

**Oral Presentation List**

| Session ID | Theme | Ref No. | Paper Title  | 1st author name              | 1st author affiliation                                 |
|------------|-------|---------|--|------------------------------|--|
| 1A         | 1     | T000026 | Embedded architectural adaptation: Mimicking ecosystem functions in oceanic residential architecture   | Mikkel Poulsen Rydborg       | Aalborg University                                     |
| 1A         | 1     | T000117 | Development of community-based disaster reduction information system   | Yukihiro MASUDA              | Shibaura Institute of Technology                       |
| 1A         | 1     | T000119 | Successes and Challenges of Gleaning Program in the Urban Neighborhoods ? A Case Study of Gleaning Programs from the United States                   | Tetsuya Yaguchi              | Waseda University                                      |
| 1A         | 1     | T000174 | Using the ReSOLVE framework for circularity in the building and construction industry in emerging markets  | Usha Iyer-Raniga             | RMIT University  |
| 1A         | 1     | T000206 | Vacant house utilization making use of the quarry ground water in Oya area   | hideaki wakabayashi          | Utsunomiya University                                  |
| 1A         | 1     | T000226 | Construction in extreme environments: Definition of extremeness and parameter analysis of case projects  | Takaharu Igarashi            | the University of Tokyo                                |
| 1B         | 1     | T000087 | Facilitating a Transition towards Urban Sustainability: An Analysis of the Innovation System of Smart Cities in the Pearl River Delta in China       | Masaru Yarime                | Hong Kong University of Science and Technology         |
| 1B         | 1     | T000169 | Urban green infrastructure: perspectives on life-cycle thinking for holistic assessments   | Linda Romanovska             | University of New South Wales                          |
| 1B         | 1     | T000218 | How can CASBEE contribute as a sustainability assessment tool to achieve the SDGs?   | genki miyazaki               | Hosei University                                       |
| 1B         | 1     | T000256 | Investigating the potential for integrating social, environmental and economic life cycle assessment for sustainable buildings                       | Nittalin Phunapai            | De Montfort University                                 |
| 1B         | 1     | T000260 | The assessment of carbon footprint in interior decoration and construction   | Meng-Chieh, Jeffrey Lee      | National Taichung University of Science and Technology |
| 1B         | 1     | T000262 | A Case Study of Thermal Environment in Urban Street Canyon in Hot and Humid Climate City based on Vehicle Effect                                     | Qiong Li                     | South China University of Technology                   |
| 1C         | 1     | T000050 | Optimal decarbonization pathways for urban residential building energy services  | Benjamin D. Leibowicz        | The University of Texas at Austin                      |
| 1C         | 1     | T000101 | Campus green buildings: Policy implications for the implementing, monitoring and evaluation of campus green building initiatives                     | Maryam Khoshbakht            | Griffith University                                    |
| 1C         | 1     | T000120 | Agent-based simulation on the effect of policies on long-term energy conservation at an area level   | Yuki Ohto                    | The University of Tokyo                                |
| 1C         | 1     | T000127 | Comparing the profitability of various renovation packages in Swedish residential building sector: a case study                                      | Elaheh Jalilzadehazhari      | Linnaeus University                                    |
| 1C         | 1     | T000167 | Japan's fluorocarbon control policy as a measure of climate change mitigation in building sector   | Shunsuke Kawagishi           | the University of Tokyo                                |
| 1C         | 1     | T000237 | How could public sectors facilitate to procure professional energy management service for buildings?   | Tomonari Yashiro             | The University of Tokyo                                |
| 2A         | 2     | T000037 | Impact of retro-reflective glass facades on the surface temperature of street pavements in business areas of Singapore and Tokyo                     | Miguel Martin                | National University of Singapore                       |
| 2A         | 2     | T000047 | Refrigeration system using resources of the regional environment in the Oya area   | akiji mashiko                | Utsunomiya University                                  |
| 2A         | 2     | T000077 | Virtual Singapore integration with energy simulation and canopy modeling for climate assessment  | Marcel Ignatius              | National University of Singapore                       |
