



PROGRAM SCHEDULE | DAY 2 - MONDAY, AUGUST 25 - ALL ROOMS

Registration (arrival tea and coffee)																																																						
Live Stream Room																																																						
Plenary Plaza Terrace Room																																																						
Opening Ceremony - Acknowledgment of Country																																																						
0840-0850																																																						
0850-0900	Welcome & IBPSA address IBPSAA President - Quentin Jackson																																																					
0900-0940	Keynote address: Science isn't finished until it's communicated Dr Jen Martin																																																					
0940-0950	Sponsor Address: Better Building Darren O'Dea																																																					
0950-1030	Keynote address: Occupant-centric approaches to improve energy performance Zoltan Nagy																																																					
Morning Tea 1030-1100																																																						
Poster sessions - in foyer																																																						
Theme	BIM to BEM			Climate Change Mitigation & Adaptation CCMA			Climate Change Mitigation & Adaptation CCMA			Indoor Environment Quality IEQ			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Urban Planning & Smart Cities UPSC			Innovative Design Exploration & Industry Transformation IDET																													
Session Chair: Pieter de Wilde																																																						
1100-1115	IFC-based semi-automated building energy model creation and simplification for Building Energy Simulations			Sayegh, Hasan			Future Overheating Risks in Buildings complying with current Codes			Petersen, Steffen			Viability of free-running buildings in the Nordic region			de Wilde, Pieter			A workflow for designing VR experiments for daylight and view-out studies using real- time stereoscopic videos			Cho, Yumi			Beyond correlation: A causality-driven model for indoor temperature control			Mun, Jeeye			Stochastic simulation of uncertain input parameter in urban building energy modelling			Geske, Mara			Quantifying the compound impact of urban heat island and climate change on cooling energy consumption in Nanjing's traditional urban center			Linshi, Zhao			Development and comparison of urban morphological solar energy and building energy consumption models using ANN and linear regression			Poon, Kin Ho			Implementing Dynamo in IFCModelica framework for enhanced parameterization			Alzade, Abdella		
1115-1130	IFC-based setup of interior spaces for thermal comfort simulations using CFD			Richter, Veronika Elisabeth			Urban heat resilience evaluation and climate-responsive urban design for climate change adaptation			Deng, Lirui			The influence of vegetation structure on urban microclimate: A CFD analysis of urban block and vegetation densities			Rothe, Chimony Shashikant			Exploring the consistency of UGR calculations, measurements, and evaluations			Mahdavi, Ardehsir			Identification of simplified control strategies for height and density height and density for low-energy design in Tropical climate			Benali, Fatima Zohra			Urban form and energy demand: Impact of height and density height and density for low-energy design in Tropical climate			Deb, Chirag			Empowering urban building energy modelling with city information models: A critical review on the benefits and corresponding optimization			Zhang, Xiang			The impact of irregular days on machine learning predictions of office building load and corresponding optimization			Wang, Jingrong			Innovative Miscanthus-based materials			El Khoueiry, Dolly		
1130-1145	Building performance analysis at the design stage: A study into the challenges of BIM and BEM integration in the Swedish AEC industry			de Wilde, Pieter			Assessing the impact of future climate on building energy performance with downscaled weather data in Korea			Lim, Eunkyung			Evaluating green roof performance in Korea: heating and cooling load impacts under future climate scenarios			Lee, Semin			Exploring on evaluation of human response to indoor daylighting environment using UES virtual reality modelling: a pilot study			Liang, Runqi			A decision-making method based on economic and environmental life cycle analysis for sustainable controlled			Wang, Liping			Urban building energy simulation for performance analysis of an energy community model in the Italian context			Zhu, Yunsi			Developing building shape indexes at the city-scale for understanding building energy consumption			Hwang, Jeongyun			Quantum approximate optimisation algorithm (QAOA) for surplus energy distribution in urban microgrids			Han, Jung Min			Optimization of HVAC planning of large high- ceiling room for spacecasts and satellites using CFD and optimization algorithm			Yumino, Saori		
