

Day 2: 5/19/2026 (Tu)

Session 1 1-1 Indoor Air Quality

11:00 - 12:30 Location: SGM 123 / Session chair: Vincenzo Gentile

Paper Number	Author	Title
26	Bahadır Erman Yuce, Yunus Emre Cetin and Martin Kriegel	Comparison of Particle Deposition under Air Curtain and Mixing Ventilation in a Negative-Pressure Two-Bed Ward
41	Gerrid Brockmann and Martin Kriegel	A numerical investigation about the influence of combined exhaust positions on ventilation effectiveness
107	Chai Yoon Um, William Delp, Rowan Blacklock, Stefano Schiavon and Brett Singer	Measured influence of supply airflow rate and supply air temperature on air mixing time in a room with overhead mixed system
134	Chaimin Hong, Inseo Jeong, Taeyoung Kim, Hyukkyu Kwon and Sanghoon Park	Performance Evaluation of Window-Type Ventilation Systems: A Comprehensive Methodology and Experimental Validation
427	Saeid Chahardoli, Avijit Sarker, Mina Lesan, Yi Xiao, Andrew Z Johannsen and Arup Bhattacharya	SIMOC-Inspired Mesh Sensing and Combinatorial Bayesian Optimization of Classroom Air-Purifier Placement
558	Vincenzo Gentile and Marco Perino	Low-cost & fast response multi-tracer multi-point gas sensing network for ventilation and interzonal flows measurements

1-2 Energy Efficiency, Conservation, Renewable Energy, and Embodied Carbon

Location: SGM 124 / Session chair: Huijeong Kim

Paper Number	Author	Title
71	Weiyu Shih, Kyosuke Hiyama, Yuya Baba and Ryosuke Kinoshita	Energy Conservation and Performance Verification of Air-Conditioning Systems in a University Building with a Large-Scale Learning Commons
72	Wei Jing, Akihito Ozaki, Yusuke Arima, Younhee Choi and Sungjun Yoo	Evaluation of a Peak Cooling Load Estimation Model for Radiant Systems in Large Indoor Spaces: Validation with BES and Energy Saving Analysis
174	Beom-Jun Kim, Sang-Hwan Park, Ye-Weon Kim, Ye-Eun Jang, Hansol Lim and Ki-Hyung Yu	Post-Retrofit Performance Evaluation of Heat Pump Systems Using Regression-Based Benchmarking
290	Minyoung Choi, Soo-Jin Lee, Min-Geon Park, Suyeon Hong and Jae-Weon Jeong	Performance of Hybrid Ground Source Heat Pump Systems with Open and Closed-Loop under Part-Load Operation
358	Mohammad Hamid, Mohammed Assad, Walid Chakroun and Nesreen Ghaddar	Pulsating Impinging Jet Ventilation with floor cooling to improve thermal comfort at enhanced system performance
537	Deok-Oh Woo, Rocky Alazazi, Karen Ternes, Rajul Patel and Sarah Beatty	High-Intensity UVC Irradiation of Air Handling Units for Enhanced Energy Efficiency Under Varying Biofouling Risks

1-3 Building Technology and Performance

Location: SGM 101 / Session chair: Miroslav Čekon

Paper Number	Author	Title
45	Rossella Cottone, Stefano Fantucci, Giorgia Autretto and Miroslav Čekon	High - Performance Phase Change Material - Integrated Systems for Summer Climate Optimization
303	Yujin Kang, Ji Hun Park, Seong Taek Kang and Sumin Kim	Exploring cross-laminated timber (CLT) applications for sustainable façade design in Korea
311	Young Uk Kim, Dongchan Jin and Sumin Kim	Effect of carbon material dispersion in PCM on thermal properties of cementitious building materials
349	Minyoung Kwon, Jubyoung Lee, Yongsik Jeong, Youngjae Lee, Juseok Kim, Shinjae Lee and Sangeun Han	Plug-and-Play Cartridge Facades: Assessing Energy, Carbon, and Cost in Office Renovations
355	Yonca Yaman, Ayça Tokuç, Mehmet Akif Ezan, Gülden Köktürk, Zeliha Demirel and İrem Deniz	Bioreactive Skins: Evaluating Microalgae Façade Systems for Thermal and Daylighting Performance in Los Angeles
482	Soyeon Ahn, Minseong Kim, Taeyeon Kim, Hyokung Sung and Jae-Weon Jeong	Retrofit of Thermoelectric Moule-Based Thermally Activated Insulation Panel for Apartment Buildings