| 2A         | 2     | T000083 | Distribution method of supply equipment based on time series estimation of urban energy demand   | Kentaro Takahashi            | Kyushu University                                      |
| 2A         | 2     | T000123 | Mapping Flexibility of Urban Energy Systems (FIRST) project: Rationale and study design of an exploratory project                                    | Daniel Aelenei               | Universidade Nova de Lisboa                            |
| 2A         | 2     | T000141 | A simulation-based estimation of demand response potential of Japanese commercial building stock   | Hemiao Chen                  | Osaka University                                       |
| 2B         | 2     | T000006 | Urban Retrofitting: A Progressive Framework to Model the Existing Building Stock   | Ahmed Khoja                  | Munich University of Applied Sciences                  |
| 2B         | 2     | T000008 | Spatial quality of renovated open space in Tokyo via the experience of users with urban gardening  | Yen Khang NGUYEN TRAN        | Tokyo Institute of Technology                          |
| 2B         | 2     | T000068 | Smart Community Guideline: Case Study on the Development Process of Smart Communities in Japan.  | Monica I. C. Gondokusuma     | Osaka University                                       |
| 2B         | 2     | T000179 | The influence of environmental factors on housing transaction price in local cities in Japan   | Tomoaki Shinozaki            | Utsunomiya University                                  |
| 2B         | 2     | T000203 | Effects of Different Water Coverage in Block Scale on PM and NO2 Removal : A Case Study of Wuhan, China  | Dun Zhu                      | Huazhong University of Science & Technology            |
| 2B         | 2     | T000205 | Localized Effective Tourism Carrying Capacity using Tourist Proxemics and Corrective Factors, The Case of Sabang Beach in Baler, Aurora, Philippines | Merant De Vera               | De La Salle College Of Saint Benilde                   |
| 2B         | 2     | T000244 | Evaluating Street Quality for Walkability from 3D Models   | Wangda Zhu                   | Cornell University                                     |
| 3A         | 3     | T000030 | A Proposal of a Disaster-Responsive Emergency Housing Unit that can be diverted to Permanent Use   | Satoshi Inaba                | Waseda University                                      |
| 3A         | 3     | T000048 | Study on winter indoor thermal environment of temporary shelters built in Nepal after massive earthquake 2015  | Rita Thapa                   | Tokyo City University                                  |
| 3A         | 3     | T000057 | High Performance and Energy Resilient Communities: Disaster prevention through community engagement  | Alexander Francois de Roode  | KTH Royal Institute of Technology                      |
| 3A         | 3     | T000157 | Success Factors for Community Participation in the Pre-Disaster Phase  | Adnan Enshassi               | Islamic University of Gaza                             |
| 3A         | 3     | T000252 | Responses and resilience of households in Thailand on emergency electricity blackout   | Warathida Chaiyapa           | Chiang Mai University School of Public Policy          |
| 3A         | 3     | T000257 | Limits of decontamination in rural areas radioactively contaminated by TEPCO nuclear power plant accident and new concept for recover planning       | KOJI ITONAGA                 | NIHON UNIVERSITY                                       |
| 4A         | 4     | T000059 | ANN Modeling of Performance Prediction of Sky-Source Heat Pump in Winter   | KE WEN                       | the University of Tokyo                                |
| 4A         | 4     | T000063 | Experimental performance analysis of a multiple source and multiple use heat pump (MMHP) system  | Mingzhe Liu                  | The University of Tokyo                                |
| 4A         | 4     | T000097 | Model predictive control of building energy system including thermal energy storage  | Doyun Lee                    | The University of Tokyo                                |
| 4A         | 4     | T000100 | Energy and energy performance evaluation of Multiple source & Multiple use Heat Pump (MMHP) and Solar Water Heater (SWH) for winter season           | Daisuke Inagaki              | University of Tokyo                                    |
| 4A         | 4     | T000107 | Analytical approach for optimum design method of GSHP system with HST  | Hongkyo Kim                  | Pusan University                                       |
| 4A         | 4     | T000181 | Application of a heat source system using solar energy with hot water storage  | Masatoshi Kuboki             | Nikken Sekkei Ltd.                                     |
| 4B         | 4     | T000012 | Field study on thermal environment in a train station building in Tokyo  | Weirong ZHANG                | Beijing University of Technology                       |
