	The University of Kitakyushu	167
10	Sihan Liu , Yuan Su, Aruhan Gong, Qinfeng Zhao	Green design and energy optimization strategies for community activity centers	Dalian University of Technology	173

Online: ZOOM Room ID: 920 431 5145; PASSCODE: AIUE2022

Online presentation
Room E

Session-2

**Urban Planning and Sustainable
Development**

3rd Dec. 2022
15:40 – 17:40
in Tokyo time

Chair: Jiayi Shi, Mosissa Samuel

Staff: He Xiujuan, Xie Zhenglin

	Authors/ Presenter	Title	Organization	Page
1	Tiantian Peng , Yuan Su, Shouwei Li	Transformation of Qingdao Liyuan Historic Block under Cultural Export	Dalian University of Technology	177
2	Xuan Ma , Jingyuan Zhao, Han Feng	A study about the evaluation the performance of the surface-plant-air interactions beneath the elevated building with a 3D numerical model	Chang'an University	187
3	Meiqi Yang , Mei Lyu, Jiaqi Tong, Dong Yue, Mingqi Gan	Assessing the Building Color Quality of urban commercial pedestrian street: Taking Shenyang Middle Street as an Example	Shenyang Jianzhu University	207
4	Congyue Zhou , Zhu Wang, Rui Guo, Yuan Sun, Xiaoqing Zhu	Cross-county Carbon Governance in Zhejiang Province, China under Rescaling and Institutional Embedding	Zhejiang University	225
5	Lelin Chen , Chaolin Gu	Research on Decarbonization based on Carbon Emission Intensity: Case of Xingan Autonomous Prefecture, Inner Mongolian AR, China	Tsinghua University	245
6	Keju Liu , Dian Zhou, Mengying Wang	Exploring the layout of “15-minute community-life circle” based on POI and walkability performance of residents: a case study in the old town of Xi’an, China	Xi'an Jiaotong University	265
7	Kexin Ding, Jun Xu, Hui Yang , Wenqing Yang	Social satisfaction evaluation in urban physical examination -- a case study of Qingdao	Qingdao University of Technology	277
8	Hongchi Zhang , Jin Bai, Fei Guo	Study on the factors influencing the thermal environment of urban squares in a coastal city, Dalian	Dalian University of Technology	283
9	Xiaoxiang Zhan , Weirong Zhang, Yifei Bai, Jingjing Wang	Research on low-carbon transformation strategy of existing buildings based on half-life cycle calculation	Beijing University of Technology	297
10	Yuyao Xu	Research on the impact of climate change on cultural heritage in coastal areas and its sustainable development path	The University of Melbourne	301

Online: ZOOM Room ID: 920 431 5145; PASSCODE: AIUE2022

Online presentation
Room F

Session-1

**Energy and Environment &
Other**

3rd Dec. 2022
13:30 – 15:30
in Tokyo time

Chair: He Xincheng, Wang Tian

Staff: Zhang Tianyang, Xu Murong

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1	Jing Wang, Xi Meng, Gao Weijun	Effect of facade reflectivity on energy consumption of high-rise buildings in the Cold Zone	The University of Kitakyushu	363
2	Qiaochu Liu, Yuan Su, Zhirui Wu	Green renovation of existing school buildings in Chongqing	Dalian University of Technology	397
3	Qihui Zhang, Jingyuan Zhao	Study of the correlation between UHI intensity and land use in Xi'an, China	Chang'an University	403
4	Feifei Su, Chao Chen, Zhiyong Li, Yi Yang, Dongya Guan	Analysis of Energy Consumption Characteristics of Large Airport Terminal: A Case Study of an Airport in Beijing	North China University of Technology	433
5	Jiahao Jiang, Weijun Gao, Soichiro Kuroki, Jianan Liu	Research on Model Construction of Power Supply and Demand in Ikinoshima based on VPP System	The University of Kitakyushu	451
6	Guanjie He, Yanxue Li, Yang Xu	Using deep reinforcement learning to optimize the economic performance of residential microgrid energy system	Qingdao University of Technology	483
7	Yifei Bai, Weirong Zhang, Xiaoxiang Zhan, Jingjing Wang	Study on energy supply framework for buildings based on multi-energy complementary theory	Beijing University of Technology	495
8	Canning Yu, Shifen Li	Renewal Method of Rural Houses in Chinese Northern Coastal Area from Heating Energy-Saving Perspective	Dalian University of Technology	513
9	Wensheng Mo, Bart Dewanker, Liu Zaiqiang	Development and application of future design meteorological data for assessing building performance in China	The University of Kitakyushu	547
10	Chaoran Wang, Da Wan, Xinyu Shi	Towards on-site robotic construction: A review of research on mobile robot localization and target grasping	Qingdao University of Technology	645

Online: ZOOM Room ID: 853 7145 7114; PASSCODE: AIUE2022

**Online presentation
Room F**

Session-2	Water Environment & Urban Planning and Sustainable Development	3rd Dec. 2022 15:40 – 17:40 in Tokyo time
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Chair: Canning Yu, Yifei Bai