1145-1200	Information Requirements for Natural Ventilation in an IFC-based BIM-BEP workflow			Garlet, Liège			Energy-efficient building spatial layout strategies under future climate change scenarios			Shen, Pengyuan			Examining the effect of heat mitigating strategies on outdoor air temperatures in an educational facility under the hot humid			Mohamed, Maryam Mohamed Jaffer			Data-driven assessment of daylight metrics for building visual environmental quality			Ouyang, Fion Yang			Machine learning-driven optimal control method for subway station VAC systems			Wang, Li			Constructing three-dimensional urban models for Urban Building Energy Modeling using UAV oblique imagery			Su, Fengmin			Shaving monthly peak load by overestimating future load in microgrid model predictive control			Li, Lunlong			Thermal performance predictor for campus exterior spaces: a smart campus mobile application development			Zeng, Tiancheng			A data-driven approach for simulating the energy performance of closed-loop hydronic heating systems			Tseno, Enea		
1200-1215	Using Large Multimodal Models (LLM) to digitalize scanned HVAC Schematics into Metadata Schemas for Buildings			Hvid, Christian Anker			Bio-retrofit: Potential of mycelium-based composites to future-proof India and Australia's residential buildings against			Debnath, Kumar Biswaji			Geometric model, thermal environment of bus shelters and cooling behaviors of pedestrians in hot-humid areas—a case			Mao, Huijun			Validation of multispectral simulation tools for predicting non-visual lighting metrics across diverse daylight scenarios			Amin, Gontar			A novel occupant-centric control framework for building to urban scale hybrid energy simulation			Anand, Prashant			Sensitivity analysis of albedo input settings for vertical facades in community-scale solar irradiance simulation			Yoon, Daejin			A knowledge graph-based performance evaluation framework for sustainable residential block design			Wu, Zhaoqi			Development of convolutional neural network-based turbulence modelling framework for outdoor wind field simulation			Zhao, Rui			Evaluating the Practical Energy Saving Potential of a Personal Cooling System in the Tropics			Zhan, Sicheng		
1215-1230	Building Information Model (BIM) and Life Cycle Analysis tools: A comparative study with specialized software for environmental performance of buildings			Gutierrez, Dena, Andrés Jonathan			Divergent: Passive buildings provide thermal resilience in a dystopian warming climate.			Thounaojam, Amanda			The impact of Chinese wellness habits on cooling-related behaviors of urban residents			Li, Jiahui			Comparative Analysis of Glare Indices in Indoor Environments Affected by Reflected Sunlight			Lee, Jisoo			Generation of synthetic load profiles for different typologies of residential users through metadata-driven generative AI models			Piscitelli, Marco Savino			Urban spatial microclimate prediction with morphological map-based ensemble deep learning method			Hu, Maomao			Characterization of the building stock in the mountain environment: correlations between natural context, building geometry and energy performance			Borelli, Gregorio			Fast prediction of urban wind distribution with deep learning-based surrogate models			Wang, Houzhi			Simple Tool to Evaluate the Performance of Model Predictive Control of Space Heating in the Early Stages of Building Design			Petersen, Steffen		
Lunch 1230-1330																																																						
Theme	Climate Change Mitigation & Adaptation CCMA			Climate Change Mitigation & Adaptation CCMA			Climate Change Mitigation & Adaptation CCMA			Indoor Environment Quality IEQ			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Urban Planning & Smart Cities UPSC			Innovative Design Exploration & Industry Transformation IDET																										
Session Chair: TBC																																																						
1330-1345	Urban microclimate simulation as a tool for social cohesion and improvement in deprived areas: a case study			Diz-Mellado, Eduardo			Embodied carbon emissions of the residential building stock in the united states and the effectiveness of mitigation strategies			Hu, Ming			Optimization of ventilation corridor design parameters based on ventilation performance across different urban forms			Shen, Xiaohan			Comparative analysis of daylight, view, and visual privacy: a New York City case study			Kim, Jaeha			Using timber-based panels to retrofit old university buildings in Korea for carbon emission reduction: A comparative study using LCA and energy performance			Park, Junsung			Single family residence energy efficiency impacts on emissions reduction and energy saving life cycle analysis			Li, Qibo			Practically feasible and novel approach for predicting electrical power demand of multiple dwellings using a digital tool in building services industry			Mustafa, Murat			Shaping digital twins: exploring saw and web- Hu, Dingkun			Energy performance assessment of climate adaptive building envelopes using shading masks			Hong, Wontaek					