1-4 Health, Wellbeing, and Human Behaviors in the Built Environment

Location: GFS 116 / Session chair: Evandro Eduardo Broday

Paper Number	Author	Title
20	Wooyoung Jung, Prosper Babon-Ayeng, Kevin Keene, Sophia Witt and Jessica Baweja	Do Common Performance Metrics in Indoor Environmental Quality Research Represent Actual Office Work? A Survey-Based Assessment
25	Mar Hernandez and Roberto Alonso González Lezcano	Methodology for determining Indoor Environmental Quality (IEQ) in residential buildings for the elderly by monitoring key environmental parameters.
98	Koga Nakamura and Tatsuya Hayashi	Impact of Office Environmental Performance on Corporate Value: An Objective Data Analysis in Human Capital Management
106	Mateus Pedrosa Braga, Iasmin Lourenço Niza and Evandro Eduardo Broday	The Influence of Seasonality on Indoor Environmental Quality Parameters in Brazilian University Classrooms
111	Clara Peretti, Alberto Lodovico Ghiberti and Enrico Fabrizio	Analysis and monitoring of environmental conditions and well-being in remote working environments in northern Italy
230	Shunsaku Uozumi, Koga Nakamura and Tatsuya Hayashi	Wellness Offices in Japan: An Empirical Analysis Based on CASBEE-Wellness Office

1-5 Thermal Comfort

Location: GFS 101 / Session chair: Ash Ragheb

Paper Number	Author	Title
68	Vincenzo Costanzo, Gianpiero Evola and Michele Torrisi	Selecting and testing Personal Comfort Systems (PCS) in office spaces in a Mediterranean climate: first insights from in-situ surveys
109	Kyoungmin Lim, Jihyun Yoo, Junseok Park, Chungyoon Chun, Sanghun Kim, Seokwon Seo and Namshin Kim	Determining Optimal Local Thermal Environment for a Vehicle Passenger Using Thermal Comfort Model
128	Wen-Hsuan Hsu and Yun-Shang Chiou	Fishbone vs. Peripheral-Ring Air-Conditioning Layouts: Spatial Thermal Variation and Occupant Comfort in Office Environments
176	Tazia Rahman, Mohamed Ouf, Joyce Kim and Kehinde Bayode	Comparative cooling efficiency of wearable and non-wearable personal comfort systems in office settings
223	Shiyang Li, Yifan Wu and Borong Lin	Thermal comfort benefits using a convective–radiative Personalized Environmental Control System for intermittent heating
491	Rosa Seo, Chul Kim and Kyu-Nam Rhee	Impact of Thermally Activated Internal Louvers on Occupants' Thermal Comfort

1-6 Smart Cities and Green Infrastructure

Location: GFS 118 / Session chair: Ryoza Ooka

Paper Number	Author	Title
51	Chao Lin, Hideki Kikumoto, Yasutomo Takakuwa and Ryoza Ooka	Optimizing Parapets for Rooftop Wind Safety Using CFD Simulations and Sensitivity Analysis
91	Hongyuan Jia, Chao Lin, Karine Sartelet and Hideki Kikumoto	Bayesian inference for sources of reactive gases in urban canyons based on the adjoint method
119	Haruka Nishiyama and Yasuyuki Ishida	Effects of Crown Shape, Leaf Area Index, and Tree-Planting Interval on Multifaceted Benefits of Urban Trees
211	Youmin Xu, Xu Han, Shaoxiang Qin and Liangzhu Leon Wang	High Resolution Urban Microclimate Reconstruction with Generative Diffusion-Based AI
275	Yu-Cian Lin and Ying-Chieh Chan	Pareto Based Performance Framework for Urban Greening: Visualizing Trade offs between Cost, Carbon Sequestration, and Shading
553	Esra Tepeli	Towards Sustainable Building Delivery: Synergizing LEED and Lean Approaches for Energy-Efficient, Healthy Passive House Design