| 4B         | 4     | T000062 | Effect of insulation on indoor thermal comfort in detached houses with floor heating systems   | QIANWEN GUO                  | the University of Tokyo                                |
| 4B         | 4     | T000078 | Study on air-conditioning control system considering individual thermal sensation  | Kitoshi Tanaka               | TAKENAKA CORPORATION                                   |
| 4B         | 4     | T000161 | Application of the thermal comfort index as a control logic of VRF system and analysis of its performance by field measurement                       | Sohyun Park                  | Sungkyunkwan University                                |
| 4B         | 4     | T000163 | Long-term measurement of particulate matter in classroom under various indoor and outdoor conditions   | Sowoo Park                   | Sungkyunkwan university                                |
| 4B         | 4     | T000201 | Development of Smart Building Management System Contributing to Wellness and Energy saving   | YOSHIKANE KOJIMA             | OBAYASHI CORPORATION                                   |
| 4C         | 4     | T000007 | An optimal process for WWR design under luminous and thermal environmental requirements  | Peng XUE                     | Beijing University of Technology                       |
| 4C         | 4     | T000055 | Using computer climate generator versus conventional lapse rate to model skyscrapers   | Nobuhiro Hirasuga            | Mitsubishi Jisho Sekkei Inc.                           |
| 4C         | 4     | T000091 | Possibilities of using light pipes to buildings  | Thanyalak Srisamranrungruang | Meiji University                                       |
| 4C         | 4     | T000098 | Cooling load reduction effect in slim double skin facade (SDSF)  | Kyungmo Kang                 | Yonsei University                                      |
| 4C         | 4     | T000253 | A New Approach for the Project Process: Prefabricated Building Technology Integrated with Photovoltaics Based on the BIM System                      | Stephen Siu Yu LAU           | National University of Singapore                       |
| 4C         | 4     | T000254 | A Design-Driven Approach to Integrate High-Performance Photovoltaics Devices on the Building Facade  | Tian Yi CHEN                 | National University of Singapore                       |
| 4D         | 4     | T000015 | Observational study of the indoor environment and energy use in office buildings in tropical Asia  | Ro Yamauchi                  | Tokyo Metropolitan University                          |
| 4D         | 4     | T000019 | Influence of air leakage from building facade on the energy efficiency of air conditioning system in Tropic Asia                                     | Yukiko Mabuchi               | Tokyo Metropolitan University                          |
| 4D         | 4     | T000080 | Field study of passive techniques and adaptive behavior in the traditional courtyard houses of Kabul   | Ayaz Fazeel Hosham           | Kabul University                                       |
| 4D         | 4     | T000136 | Evaluation of Material Selection on the Initial Embodied Energy Value of Low-Middle Apartment in Indonesia   | Yulita Hanifah               | Bandung Institute of Technology                        |

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|------------|-------|---------|---|---------------------------------|---|
| 4D         | 4     | T000213 | A simulation based framework to optimize the interior design parameters for effective Indoor Environmental Quality (IEQ) experience in affordable residential units: Cases from Mumbai, India     | Ahana Sarkar                    | Indian Institute of Technology Bombay             |
| 4D         | 4     | T000214 | Blessed Fate: The Study on how Heritage Churches resist natural calamities  | Elmer Jr. , Macaspac Soliman    | Technological Institute of the Philippines Manila |
| 4E         | 4     | T000011 | On the energy flexibility in buildings: from components to building cluster   | Rongling Li                     | Technical University of Denmark                   |
| 4E         | 4     | T000114 | Fault evaluation process in HVAC system for decision making of how to respond to system faults  | Akira Motomura                  | The University of Tokyo                           |
| 4E         | 4     | T000125 | Analysis of Heat Accommodation Effect in district heating and cooling systems   | INOSHITA Yuhei                  | Kyushu University                                 |
| 4E         | 4     | T000126 | Investigating building demand flexibility potential in Portugal   | Laura Aelenei                   | LNEG  |
| 4E         | 4     | T000144 | "Embodied and Operational Carbon of Typical Heating, Ventilation and Air Conditioning (HVAC) Systems in Office Buildings in Washington State: A study of buildings registered under LEED v3 2009" | Barbara Ximena Rodriguez Drogue | University of Washington,                         |
| 4E         | 4     | T000168 | Research on inefficiency analysis method of building energy utilizing time series data  | Bumpei Magori                   | The University of Tokyo                           |