1345-1400	Modeling resilient multi-energy systems for rural, remote, and disadvantaged communities: A review			Zuo, Wangda			Towards a low-carbon countryside: Lifecycle embedded carbon emission analysis and reduction recommendations for farmhouses			Yi, Yihang			Evaluating the effectiveness of building retrofit strategies for reducing indoor overheating risks in elderly apartments			Gallardo, Andrés			Including households' comfort elasticities in model predictive controllers			Willems, Sara			Operational carbon impact of integrating alternative cooling systems and renewables in arid homes			Mezaen, Ahmed			Estimating life-cycle carbon mitigation potential of building integrated photovoltaics (BIPV) facade at the city scale			Zhang, Shihong			A Q-Lattice and EnergyPlus coupled modelling approach to estimate HVAC energy consumption and natural ventilation			Pandey, Pratik Raj			Predicting urban air temperature using UAV infrared thermography and an artificial neural network			Huyn, Youha			Building design approach in stack effect calculation for complex cases. Multi- Instrumental solution			Sultano, Emil		
1400-1415	Helium-based modelling approach for studying thermal-induced airflow in street canyon			Qi, Dahai			Predicting Energy Demand discrepancies in building simulation under climate change for thermally sensitive mental health care			Hamza, Neveen			Implications of window opening assumptions in English overheating regulation on assessing residential heat			Cui, Cheng			BuildSysPro-IAQ: Impact of Energy systems in French residential buildings on IAQ and Energy Consumption			Wall-Robot, Benedicte			Clarifying carbon reduction claims and pathways to their achievement using real- world building data			Goldworthy, Mark			Techno-economic and environmental feasibility study of non-cloud based Smart Cool Fan Switching System (SFSS) for			Bani, Sanaz			Adaptation of the heating curve for heating systems			Li, Hui Thoi			Archetype generation for the district-scale Life Cycle Assessment of buildings			Schlitt, Maximilian			Thermo-Simetal responsive building skins: geometric patterning and user override on			Sinha, Ankita		
1415-1430	Comparative analysis of cost-benefit quantification methods for equitable resource allocation in building stock			Tseng, Hung Ming			How much will future climate change affect building retrofits for energy equity?			De Silva, Hashan			Nationwide longitudinal study on summertime overheating risk in English care homes			Gupta, Rajat			Assessing inter-sensor variability and calibration of low-cost IAQ sensors through co-location with reference devices			Mathur, Vanitha			Renewable energy communities in Sweden: a techno-economic analysis of single-owner, multiple-consumer building-level energy			Al-Taie, Ziad			How optimal building decarbonization pathways differ when considering energy burden and job creation			Dubois, Ryan			Review of a dynamic simulation approach for collaborative, multidisciplinary building- level and urban-scale analysis			Maton, Luca			Urbanflow: An AI-driven platform for collaborative, multidisciplinary building- level and urban-scale analysis			Ang, Yu Qian			Surrogate modeling of heat transfer in 3D interior facades with active learning			Bittencourt, Gustavo		
1430-1445	Dynamic factors in life cycle assessment: systematic review and categorization			Zong, Chujun			Urban climate control strategies and buildings' retrofitting: a simulation study in the UNESCO heritage site of Valparaiso, Chile			Palme, Massimo			Evaluating occupant behavior model performance considering long-term time use change			Yin, Runeng			Depressurization risk assessment in multi-unit residential buildings using pressurized corridor ventilation systems			Fylok, Natalie			Design guidance for net zero energy mixed- use buildings in Seoul			Chen, Jingyi			Steering Building Design in India towards net zero with a Whole-Building Carbon Protocol			Jayaram, Sreejith			Development of a simulation tool to assess heat pump integration in Canadian homes			Lachance, Alex			Enhancing microclimate modeling in tropical climates: validation of Envi-Met with experimental data from Reunion Island			Levevre, Alexandre			A stable geometry transformation model from 3D geometry data to building energy model			Xiao, Jun		