1-7 Generative AI in Sustainable Built Environment

Location: GFS 207 / Session chair: Dongjun Suh

Paper Number	Author	Title
17	Wooyoung Jung, Prosper Babon-Ayeng and Kahyun Jeon	Human-AI Interaction in Large Language Model-Integrated Building Energy Management Systems: User Prompt Strategy
252	Simona Semeraro, Francesca Vecchi, Roberto Stasi and Umberto Berardi	A Two-Phase Physics-informed Machine Learning Framework for Predicting Indoor Temperature and Cooling Energy in Present and Future Climates
279	Mahdi Bonyani, Maryam Soleymani and Chao Wang	Transformer-based Generative AI for HVAC Control with Fragmented Data Center Histories of IT Workload and Cooling Infrastructure
473	Giovanni Calzolari and Wei Liu	Accelerating Large Eddy Simulations of Urban Airflow with Two Generative Adversarial Networks-based Architectures
506	Xinyue Xu, Julian Wang and Xingjian Liu	ResStock-LLM: A Multi-Agent Framework for Climate-Adaptive Residential Retrofit Decisions
519	Muhammad Ihza Febriyan Pagri, Dongho Lee, Junhwa Hwang and Dongjun Suh	A Comparative Analysis of Fine-Tuning and Prompt Engineering for LLM-Based Automation of Building Energy Models for Rooftop Photovoltaics

Session 2
1:30 - 3:00

2-1 Sponsered session by KD Navien: Indoor Air Quality

Location: SGM 123 / Session chair: Arezoo Shirazi

Paper Number	Author	Title
180 *	[Sponsor Team: KD Navien] Insoo Hwang, Junwoo Kim and Hyunbae Park	A Study on Indoor Air Quality Using a Hybrid Dehumidification Ventilation Unit
85	Danbi Kwon, Donghyun Kim and Taeyeon Kim	CFD-based Surrogate Model for Predicting CO2 Concentration Distribution in Classrooms
86	Yubin Cho, Donghyun Kim, Taeyeon Kim and Sihyeon Kim	CFD-ML Approach for Predicting Breathing-Zone PM2.5 in Indoor Cooking Environments.
401	Avijit Sarker, Saeid Chahardoli, Mina Lesan and Arup Bhattacharya	Real-Time Indoor CO2 Distribution Prediction Using CFD and Physics-Regularized Kolmogorov-Arnold Network
442	Yi Xiao, Saeid Chahardoli, Mina Lesan, Avijit Sarker, Andrew Z Johanssen and Arup Bhattacharya	Optimizing Ventilation Inlet and Outlet Configurations using a UQ-Informed Robotic Sensing Platform
456	Tang Lee and Anthony Santini	Preventing the spread of airborne infectious pathogens in the next pandemic