| 4F         | 4     | T000013 | Development of a rating scale to measuring the KPIs in the generation and evaluation of holistic renovation scenarios   | Aliakbar Kamari                 | Aarhus University                                 |
| 4F         | 4     | T000032 | Design, decision-making and trade-offs in the Centre for Sustainable Development in Canada  | Amy L. Oliver                   | Universite de Montreal                            |
| 4F         | 4     | T000034 | Critical Adoption Factors of Green Building Simulation Tools in Architectural Design Processes  | Yaw-Shyan Tsay                  | National Cheng Kung University                    |
| 4F         | 4     | T000040 | Identifying factors and mitigation measures of safety practices for sustainable building construction   | MD RASHIDUL ISLAM               | UNIVERSITI TEKNOLOGI MALAYSIA                     |
| 4F         | 4     | T000058 | Architecture and sustainability: the role of environmental rating systems - case study in Brazil  | Monica Santos Salgado           | Federal University of Rio de Janeiro              |
| 4F         | 4     | T000138 | Analysing the design space in an early design phase to reduce global environmental impacts and life cycle costs of dwellings  | Ayu Miyamoto                    | KU Leuven   |
| 4G         | 4     | T000027 | Observational study on the cool breeze effect of a through-wall type air conditioner  | Takaya Kato                     | Tokyo Metropolitan University                     |
| 4G         | 4     | T000028 | A New Through-Wall Air Conditioning System with Improved Performance for High-Rise Office Buildings   | SHIRO TSUKAMI                   | NIKKEN SEKKEI LTD                                 |
| 4G         | 4     | T000029 | CFD study with consideration of the surrounding buildings using a through-wall type air conditioning system   | Hirota Kubo                     | NIKKEN SEKKEI LTD                                 |
| 4G         | 4     | T000060 | Approachable ZEB (Zero Energy Building) (Part.2) - ZEB for Everyone -   | Kohei Shiraishi                 | Takenaka Corporation                              |
| 4G         | 4     | T000085 | Approachable ZEB (Zero Energy Building) (Part.1)  | Hiroaki Takai                   | Takenaka Corporation                              |
| 4G         | 4     | T000112 | A study on the effect of facility renewal in small and mid-sized office buildings oriented to net-zero energy buildings<br>Measuring the effect of setting a cool space in summer-                | Saya Kouroki                    | Kyushu University                                 |
| 4G         | 4     | T000230 | A study toward the realization of net zero energy building in urban areas   | Takuya Tanaka                   | TAISEI Corporation                                |
| 4H         | 4     | T000064 | Study on Adaptive Thermal Comfort in Naturally Ventilated Secondary school Buildings in Nepal   | Mishan Shrestha                 | Tokyo City University                             |
| 4H         | 4     | T000065 | A pivoted window capable of adjusting ventilation rate automatically  | Yue Zhao                        | Tianjin University                                |
| 4H         | 4     | T000162 | Importance of the Airtightness data on Stack effect analysis  | Undram Munkhbat                 | Sungkyunkwan University                           |
| 4H         | 4     | T000175 | Target air change rate map of China for sustainable building design during initial design stage   | Liwei Wen                       | Guangzhou university                              |
| 4H         | 4     | T000198 | Evaluating the impact of Ventilation Strategy and Window Opening Area on Overheating Issues   | Carlos Jimenez-Bescos           | University of Nottingham                          |
| 5A         | 5     | T000088 | Effect of energy information provision on occupant's behavior and energy consumption in public spaces   | Keisuke Ojima                   | The University of Tokyo                           |
| 5A         | 5     | T000108 | Study on energy education method for elementary school students to internalize energy conservation behavior.  | Yoshiyuki Ikeyama               | Kyushu University                                 |
| 5A         | 5     | T000109 | Development of the Single and Combined Fan Use Models in Japanese Dwellings   | Hikaru Imagawa                  | Tokyo City University                             |
| 5A         | 5     | T000216 | A study to examine ways to increase the prevalence of courses in environmental studies using environmentally conscious technologies   | SHUNYA TANAKA                   | Kogakuin University                               |
| 5A         | 5     | T000228 | How can bioclimatic design foster diversification of low-energy building strategies in the next future? ? design for long-term learning process in residential building                           | Lorenzo Barghini                | The University of Tokyo                           |