1445-1500	Carbon emissions during the design and construction phase of public works: a case study of council housing in Taiwan			Lin, Han-Fei			Long-term analysis of felt-based living green walls: microclimate monitoring and simulation calibration			Gocer, Oguz			Integrating CitySim with building performance simulation: A case study of summer indoor overheating in Antwerp			Morales, Richard Dean			Experimental and simulated study on thermal environment of large-scale indoor spaces using radiant panel heating-cooling system			Jing, Wei			RapidRate's role in helping Australia move towards zero carbon homes			James, Melissa			Optimizing a latent heat energy storage tank for a solar collector system: moving towards zero carbon.			Nasir, Alaa			Optimization of cold climate air-air heat pump using simulation data			Lachance, Alex			Innovative approach to enhancing the reliability of urban microclimate simulations			Ordenes Magier, Martin Gabriel			A cross-scale normative encoding representation method for 3D building models suitable for graph neural networks			Li, Yihui		
Afternoon tea 1500-1530																																																						
Theme	Innovative Design Exploration & Industry Transformation IDET			Climate Change Mitigation & Adaptation CCMA			Climate Change Mitigation & Adaptation CCMA			Indoor Environment Quality IEQ			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Energy Efficiency and Sustainability EES			Urban Planning & Smart Cities UPSC			Innovative Design Exploration & Industry Transformation IDET																										
Session Chair: Quentin Jackson																																																						
1530-1545	Evaluating optical distortion in high performance glazing			Jones, Nathaniel L			Heat Where It Hurts - Spatio-temporal weighting for efficient heat impact assessment in Vienna			Khalil Nasr, Behrooz			How to combine direct and indirect adiabatic cooling into an air handling unit for resilient tertiary buildings			Breteau, Antoine			Analysis of the influence of UGR and Ra of common lighting sources on visual experience and energy efficiency			Al-Mowallad, Ezzaddin Ali Mohammed			Activation strategies for decentralized booster heat pumps based on dynamic pricing models			Jacobs, Stef Gino R			The Cornwall: Improving wellbeing for rural older population in cold climates using locally available agriculture waste.			Yang, Di			Alternative pathway for a nearly zero emission building stock in 2050			Seigne, Héloïse			Integrating UHET mitigating measures in the urban planning process			Rawal, Rajan			Building Performance Simulation of a transparent Trombe wall Coupled with a Latent Thermal Energy Storage			Cekon, Miroslav		
1545-1600	Behaviour and light: A human-centric study on how choice and shared spaces influence light exposure and wellbeing			Ganjehzadeh, Nazarin			Integrating spatial proximity analysis and explainable machine learning to evaluate building energy retrofit potential under urban heat island effects			Lei, Zhen			A novel BIM-to-UH workflow for integrating Lucia analysis as a key driver in BIM retrofit projects			Campos-Rosa, Lucia			Evaluating front yard greenery for enhanced indoor environmental quality and energy efficiency			Shiobori, Vail			Simultaneous heating and cooling in museums: evaluation of micro-encapsulated phase change slurry as a thermal storage medium for multi-purpose thermal storage			Schito, Eva			Socio-techno-economic optimization of energy systems with seasonal thermal storage: a study on a Swiss single-family house			Fiorentini, Massimo			SEB retrofit planning methodology for existing office buildings using building energy simulation			Miyata, Masato			Integrated optimization of urban open space Fu, Hansun			Occupant-Centric Design due to Uncertainties in Occupants and Building Operation			Ono, Eikichi					
1600-1615	Multi-objective optimization design of windows combining granular aerogel glazing and double glazing systems			Zheng, Dongmei			High-resolution downscaling simulation of urban wind-thermal environments: An interpretable machine learning analysis of urban morphology			Jie, Pengyu			Scaling impact of urban green infrastructure on urban climate and energy: A critical review			Chen, Wenqi			Performance comparison of lighting design objectives parameters based on calculation and simulation: case study of a pool hall and café			Hermawan, Ikhsan Muttaqien			Modeling and integration of photovoltaic thermal hybrid solar collectors in a fifth- generation district heating and cooling network			Li, Guowen			From Poverty to Power: Investigating essential energy services in low-income households in developing nations			Jana, Arnab			Energy consumption pattern analysis of housing in warm-humid climate			Ranawainshaw, Deepali			Reducing the gap between predicted and measured urban microclimate through handling parameter uncertainty and model form uncertainty			Setyantho, Gighi Rahmandhani			Simplifying decision-making in model-based co-design of building energy systems through automatically generated optimal controls			Louis, Hermans		