2-2 Energy Efficiency, Conservation, Renewable Energy, and Embodied Carbon

Location: SGM 124 / Session chair: Sharon Verghese

Paper Number	Author	Title
36	Yi Zhu, Junyu Chen, Junjie Fu, Kan Chen and Peng Xu	An Efficient PSO-Based Approach for Optimizing Internal Gain Schedules in Building Energy Simulation
53	Suji Choi and Jaehun Jo	Operational Performance Indicators Based on Temporal Energy Use Patterns for Enhancing EUI
90	Yusuke Nagaoka, Keiichiro Taniguchi and Yasunori Akashi	Preemptive HVAC setpoint scheduling enabled by large language model-based occupancy prediction: a lecture hall case study
241	Sharon Verghese and Mike Jaeger	Enhanced Deterministic Occupant Behavior Modeling Framework for Energy Efficient Conceptual Design
249	Jeongyun Hwang and Hyunwoo Lim	Improving urban building energy modeling (UBEM) accuracy through shape and energy use pattern calibration factors based on representative buildings
576	Sooyoun Cho and Gi Seok Kim	Development of Hierarchical Classification System for University Building Energy Influential Factors and Construction of Prediction Matrix

2-3 Building Technology and Performance

Location: GFS 116 / Session chair: Ying-Chieh Chan

Paper Number	Author	Title
75	Miyu Matsunobu, Kyosuke Hiyama and Yutaka Oura	Quantifying the Trade-off between Upfront and Operational Carbon in High-Performance Building Envelopes
221	Megha Sindhu Pradeep, Behzad Rismanchi and Tuan Ngo	Dynamic and Circular Life Cycle Sustainability Assessment (DC-LCSA) for Modular Buildings: A System Dynamics-based case study
322	Hyeonseong Yuk, Seong Taek Kang and Sumin Kim	Balancing energy efficiency and conservation in historic building retrofits
496	Oi-Man Hip, Simeon N. Ingabo and Ying-Chieh Chan	Evaluating the Impact of Reflective Painting on Building HVAC Performance
532	Kisa Fujiwara	Thermal and Daylighting Performance of Representative Spatial Configurations in Contemporary Japanese Municipal Office Buildings
645	In-Hwan Lee, Beom Yeol Yun, Hyung Woo Lee, Chul-Ki Kim and Sang Joon Lee	Strategies for zero energy building certification of timber house

2-4 Health, Wellbeing, and Human Behaviors in the Built Environment

Location: GFS 118 / Session chair: Hui Zhu

Paper Number	Author	Title
50	Seonghyuk Son and Dongwoo Jason Yeom	Lighting and Spatial Proportions in Virtual Reality: Patterns of Comfort and Task Performance
204	Yanwei Jin, Yunyi Zeng, Juan Yu and Borong Lin	Health impact assessment of light and thermal environments: field research in offices with wearable monitoring
226	Quanna Liao, Duo Yang, Le Ma, Hui Zhu, Hua Su, Masanari Ukai and Songtao Hu	Cognitive performance evaluation based on physiological indicators in different sleep restrictions
270	Wan-Tai Au-Yeung, Josephine Lau, Joel Steele, Nora Mattek, Zachary Beattie, Lyndsey Anderson, Allison Lindauer, Miranda Lim and Jeffrey Kaye	Associations between night-time bedroom environmental factors and objective sleep metrics of older adults
380	Zhining Zhu, Jieun Choi, Xinbo Xu, Jiwon Park, Tobias Kramer, Hui Zhang and Stefano Schiavon	Environmental and Physiological Influences on Sleep Quality: A Randomized Controlled Trial using Heating Pads in the Bay Area
571	Eun Ji Choi and Joon-Ho Choi	Robust Occupant Activity Recognition in Buildings using AI-Based Data Generation

2-5 Thermal Comfort

Location: GFS 101 / Session chair: Yongxin Xie

Paper Number	Author	Title
42	Maha Basha and Jim Uttley	Adaptive thermal comfort and healthy home metrics among minority households in the United Kingdom.
202	Raimo Simson, Martin Kiil, Karl-Villem Võsa, Endrik Arumägi, Alo Mikola and Jarek Kurnitski	Balancing Cooling and Comfort: Lessons from Fan Coil Units in Estonia
346	Ryuichiro Yoshie	Field Measurements in a Renovated Apartment with Underfloor Air Distribution Using a Single Mini-Split Heat Pump
448	Ashraf Ragheb	Indoor Thermal Comfort Evaluation of an Office Space in the Southeastern United States.
567	Ying Jiang, Yongxin Xie and Jianlei Niu	Developing a physiological-parameter-based thermal sensation model for warm-biased outdoor settings: the dynamic part
579	Andrea Martinez Arias, Marco Morales, Valentina Gonzalez Bernal, Daniel Canto and Isaias Navarrete	Prototypes and on-field testing of eco-insulated modules for retrofitting building facades in public schools in Chile.