Staff: Zhang Tianyang, Wang Tan

	Authors/ Presenter	Title	Organization	Page
1	Xingguo Wang, Hiroatsu Fukuda	Exploration of Molecularly Imprinted Membrane for Ciprofloxacin Filtration	The University of Kitakyushu	561
2	Lingxiao Fu, Weijun Gao	Formation of disinfection byproducts in the pipe networks	The University of Kitakyushu	565
3	Chunyan Shi, Weijun Gao, Xindong Wei, Tongyu Xu, Xia Feng, Xinyue Miao	Benefit analysis of rainwater reuse based on sponge city construction concept	The University of Kitakyushu	569
4	Yue Wang, Hiroatsu Fukuda, Weijun Gao, Guofu Yang, Yijun Lu	Comprehensive evaluation of urban wetland parks in Hangzhou based on the AHP model	The University of Kitakyushu	575
5	Huaijiang Bin, Hua Meng, Xiaofeng Xie, Qing Qiao, Fengwei Yang, Yingjun Ruan	Water pump energy consumption data preprocessing based on correlation	Tongji University	585
6	Mengying Wang, Keju Liu, Dian Zhou	A comparative study of daily life circles in China and Japan	Xi'an Jiaotong University	305
7	Yuxin Guo, Huijuan Li, Dian Zhou	Renewal strategy of the healing environment in the Old Community based on the perception of the elderly	Xi'an Jiaotong University	309
8	Lifei Song, Weijun Gao, Qifen Li, Liting Zhang, Yongwen Yang	SWOT Analysis of Shanghai Hydrogen Fuel Cell Vehicle Industry Development	Shanghai University of Electric Power	323
9	Yinying Zhang, Weiguo Zhou, Yingjun Ruan, Hua Meng, Fanyue Qian	The influence of spatial form and microclimate on regional load	Tongji University	351
10	Anbang Dai, Junru Wang, Junpeng Fan, Hiroatsu Fukuda	A Comparison of Ancient Villages of Qinchuan and Urban Tourist Streets with Computer Vision	The University of Kitakyushu	203

Online: ZOOM Room ID: 853 7145 7114; PASSCODE: AIUE2022

Online presentation
Room G

Session-1

**Architectural Design &
Disaster and Safety**

3rd Dec. 2022
13:30 – 15:30
in Tokyo time

Chair: Yue Wu, Keju Liu

Staff: Tian Lei, Wang Tan

	Authors/ Presenter	Title	Organization	Page
1	Han Jiang	Scientometric Analysis of Post-Occupancy Evaluation Research: Development, Frontiers and Main Themes	Nanjing Tech University	011
2	Min-Seok Kim , Hyun-Jung Woo, Dong-Min Seo, Seung-Chan Baek, Won-Hwa Hong	Accuracy Analysis of SDI-Based Building Spatial Information	Kyungpook National University	041
3	Zhuangqing Jiao , Tao Zhang, Yuechen Duan, Qinian Hu, Weijun Gao	A Study on Winter Indoor Thermal Environment of Coastal Rural Dwellings Based on The Comfort of The Elderly in Qingdao, China	Qingdao University of Technology	017
4	Pan Lyu , Yuan-Long Zhang, Young-Chan Kim, Jung-Ha Hwang	Problems and Improvement Measures in the Dismantling and Removing of Asbestos Containing Building Materials	Kyungpook National University	603
5	Meng Wang , Da wan, Weijiu Cui, Xinyu Shi	Review on the research of correlation between the performance of 3D-printed concrete wall component and its printing form control	Qingdao University of Technology	035
6	Haining Zhou , Xinyu Shi, Da Wan, Hiroatsu Fukuda	A Review of Sustainable Plastic Application in Architectural Components	The University of Kitakyushu	051
7	Dongxue Fu , Juan Ren, Xuan Ma	Improve Building Performance Based on POE Result: A Dormitory Case in Xi'an	Chang'an University	045
8	Luan Huiling , Li Jun, Yang Ruifeng, Zheng Qi, Cheng Shuai	Research on Intelligent Monitoring and Early Warning System for Modern Brick and Wooden Historic Buildings	Qingdao University of Technology	591
9	Woo-Seung Yun , Seung-ho Sung, Wontaek Ryu, Hyuncheol Seo, Won-Hwa Hong	Automated Method for Estimating Infiltration Using CO ₂ Generated by Occupants in Office with Fixed Windows	Kyungpook National University	439
10	Haiming Yu , Hiroatsu Fukuda, Mengyuan Zhou	Spatial Microclimate Measurement and Analysis of the Typical Historical Square	The University of Kitakyushu	183

Online: ZOOM Room ID: 874 5622 7355; PASSCODE: AIUE2022

Access the Onsite Rooms

Conference Lectures and Research Presentations

Yokohama National University

Access: <https://www.ynu.ac.jp/access/index.html>

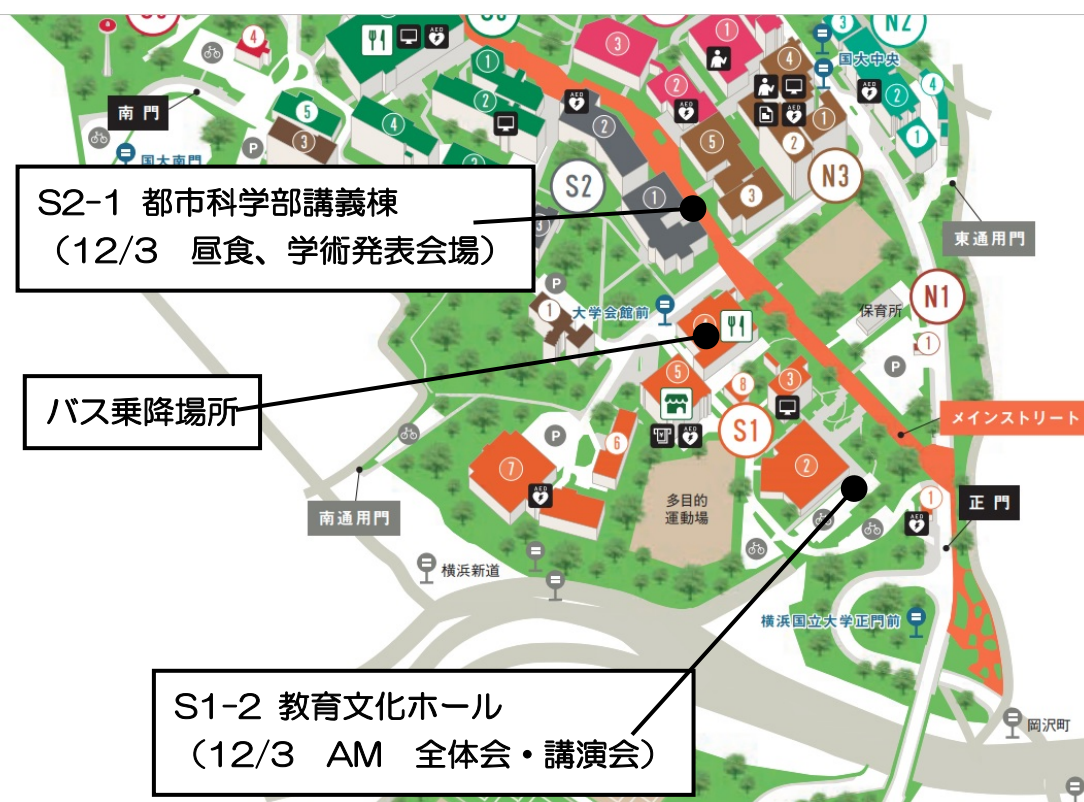
For English: <https://www.ynu.ac.jp/english/about/access/access/>