1615-1630	Building for the Future - Considering future weather extremes in assessing building energy efficiency			Dr Ramona Dalia Postea			Machine Learning-based thermal environment classification and prediction for historical neighborhoods			Li, Jingru			Analytical dehumidification performance evaluation of a novel window-type liquid desiccant ventilation system based on CFD			Gao, Jabin			Investigating the built-environment and behavioural prerequisites for occupant satisfaction within the low-income			Sarkar, Ahana			Verification of the accuracy of the Degree Day method using building simulation			Sako, Haruki			Rebuilding in conflict-affected built environments: a simulation-based framework			Render, Elaine Rose			Developing practical approaches and tools for optimizing bldg designs			Ota, Nozomu			The influence of ancient city wall on cooling effect of water: A case study of Nanjing Ming City Wall			Song, Dan			Prediction of internal pressure and door operation risk in high-rise buildings under time-varying external conditions			Ito, Shogo		
1630-1645							Using EPSP scripts to enable automated building electrification modeling with flexibility and scalability			Sheng, Maggie			Revealing integrity effects of the built and operating environment of substation infrastructure from a multi-scale perspective			Wan, Qi			Lighting quality evaluation in underground public spaces — An integrated field and simulation study			Sui, Genai			A comparative study of residential building energy performance in Belgium utilizing three different solar panel configurations			T'Jollyn, Ilya			An integrated EnergyPlus simulation framework for Building Information Modeling-based building envelope generative design			Aydin, Mehmet Akif			Impact of Space Utilization on Energy Cost and Energy Performance of a nearly Zero- Emissions Office Building			Norouzzadeh, Alireza			CFD Simulation Analysis of the Impact of Additions on the Environment of Historical Settlements under Humid and Hot Climate Conditions			Li, Lee Kwan			Demonstrating the feasibility of LLMs to develop complex building energy models A.			Sur, Dipashree		
1645-1700	Student Competition Presentation 1						Data acquisition on building systems and operations in Urban Building Energy Modeling			Okawa, Nana			The influence of vegetation on the thermal comfort of open transitional spaces			Galán Marín, Carmen			Exploring energy implications in a mixed- mode building by linking air quality and occupant behaviour			Garg, Vishal			A shadow-cost-based long-term model predictive controller for a solar-based district heating system with tank thermal energy storage			Jansen, Jørgen			Coupling of multi-zone dynamic energy simulations with life cycle assessment for residential building renovation			Scheipers, Hamelore			Impact of refrigerant undercharge and overcharge faults on building indoor conditions and HVAC system performance during cooling seasons: Field measurements			Im, Piljae			Clustering-based framework for large urban studies: A case study in Taipei City			Phichetkunbodee, Non			Integrating artificial intelligence in urban design: A neural network-driven approach for noise mitigation optimization			Guo, Mengdi		
1700-1715	Student Competition Presentation 2						Deep learning-based surrogate modeling for optimal control of climate-responsive adaptive facade systems			Zhang, Chengchen			Modeling the impact of diverse extreme climate scenarios on residential buildings with renewable energy and storage in cold regions: A techno-economic analysis			Rehman, Hassam ur			Personal Comfort Models in shared spaces: A review of trends, challenges, and future directions			Alamirah, Haneen Nader			Advanced solar radiation decomposition model: utilizing Random Forest-Symbolic Regression across diverse climatic zones			Georgian, Aleksandr			Exploring the energy and CO2 emissions implications of climate-responsive design strategies applied to residential dwellings in Latin America			Chi Poo, Doris Abigail			Radiant floors as a feasible solution for residential heating and cooling: a simulation- based performance analysis			Bizzari, Marco			Identification of simple dynamic Building- Stock Energy Models for the heat dynamics in residential buildings			Van Hove, Matthias			Transfer learning of surrogate models for building energy prediction			Evins, Ralph		