| 5A         | 5     | T000249 | Refurbishment of UK school buildings; Challenges of improving energy performance using BIM  | Asem Al Bunni                   | Middlesex University                              |
| 5B         | 5     | T000018 | Comparing the occupants' comfort between perimeter zone and interior zone in ASIAN office.  | Kittiwoot Chaloeitoy            | Tokyo Metropolitan University                     |
| 5B         | 5     | T000020 | Thermal Adaptive Behavior of Occupants in Air-conditioned Office Buildings in Thailand  | Tanadej Sikram                  | Tokyo Metropolitan University                     |
| 5B         | 5     | T000045 | The value of green roof as a strategy for urban heat island mitigation in Beijing: a contingent valuation approach  | Li Zhang                        | The University of Kitakyushu                      |
| 5B         | 5     | T000076 | EVALUATION OF LIFESTYLE FACTORS INCLUDING PEOPLE'S VALUES AFFECTING ELECTRICITY CONSUMPTION IN HOMES  | Ayami Otsuka                    | Waseda University                                 |
| 5B         | 5     | T000135 | Analysis of electricity usage habits based on electricity and hot water supply demand detail measurement of 10 houses   | Mai Kihara                      | Kyushu University                                 |
| 5B         | 5     | T000245 | Impact of occupant behavior on energy consumption and corresponding strategies in office buildings  | Zhao Dong                       | Zhejiang University                               |
| 5B         | 5     | T000266 | Detecting Anomalous Energy Consumption from Profiles  | Hiroto Abe                      | Tokyo City University                             |
| 6A         | 6     | T000025 | Investigating the performance guarantee system for building envelope glass and frames in Thailand   | Fumi Nagai                      | Tokyo Metropolitan University                     |
| 6A         | 6     | T000103 | Appropriate indoor environment for southeast asian people; physiological and psychological responses to humidity  | Risa Kawakami                   | SHIMIZU CORPORATION                               |
| 6A         | 6     | T000128 | A field experiment on green walls taking into consideration wind flow in the hot-humid climate of Indonesia   | Haruka Kitagawa                 | Tokyo Institute of Technology                     |
| 6A         | 6     | T000185 | Performance evaluation of a certified green-rated housing development in the warm humid climate of India  | Rajat Gupta                     | Oxford Brookes University                         |
| 6A         | 6     | T000210 | Low-Cost Housing in India: A Review   | SIVAKUMAR PALANIAPPAN           | INDIAN INSTITUTE OF TECHNOLOGY MADRAS             |
| 6B         | 6     | T000017 | Comparative Study on Energy Consumption in the Asian Landlocked Countries   | Kazuhiro Fukuyo                 | Yamaguchi University                              |
| 6B         | 6     | T000072 | Rural Household Energy Use and Thermal Environment in Three Climatic Regions of Nepal   | Tika Ram Pokharel               | Tokyo City University                             |
| 6B         | 6     | T000106 | Full-scale experiment on energy-saving effects of thermal insulation for urban houses in Malaysia   | Tetsu Kubota                    | Hiroshima University                              |
| 6B         | 6     | T000137 | Factors Influencing Embodied Energy Value for Design Phase of Low Middle Class Apartment in   | Noveryna Dwika Reztie           | Bandung Institute of Technology                   |
| 6B         | 6     | T000204 | Applicability of an 'uptake wave' energy transition concept in Indian households  | Andre Paul Neto-Bradley         | University of Cambridge                           |
| 6B         | 6     | T000217 | Development of BELDA, Building Energy use and Lifestyle Database of Asia  | Hiroto TAKAGUCHI                | Waseda University                                 |
| 6C         | 6     | T000051 | A Study of Settlement Planning Strategy of Tableland Village, in Gully Regions of Loess Plateau, China  | Tao Zhang                       | Qingdao University of Technology                  |
| 6C         | 6     | T000118 | Indoor Air Quality and Its Effects on Health among Urban Residents in Jakarta and Surabaya Indonesia  | Hanief Ariefman Sani            | Hiroshima University                              |
| 6C         | 6     | T000139 | Logistic Regression Analysis of the Effect of Third Places on the Risk of Needing Long-Term Care  | Shinya Hisamatsu                | The University of KitakyusyuJapan                 |
| 6C         | 6     | T000148 | Typologies of Rapid Urbanization in Developing Asian Countries  | Michael Boynton Tobey           | National Institute of Environmental Studies       |
| 6C         | 6     | T000225 | Challenges in Adopting Productive Landscaping approaches in Indian Cities   | Hema Rallapalli                 | School of Planning and Architecture, Vijayawada   |