Campus MAP: https://www.ynu.ac.jp/access/pdf/YNU_MAP_J.pdf

For English: https://www.ynu.ac.jp/english/about/access/map/pdf/YNU_MAP_E.pdf

S1-2, Education & Culture Hall (教育文化ホール), 12/3 AM

S2-1, Lecture Building, Faculty of Urban Sciences (都市科学部講義棟), 12/3PM



How to access Yokohama National University

- Walk from Wadamachi Station (uphill, approx. 20 min.)
- Walk from Misuzawa Kamimachi Station (flat, approx. 20 min.)
- Walk from Hazawa Yokohama Kokudai Station (uphill, approx. 20 min.)
- Taxi from Yokohama Station (approx. 15 min.) **Recommended**
- Bus from Yokohama Station (approx. 15 min.) **Recommended**

※There is no on-campus bus service due to the holiday.

Yokohama Station West Exit Bus Stop No. 10

Take Sotetsu Bus No. 10 bound for Yokohama Station West Exit or No. 5 bound for Yokohama West Exit (via Kotsu Court) and get off at Okazawa-cho.



Yokohama Station West Exit Bus Stop



Access from Okazawa-cho bus stop

101 講義室
ON SITE ROOM A (101) 228

102 講義室
LUNCH ROOM & LOUNGE (102) 6.00 212

103 講義室
ON SITE ROOM B (103) 228

104 講義室 81

105 講義室 50

106 講義室 86

107 講義室 81

108 倉庫 38

廊下 234

ホール

便所 (多) 5

便所 (女) 5

PS

(7)

(8)

UP

1.00 2.45 0.60 1.76 1.23 3.41

4.60 1.00 2.10 5

12

2.60 1.02 a 準備室 16

The floor plan of the 2nd floor includes the following details:

- Rooms 201-202:** Located at the top left, both labeled "講義室" (Lecture Room). Room 201 has a width of 135 and a height of 81. Room 202 has a width of 81 and a height of 135.
- Balcony:** Labeled "バルコニー" (Balcony), located between rooms 202 and 203, with a width of 81.
- Stairs:** Labeled "DN" (Down), located between the balcony and room 203.
- Room 203:** Highlighted in green, labeled "ONSITE ROOM C (203)". It has a width of 135 and a height of 81.
- Corridor:** Labeled "廊下" (Corridor), located between rooms 203 and 204, with a width of 220.
- Rooms 205-207:** Located at the bottom left. Room 205 has a width of 50 and a height of 86. Room 206 has a width of 81 and a height of 86. Room 207 has a width of 81 and a height of 81.
- Restroom:** Labeled "便所 (男)" (Men's Restroom), located between rooms 205 and 206, with a width of 31.
- Room 204:** Highlighted in green, labeled "ONSITE ROOM D (204)". It has a width of 135 and a height of 81.
- Other Features:** A "吹抜" (Atrium) area is shown between rooms 205 and 206, with a width of 2.00.

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Access the Zoom Meeting Rooms

1. Download Zoom®

Download Zoom according to the platform which you will be using to access the conference:

<https://zoom.us/download>



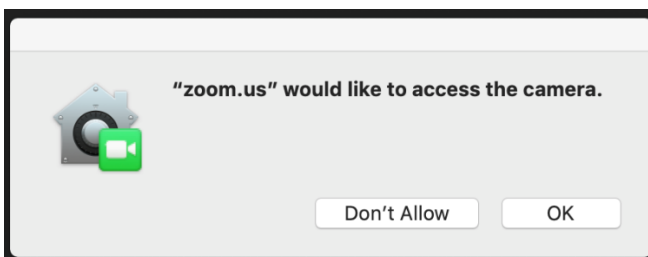
Zoom Mobile Apps

If you wish to use mobile devices to join the conference, please download Zoom at the following links:



2. Using the Zoom Client and Zoom Rooms with macOS

Due to increased security and permissions with Mac OS 10.14 Mojave and 10.15 Catalina, you will be prompted to authorize the Zoom Desktop Client and Zoom Rooms to use the microphone, camera, and on Mac OS 10.15 Catalina, screen recording. You will also be prompted to allow the Zoom Desktop Client to allow others to remotely control your desktop. You can click **OK** during the initial request and you will be able to use your microphone and camera in Zoom.