2-6 Visual (Lighting and Daylighting) Quality and Accoustic Quality

Location: GFS 207 / Session chair: Yun-Shang Chiou

Paper Number	Author	Title
35	Kuniaki Mihara, Daniel Jun Chung Hii, Hiroyuki Takasuna and Katsuhiko Sakata	From Simulation to Space: Impacts of Green Coverage Ratio and Spaciousness on Occupant Well-being in a Semi-outdoor Atrium
153	Haerin Yang, Minwoo Kim and Jeehwan Lee	Comparative EEG Neural Pattern Analysis of Occupant Responses to Window Configurations in Educational Environments
198	Yun-Shang Chiou and Wan-Hsin Cheng	Between ClimateStudio simulations and reality – a study of glare in complex lighting workplace environments
217	Chung-Luen Cheng and Ying-Chieh Chan	Interactive Lighting Design and Simulation Interface Based on BIM and Game Engines for Smart Indoor Environments
396	Zahra Najafi and Mehdi Ashayeri	A Framework for Designing Kinetic Fabric Shading Systems Optimizing Integrated Energy, Daylight, and View Clarity Metrics

2-7 Panel Discussion

Location: SGM 101 / Session chair: Mannider Thind

Paper Number	Author	Title
601	Maninder Thind, Rebecca Martinez, Anushka Raut, Yu Hou	Advancing Healthym Equitable Buildings: Integrating Research, Standards, and Decarbonization Practice

Session 3

3-1 Indoor Air Quality

3:30 - 5:00

Location: SGM 123 / Session chair: Lu Li

Paper Number	Author	Title
15	Hanin Othman and Rahman Azari	Enhancing the Granularity of Spatial Sensing using a Low-Cost IoT-based Sensing Network
220	Fahad Iqbal and Shayan Mirzabeigi	Comprehensive IoT-based Monitoring of Air Quality and Thermal Comfort: An Indoor-Outdoor University Campus Case Study
261	Lu Li and Katie E Angarano	Long-Term Indoor Air Quality Exposure Assessment in Academic Buildings
317	Jehyun Kim and Minki Sung	Estimation of the Number of Occupants Using Carbon Dioxide Concentration and Differential Pressure Data Based Machine Learning Model
324	Arezoo Shirazi, Artur Grigorev, Payam Keshavarz Mirzamohammadi, Dikaia Xenaki, Brian Oliver and Adriana-Simona Mihaita	Indoor and Outdoor Air Quality Monitoring in a Sydney Medical Research Center Using IoT and Toxicological Assessment
549	Aaron Collins, Joseph Stam and Rob Caldow	Evaluating and Mitigating Residential Fine and Ultrafine Particle Exposure via an Open-Source Condensation Particle Counter and Low-Cost Sensor Suite

3-2 Energy Efficiency, Conservation, Renewable Energy, and Embodied Carbon

Location: SGM 124 / Session chair: Qihua Duan

Paper Number	Author	Title
197	Mohamed Oualid Mghazli, Zineb Zoubir, Mohamed Elmankibi and Nouzha Lamdouar	Modeling Peer-to-Peer Energy Markets: Economic Viability and Social Benefits in Contrasting Grid Contexts
334	Heon-Min Lee, Youngsub An, Jongkyu Kim, Jae-Won Jeong and Min-Hwi Kim	Experimental and Theoretical Performance Analysis of a Building-Integrated Photovoltaic and Thermal (BIPVT) System
338	Ye-Bin Shin, Jae-Won Jeong and Min-Hwi Kim	Experimental Analysis of a Building-Integrated Photovoltaic and thermal (BIPVT) Module with Detachable Phase Change Material (PCM) for Curtain Wall Applications
475	Shun Okihara, Shun Okihara, Hideki Sato and Katsunori Nagano	A study on optimal energy management with forecasting PV power generation and energy consumption for ZEB provided by GWHP and energy storage.