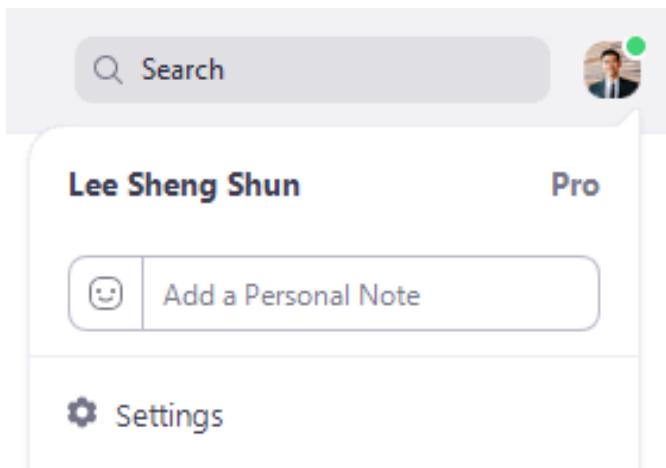
If you do not allow Zoom access during this initial prompt or the camera, microphone, and remote control access become disabled, you will need to go into your OS System Preferences to allow access.

<https://support.zoom.us/hc/en-us/articles/360016688031-Using-the-Zoom-Client-and-Zoom-Rooms-with-macOS>

2.1 Testing your video before a meeting (Windows/Mac)

1. Sign into the Zoom client.

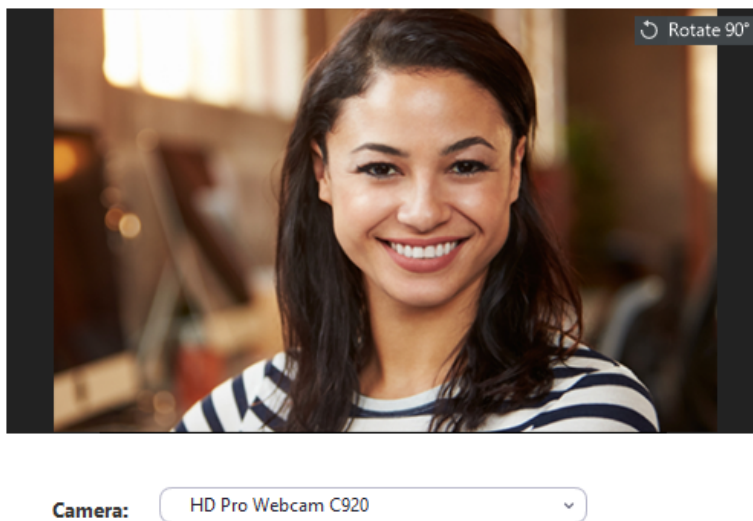
2. Click your **profile picture**, then click **Settings**.



3. Click the **Video** tab.



4. You will see a preview video from the camera that is currently selected; you can choose a different camera if another one is available.

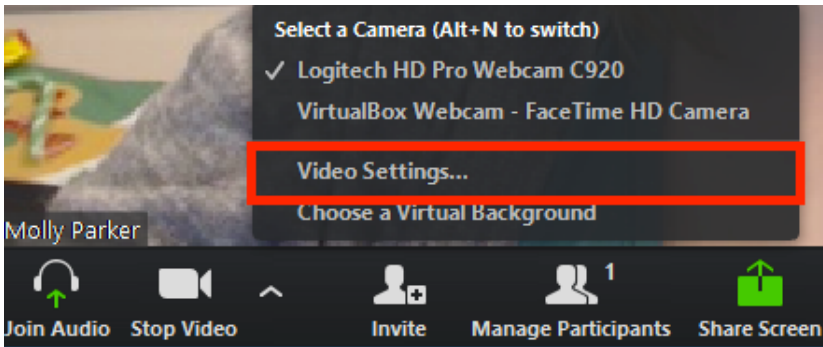


2.2 Testing your video while in a meeting (Windows/Mac)

1. Click the arrow next to **Start Video / Stop Video**.



2. Select **Video Settings**.



Zoom will display your camera's video and settings.



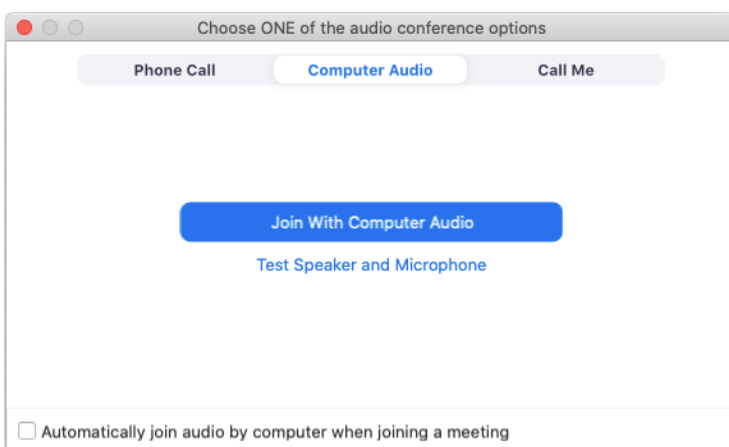
Camera: HD Pro Webcam C920

3. If you don't see your camera's video, click the **drop-down menu** and **select another camera**.
You can rotate your camera if needed.

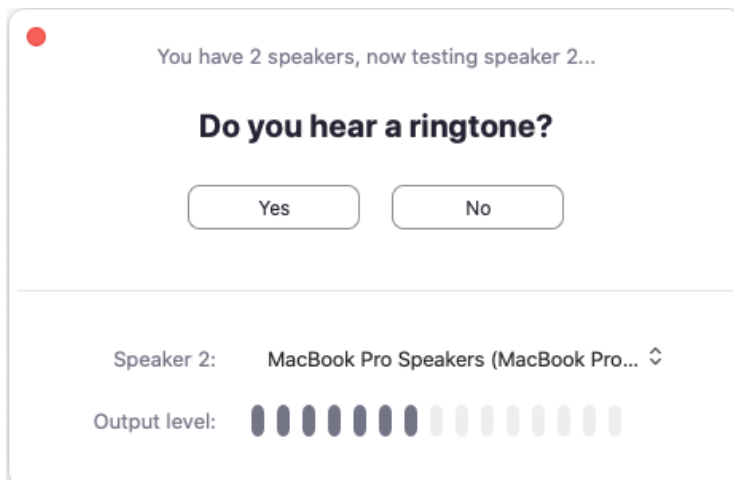
2.3 Testing audio before joining a meeting (Windows/Mac)

If you haven't enabled the setting to automatically join by computer audio, you can test your speaker and microphone before joining a meeting:

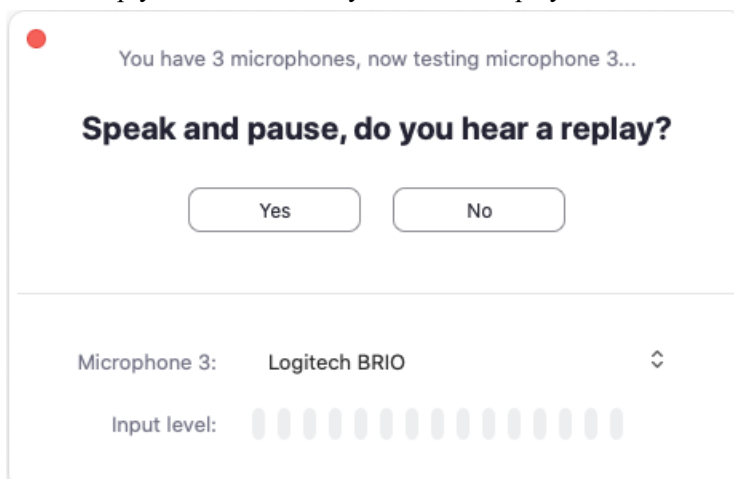
1. After joining a meeting, click **Test Speaker and Microphone**.



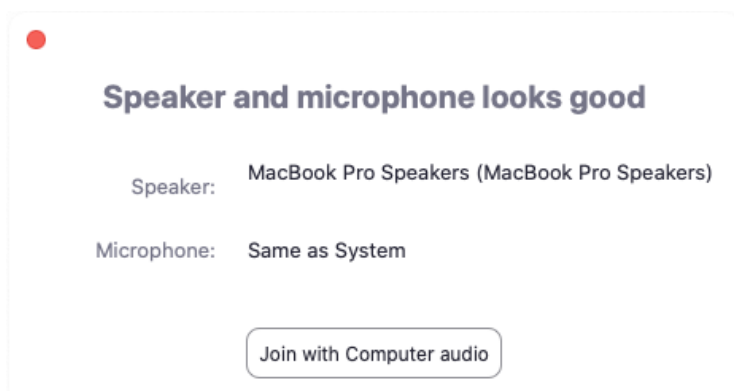
- The meeting will display a pop-up window to test your speakers. If you don't hear the ringtone, use the drop-down menu or click **No** to switch speakers until you hear the ringtone. Click **Yes** to continue to the microphone test.



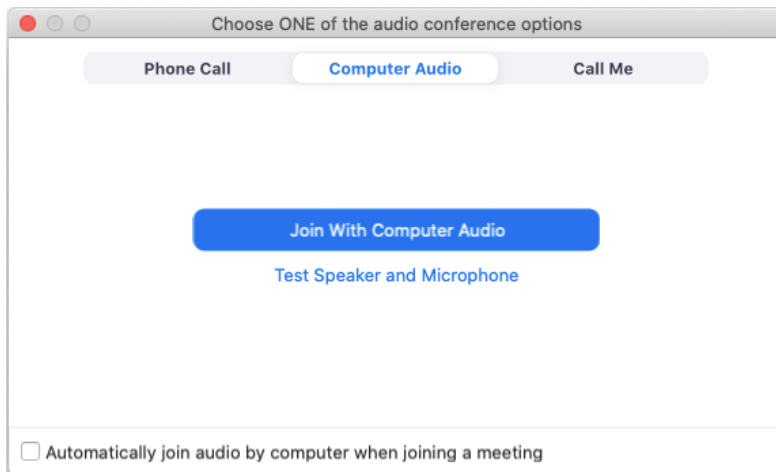
- If you don't hear an audio replay, use the drop-down menu or click **No** to switch microphones until you hear the replay. Click **Yes** when you hear the replay.



- Click **Join with Computer audio** to exit the speaker and microphone test.



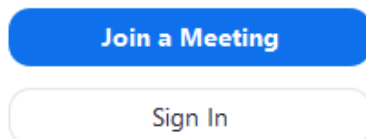
- Click **Join with Computer Audio** to join the test meeting with the selected microphone and speakers.



[Learn more about audio settings.](#)

3. Access the Zoom Meeting Room

1. Open the Zoom desktop client.
2. Join a meeting using one of these methods
 - Click **Join** a Meeting if you want to join without signing in.



- Sign in to Zoom then click **Join**.



Join

3. Enter the meeting ID number and your display name.
 - If you're signed in, change your name if you don't want your default name to appear.
 - If you're not signed in, enter a display name.