563	Yong You and Qiuhua Duan	Multi-objective performance assessment of rear-ventilated BIPV double facade using CFD
560	Mohammed Nazarpour and Huijeong Kim	Challenges and Drivers of Battery Second-Use Community Energy Storage Development: Integrating Social, Techno-Economic, and Behavioral Perspectives

3-3 Building Technology and Performance

Location: SGM 101 / Session chair: Shayan Mirzabeigi

Paper Number	Author	Title
129	Sameeraa Soltanian-Zadeh, Shayan Mirzabeigi, Bess Krietemeyer and Jianshun Zhang	Integrated Evaluation of Energy Performance, Indoor Environmental Quality and Building Envelope Performance in Retrofitted Multifamily Residential Buildings
178	Yuchong Qian and Jiawei Leng	How Digital Twin Platforms Empower the Decarbonization of Built Environments: A Case Study of a Vernacular Dwelling
305	Yun-Jin Hong, Jabin Goo, Dong Hee Choi and Dong Hwa Kang	Prediction of Dehumidification Performance of a Window-Type Liquid Desiccant Ventilation System
390	Jiwon Park, Sangjoon Lee, Jiayu Li, Stefano Schiavon, Kian Wee Chen and Ippei Izuhara	A simulation study on condensation risk in radiant cooling panels with elevated air movement
462	Daisuke Ogura, Sora Nakaike, Makiko Nakajima and Masaru Abuku	Investigation of Hygrothermal Control and Architectural Measures to Reduce Mold Risk in RC Detached Houses in Hot and Humid Regions
540	Enkh-Uchral Erdenebaatar, Taro Mori, Amarbayar Adiyabat and Hisato Osawa	Field Evaluation of Winter Indoor Environmental Performance of a Passive House–Level Detached House in Mongolia

3-4 Health, Wellbeing, and Human Behaviors in the Built Environment

Location: GFS 116 / Session chair: Cristina Piselli

Paper Number	Author	Title
49	Seonghyuk Son, Jae Yong Suk, Kristina Knowles and Dongwoo Jason Yeom	Light-Music Interaction: Modulating the Perception of Emotional Music Through Ambient Lighting
61	Enlian Zhang, Jin-Bin Im, Lijing Xu, Seo-Young Park and Ju-Hyung Kim	The Influence of Window Characteristics on Occupant Well-Being and Perception in Indoor Environments: A Review
193	Shuja Rehman, Prabhjot Singh Chani, Rajasekar Elangovan and Omar Afroz	Thermal-Only Physiological Sensing of Stress and Boredom Detection for Occupant-Centric Control
466	Yijin Zhao, Tsz Him Ian Chiu, Nan Wang, Jeffrey Munding and Julian Wang	A pilot study of the interaction between heat stress and metameric white light on occupants' cognitive performance
489	Shintaro Ando, Misaki Miyazaki, Wataru Umishio and Toshiharu Ikaga	Long-Term Risk of Chronic Disease from Cold Indoor Environments: A 10-Year Cohort Study
534	Neda Ghaeili Ardabili and Julian Wang	Spectral Drivers of Circadian Daylight Performance in Architectural Glazing as a Function of Gaze Direction