Join a Meeting

Meeting ID or Personal Link Name ▼

Grant MacLaren

☐ Do not connect to audio

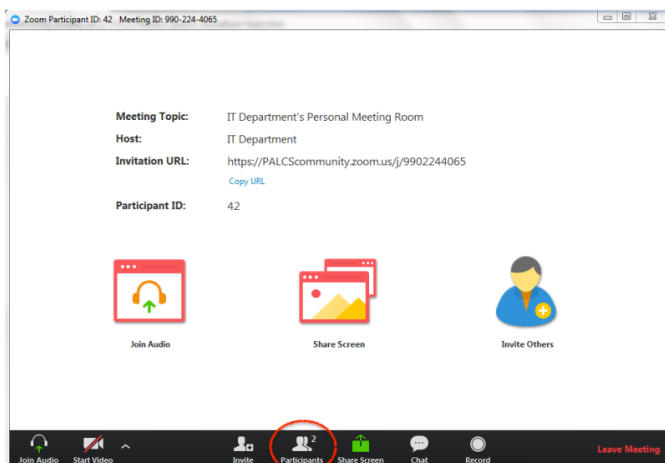
☐ Turn off my video

Join **Cancel**

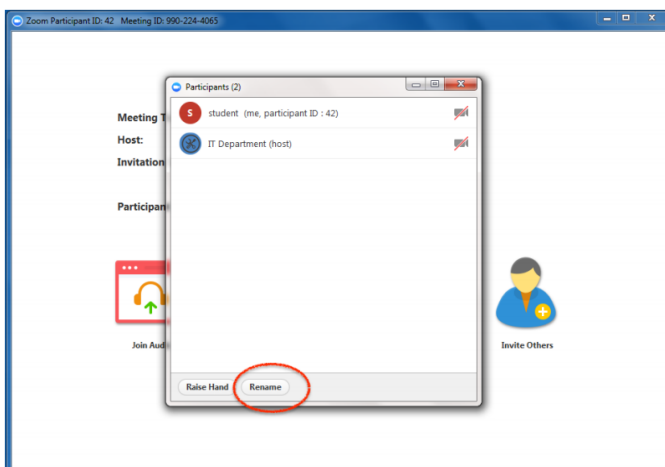
4. Select if you would like to connect audio and/or video and click **Join**.

Change Display Name with Zoom desktop client (Windows or Mac)

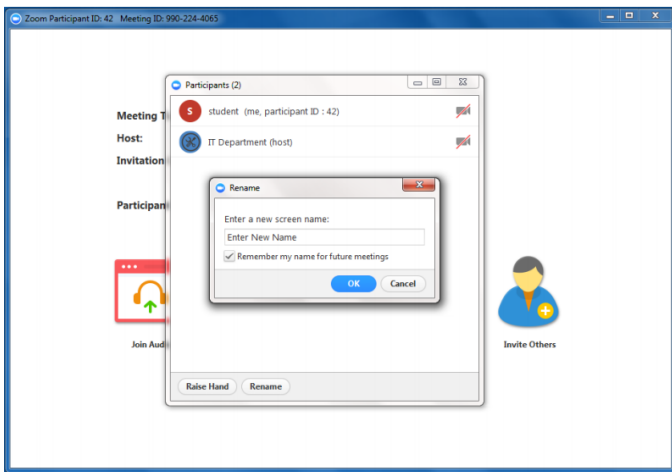
1. From the Zoom Room click on the **Participants** icon at the bottom of the window



2. A Participants window will appear. Click the **Rename** button.



3. Enter your new name in the **New Screen Name** field and be sure to have the **Remember my name for future meetings** checked



4. After clicking the blue **OK** button, your new name will appear.

Instruction for Online Session Chairs

Each session room is hosted by a conference staff to assist you with Zoom meeting room operation.

Display name to apply (example):

Registered Name: Chair Name

Identity: Chair

Example of Display Name in Zoom: Room-Session-X-Chair Name (Chair)

Before the Session Starts

1. Enter the meeting room at least 10 minutes prior to the starting time of the session to introduce yourself to your Co-Chair (if available), presenters, and the hosting staff.
2. Please be reminded that all the time shown in the program is based on Japan Standard Time (JST) UTC/GMT +9 hours. You may use the [Time Zone Converter](#) to convert to your local time.
3. Turn on your video when entering the meeting room. If you experience any difficulties sharing your video, please visit the [Zoom Help Center](#).
4. Please start the session on time.

During the Session

1. Introduce yourself and your Co-Chair to open the session.
2. Check the attending presenters to before the start of session.
3. Briefly introduce the presentations and the presenters.
4. Remind the audience to enter questions at the chat box.

During the Q&A

1. Q&A is suggested to be scheduled after all presentations are completed.
2. Prepare at least one question for each presentation to stimulate the discussion.
3. Briefly introduce the presentations and the presenters.
4. Please end the session on time.

Best paper Presentation award

After the session, please recommend **one best presentation award (each session only one)** to aiue.conference@gmail.com.

Examination criteria:

Comprehensively evaluate the significance of the research content, the degree of contribution to the research by the individual presenter, the ease of understanding the presentation, and the accuracy of the question answering.

Instruction for Online Presenters

Each session room is hosted by a conference staff to assist you with Zoom meeting room operation. Once you are in the meeting room, please change your display name as follow:

Display name to apply (example):

Registration Number: 000

Registered Name: AIUE2022-XXX

Identity: Presenter No.x (the number is your presentation number in this session.)

Example of Display Name in Zoom: AIUE2022-000-XXX (Presenter No.x)

Before the Session Starts

1. Enter the meeting room at least 10 minutes prior to the starting time of the session.
2. Please be reminded that all the time shown in the program is based on Japan Standard Time (JST) UTC/GMT +9 hours. You may use the Time Zone Converter to convert to your local time.
3. Turn on your video to introduce yourself to the session chair and the hosting staff.
4. If you experience any difficulties sharing your video, please visit the [Zoom Help Center](#).
5. Please mute audio and stop video until your Q&A time.

During the Session

1. After the session chair introduces you, please start your presentation.
2. Please be careful to control your speaking time, neither too short nor too long.

During the Q&A

1. Please response only to the questions raised by the session chair.
2. You may use audio only to response to the questions and share screen feature to support your responses.

Participants in AIUE2022

Onsite Participants

No.	Region	Name	Organization
1	Japan	Ojima, Toshio	NPO AIUE
2	Japan	Yoshida, Kimio	NPO AIUE
3	China	Zeng, Shihong	Beijing University of Technology
4	China	Wu, Zhirui	Dalian University of Technology
5	China	Duan, Yuechen	Qingdao University of Technology
6	China	Wang, Shudi	Qingdao University of Technology
7	China	Xun, Piao	Qingdao University of Technology
8	China	Wang, Jing	Shandong Jianzhu University
9	Indonesia	Hidayat, Rusyda Tamma	Sepuluh Nopember Institute of Technology
10	Indonesia	Siregar, Ariannisa Rihana	Sepuluh Nopember Institute of Technology
11	Indonesia	Xian, Gabriela Emilly	Sepuluh Nopember Institute of Technology
12	Japan	Miyazaki, Hiroshi	Kansai University
13	Japan	Yoda, Hirotoshi	Kindai University
14	Japan	Moriyama, Masakazu	Kobe University
15	Japan	Ben, Qiao	Kogakuin University
16	Japan	Hotta, Tomoki	Kogakuin University
17	Japan	Nakajima, Yusuke	Kogakuin University
18	Japan	Okutsu, Mashiro	Kogakuin University
19	Japan	Sekiguchi, Yusuke	Kogakuin University
20	Japan	Tanaka, Ryuhei	Kogakuin University
21	Japan	Yamashita, Yusuke	Kogakuin University
22	Japan	An, Zhanqianqian	Shibaura Institute of Technology
23	Japan	Fujisawa, Aoba	Shibaura Institute of Technology
24	Japan	Funada, Ayaka	Shibaura Institute of Technology
25	Japan	Hirata, Koudai	Shibaura Institute of Technology
26	Japan	Lin, Jiajing	Shibaura Institute of Technology
27	Japan	Masuda, Yukihiro	Shibaura Institute of Technology
28	Japan	Murakami, Kimiya	Shibaura Institute of Technology
29	Japan	Murakami, Seishiro	Shibaura Institute of Technology
30	Japan	Ozawa, Kazuma	Shibaura Institute of Technology
31	Japan	Ren, Ziyang	Shibaura Institute of Technology
32	Japan	Suzuki, Shunji	Shibaura Institute of Technology
33	Japan	Tsuchiya, Naoki	Shibaura Institute of Technology
34	Japan	Xia, Lingtong	Shibaura Institute of Technology

No.	Region	Name	Organization
35	Japan	Yang, Yuzhou	Shibaura Institute of Technology
36	Japan	Bai, Yihang	The University of Kitakyushu
37	Japan	Bao, Xin	The University of Kitakyushu
38	Japan	Dai, Jialu	The University of Kitakyushu
39	Japan	Dewancker, Bart	The University of Kitakyushu
40	Japan	Fukuda, Hiroatsu	The University of Kitakyushu
41	Japan	Gao, Weijun	The University of Kitakyushu
42	Japan	Guo, Zihan	The University of Kitakyushu
43	Japan	Hayato, Uranaka	The University of Kitakyushu
44	Japan	Julian, Treza Chandra	The University of Kitakyushu
45	Japan	Li, You	The University of Kitakyushu
46	Japan	Liu, Siyuan	The University of Kitakyushu
47	Japan	Mitsune, Amami	The University of Kitakyushu
48	Japan	Nguyen, Hong Ngoc	The University of Kitakyushu
49	Japan	Ren, Yufan	The University of Kitakyushu
50	Japan	Wang, Jinming	The University of Kitakyushu
51	Japan	Wang, Qiyuan	The University of Kitakyushu
52	Japan	Wang, Shimeng	The University of Kitakyushu
53	Japan	Wang, Yafei	The University of Kitakyushu
54	Japan	Wu, Ziting	The University of Kitakyushu
55	Japan	Xie, Huayue	The University of Kitakyushu
56	Japan	Xu, Yue	The University of Kitakyushu
57	Japan	Yang, Haolin	The University of Kitakyushu
58	Japan	Yin, Tingting	The University of Kitakyushu
59	Japan	Yu, Haiming	The University of Kitakyushu
60	Japan	Yu, Yi	The University of Kitakyushu
61	Japan	Zeng, Qian	The University of Kitakyushu
62	Japan	Zhao, Qinfeng	The University of Kitakyushu
63	Japan	Zhou, Mengyuan	The University of Kitakyushu
64	Japan	Zhou, Rui	The University of Kitakyushu
65	Japan	Sudo, Satoshi	Tohoku Bunka Gakuen University
66	Japan	Chen, Aqing	Tohoku Institute of Technology
67	Japan	Peng, Shiyi	Tohoku Institute of Technology
68	Japan	Takamori, Shuma	Tohoku Institute of Technology
69	Japan	Watanabe, Hironori	Tohoku Institute of Technology
70	Japan	Mochida, Akashi	Tohoku University

No.	Region	Name	Organization
71	Japan	Furuta, Shoichiro	Waseda University
72	Japan	Ota, Atsuki	Waseda University
73	Japan	Rudi, Setiadji Agustiningtyas	Waseda University
74	Japan	Saito, Ruka	Waseda University
75	Japan	Takaguchi, Hiroto	Waseda University
76	Japan	Ueda, Koki	Waseda University
77	Japan	Ueno, Takahiro	Waseda University
78	Japan	Umezawa, Mina	Waseda University
79	Japan	Yoshii, Moeri	Waseda University
80	Japan	Furuta, Rintaro	Yokohama National University
81	Japan	Inagaki, Keiko	Yokohama National University
82	Japan	Isomoto, Kazuha	Yokohama National University
83	Japan	Ninomiya, Taiga	Yokohama National University
84	Japan	Nishiuchi, Makoto	Yokohama National University
85	Japan	Sadohara, Satoru	Yokohama National University
86	Japan	Sano, Kazuki	Yokohama National University
87	Japan	Yoshida, Satoshi	Yokohama National University
88	Korea	Lee, Jiae	Andong Sciences College
89	Korea	Hwang, Jung-Ha	Kyungpook National University
90	Korea	Jang, Hye-Min	Kyungpook National University
91	Korea	Jo, Ye-Bon	Kyungpook National University
92	Korea	Kim, SungKyung	Kyungpook National University
93	Korea	Kim, Yunho	Kyungpook National University
94	Korea	Lee, Junglim	Kyungpook National University
95	Korea	Park, Choon-Wook	Kyungpook National University
96	Korea	Park, YunHa	Kyungpook National University
97	Korea	Ryu, Wontaek	Kyungpook National University
98	Korea	Seo, Dong-Min	Kyungpook National University
99	Korea	Seo, Hyuncheol	Kyungpook National University
100	Korea	Sung, Seung ho	Kyungpook National University
101	Korea	Won, Anna	Kyungpook National University
102	Korea	Woo, Hyun-Jung	Kyungpook National University
103	Korea	Yun, Woo-Seung	Kyungpook National University
104	Korea	Zhang, Chu	Kyungpook National University
105	Korea	Bae, Young-Hoon	Pukyong National University
106	Korea	Choi, Gaeun	Pukyong National University