3-5 Thermal Comfort

Location: GFS 101 / Session chair: Yichen Yu

Paper Number	Author	Title
48	Senta Mill, Matija Cabadaj, Nicolas März, Nicholas Müller and Normen Langner	How Accurate Is Low-Cost Comfort Monitoring? Validating the ComfortCube
112	Maciej Danielak and Patrick Warzecha	Natural Convection Cooling for Indoor Thermal Regulation in Buildings
272	Yukimasa Hirano, Masahiro Katoh, Saori Yumino and Tsubasa Okaze	Validation of Turbulence Models used in CFD Analysis of Indoor Natural Convection with a Cold Window and a Thermal Manikin
276	Cheng Zhao, Yichen Yu and Jianlei Niu	Development of a dynamic heat and moisture transfer model for sweat-soaked clothing in thermal comfort assessment
320	Jihee Nam, Yujin Kang and Sumin Kim	Influence of the thermal behavior of building envelopes on urban microclimate
510	Meftah Uddin and Sanjeev Khanna	3D Visualization and Spatiotemporal Analysis of Indoor Comfort Parameters

3-6 Climate Change Adaptation, Resilience, and Environmental Policy

Location: GFS 207 / Session chair: Mohamed Dardir

Paper Number	Author	Title
136	Yasir Ahmed	Toward a Just Energy Transition in the GCC: Integrating Policy, Sustainability, and Climate Leadership
175	Zahra Khashei and Sandeep Langar	Integrating Circular Strategies into Post-Disaster Rebuilding: Pathways to Resilient and Resource-Efficient Recovery
237	Min Zong	From the source ensuring IAQVEC meet people's new expectations for a better life
344	Ryuta Tsurumi and Takahiro Yoshida	Spatiotemporal analysis of major CO2 emission sources in the Japanese building sector
546	Caribay Godoy-Rangel, Emanuele Giorgi and Viviana Barquero	Evaluating the Thermal Resilience of PCM-Retrofitted Housing under Heat Waves and Climate Change in Mexico

3-7 Generative AI in Sustainable Built Environment

Location: GFS 118 / Session chair: Soo Jeong Jo

Paper Number	Author	Title
82	Jung Min Han	Quantum Computing for Wind Pressure Data Prediction
181	Po-Yen Lai, Xinyu Yang, Jian Cheng Wong, Derrick Low and Huizhe Liu	Agentic AI-Enabled Framework for Thermal Comfort and Building Energy Assessment in Tropical Urban Neighborhoods
565	Saba Imani and Yun Kyu Yi	GenAI for Human–Building Interaction: Consistency, Reproducibility, and Automation in Post-Occupancy Evaluation
572	Le Sun, Xinyue Xu and Julian Wang	Bridging Construction and AI: Computer Vision-Based Floor Plan Analysis for Real-Time Cost Estimation
573	Ana Graça and Xiang Zhang	Early-stage shading design evaluation for buildings: A workflow accessing energy performance on AI-generated 3D geometry
574	Soo Jeong Jo	Application of AI and Building Performance Simulations to the Early Stages of Building Design

3-8 Online Session

Location: GFS 107

Paper Number	Author	Title
67	Mahdieh Adib, Fariborz Haghighat and Fuzhan Nasiri	Continuous-Time Neural Surrogate Models for Simulation and Scheduling of Compressed Air Energy Storage Systems
471	Zeinab Deldoost Fattahi, Fariborz Haghighat and Fuzhan Nasiri	A Superposition-Based Method for Rapid Estimation of Indoor Airflow Fields Under Occupant Movement
500	Maria Isabel Rivera, Tamara Ugarte-Aviles, Patricia A. Huerta and Marcela Palma-Troncoso	The Effect of Air Purifier Use in Classrooms on the Pulmonary Function of School-Aged Children: A Pragmatic Controlled Trial in Primary Schools in Central-Southern Chile
535	Kátia Fugazza, Marcos Marques and Sylvia Meimaridou Rola	Architectural Retrofit and Multidisciplinary HVAC Modernization with BIM Methodology in Existing Hospitals: A Case Study of the Carlos Tortelly Municipal Hospital
60	Mo Zhou and Xiangfeng Li	Classroom Environments and Problem Behaviors in Children with Autism: Exploring Spatial Impacts and Underlying Mechanisms