No.	Region	Name	Organization
107	Korea	Choi, Jun-Ho	Pukyong National University
108	Korea	Gu, Ji-won	Pukyong National University
109	Korea	Ji, Yebeen	Pukyong National University
110	Korea	Kim, Ji-Hun	Pukyong National University
111	Korea	Kim, Kibeom	Pukyong National University
112	Korea	Kim, Kwon-Hoo	Pukyong National University
113	Korea	Lim, Won-Jin	Pukyong National University
114	Korea	Oh, Ryun-Seok	Pukyong National University
115	Korea	Woo, SunHee	Pukyong National University

Online Participants

No.	Name	Region	Organization
116	China	Bai, Yifei	Beijing University of Technology
117	China	Zhan, Xiaoxiang	Beijing University of Technology
118	China	Fu, Dongxue	Chang'an University
119	China	Ma, Xuan	Chang'an University
120	China	Zhang, Qihui	Chang'an University
121	China	Yu, Canning	Dalian University of Technology
122	China	Zhang, Hongchi	Dalian University of Technology
123	China	Li, Dekui	Liaocheng University
124	China	Jiang, Han	Nanjing Tech University
125	China	Su, Feifei	North China University of Technology
126	China	Ding, Kexin	Qingdao University of Technology
127	China	He, Guanjie	Qingdao University of Technology
128	China	Jiao, Zhuangqing	Qingdao University of Technology
129	China	Luan, Huiling	Qingdao University of Technology
130	China	Wang, Chaoran	Qingdao University of Technology
131	China	Wang, Meng	Qingdao University of Technology
132	China	Wang, Xingyu	Qingdao University of Technology
133	China	Yu, Dan	Sanda University
134	China	Wei, Yandi	Shandong Vocational College of Information Technology
135	China	Song, Lifei	Shanghai University of Electric Power
136	China	Yang, Meiqi	Shenyang Jianzhu University
137	China	Zeng, SuiPing	Tianjin Chengjian University
138	China	Zhang, Longhao	Tianjin Chengjian University
139	China	Bin, Huaijiang	Tongji University

No.	Name	Region	Organization
140	China	Yu, Hang	Tongji University
141	China	Zhang, Yinying	Tongji University
142	China	Chen, Lelin	Tsinghua University
143	China	Guo, Yuxin	Xi'an Jiaotong University
144	China	Hong, Chao	Xi'an Jiaotong University
145	China	Liu, Keju	Xi'an Jiaotong University
146	China	Wang, Mengying	Xi'an Jiaotong University
147	China	Wei, Tong	Xi'an Jiaotong University
148	China	Yang, Liu	Xi'an University of Architecture and Technology
149	China	Zhou, Congyue	Zhejiang University
150	Japan	Koyanagi, Hidemitsu	Hokkai Gakuen University
151	Japan	Chen, Enping	The University of Kitakyushu
152	Japan	Dai, Anbang	The University of Kitakyushu
153	Japan	Fu, Lingxiao	The University of Kitakyushu
154	Japan	Jiang, Jiahao	The University of Kitakyushu
155	Japan	Mo, Wensheng	The University of Kitakyushu
156	Japan	Shi, ChunYan	The University of Kitakyushu
157	Japan	Wang, Jing	The University of Kitakyushu
158	Japan	Wang, Xingguo	The University of Kitakyushu
159	Japan	Wang, Yue	The University of Kitakyushu
160	Japan	Xu, Yang	The University of Kitakyushu
161	Japan	Zhou, Haining	The University of Kitakyushu
162	Korea	Kim, Min-Seok	Kyungpook National University
163	Korea	Lv, Pan	Kyungpook National University
164	Australia	Xu, Yuyao	The University of Melbourne

Please cooperate with measures to prevent the spread of COVID-19

新型コロナウイルス感染拡大予防対策にご協力ください

- If you are not feeling well, such as fever, cold symptoms, shortness of breath (difficulty breathing), or feeling very tired (fatigue), please do not participate. In this case, please inform the staff of the situation.
発熱、風邪の症状、息苦しさ（呼吸困難）、強いだるさ（倦怠感）などの体調不良の方は、参加を取りやめてください。その場合、学会関係者に必要な連絡を行ってください。
- Wear a mask and carry a spare mask.
マスクの着用及び予備マスクを携帯してください。
- Please take action to avoid the three Cs (Closed spaces, Crowded places, Close contact).
三つの密（密閉、密集、密接）を避ける行動をとってください。
- Thoroughly wash and disinfect your hands.
手洗いや手指消毒を徹底してください。
- Since the risk of infection during meals has been pointed out, please keep your distance from others when eating and refrain from talking as much as possible.
食事時の感染リスクが指摘されていることから、食事に際しては、他者との距離を確保し、できるだけ会話を控えて食事をしてください。
- Please wear a mask as much as possible, even at social gatherings.
懇親などの場においても、可能な限りマスクの着用をお願いします。