1715-1730	Day Recap and Close: IBPSAA President - Quentin Jackson																																																					
1730-1930	Conference poster and exhibitor cocktail function																																																					

PROGRAM SCHEDULE | DAY 3 - TUESDAY, AUGUST 26 - ALL ROOMS

Registration (arrival tea and coffee)																				
	Live Stream Room																			
	Primary - Plaza Terrace Room		Mezzanine M1		Mezzanine M2		Plaza P1		Plaza P2		SI									
0845-0900	Welcome & IBPSA address IBPSAA Treasurer - Nicki Parker																			
0900-0940	Keynote address: AI in Building Performance Simulation		Professor Pieter de Wilde																	
0940-0950	Sponsor Address: Aurecon																			
0950-1030	Keynote address: How NABERS is reducing measured emissions and improving building simulation practice		PC Thomas																	
Morning tea 1030-1100																				
Poster sessions - in foyer																				
Theme	Indoor Environment Quality IEQ		Climate Change Mitigation & Adaptation CCMA		Energy Efficiency and Sustainability EES		Indoor Environment Quality IEQ		Energy Efficiency and Sustainability EES		Energy Efficiency and Sustainability EES									
	Session Chair: TBC		Session Chair: TBC		Session Chair: TBC		Session Chair: TBC		Session Chair: TBC		Session Chair: TBC									
1100-1115	Aleatoric and epistemic uncertainties in occupant behavior models for residential buildings: real-life cases		Kim, Sunghyun Estimating indoor mortality and heat risk in residential dwellings in extreme weather scenarios		Nagy, Zoltan Modeling the impact of occupant behaviour on direct load control of HVAC systems		Dehira, Himanshu An IoT Scheme for Energy Efficiency, IMQ with Noise Characterization and Measurement in the Smart Building		Dehira, Himanshu Electrochemical Modelling of a Sodium Metal based Desalination Battery for Electrolysis and Trigeration using Direct-Current Generator in Ships		Chen, Hongrui A RAG-based framework for material matching in LCA: integrating semantic and character similarity with AI-driven explanations									
1115-1130	Estimating the number of occupants using machine learning based on carbon dioxide concentration data from IoT sensors in two buildings		Kim, Jhehyun Evaluation of active mitigation measures in improving residential district cooling resilience		Wu, Yi Application of an Adaptive Gaussian Mixture Regression for Fault Detection and Diagnosis across various HVAC Systems		Wen, Shuang Fast prediction model for indoor temperature distribution based on adaptive spatio-temporal graph convolutional networks		Park, Young-soon Long-range airborne impact analysis of a classroom under different occupancy scenarios		Wei, Dirk Model-based co-design of LowEx heat supply and active thermal insulation systems									
1130-1145	Feasibility study on predicting personal thermal comfort using EEG in dynamically changing thermal environments		Park, Jeongan Evaluating global residential energy demand across various bottom-up simulations		Gomi, Yushin IBPSA Project 2 Building Optimization Framework (BOPTST): Overview, new software features, and example use		Xiao, Yao Long-range airborne impact analysis of a classroom under different occupancy scenarios		Verleyen, Lucas Comparing collective air-source and collective ground-source heat pumps in fully integrated, optimally controlled residential systems		Tosatto, Alice Design and numerical modelling of seasonal water-based tanks in-tank thermal energy storage for district heating systems									
1145-1200	Modelling and predicting classroom indoor air quality using machine learning algorithms		Dong, Jierui A digital platform for heatwave vulnerability assessment in non-air-conditioned residential buildings: Lyon Metropolis case		Maratier, Julien Price-aware RL for HVAC control: maintaining comfort and enhancing flexibility validated across dual open-source scenarios		Wang, Xinlin Predicting health risk due to Legionella pneumophila bacteria while showering		De Jonge, Laura A TRNSYS modeling approach to optimize the design and operation of heat pump systems in district energy networks		Gallant, Mathilde Integrated optimal control and borefield sizing for (small) hybrid heating and cooling systems									
1200-1215	A comprehensive review of machine learning techniques for optimizing daylight in high-performance buildings		Heidari Matin, Negar How much active cooling is needed in Estonian multifamily apartment buildings to comply with Category II thermal comfort?		Onemir, Kátrín Enhancing indoor air quality and energy efficiency through life cycle cost analysis		Schluter, Philipp Coupling health impact and building performance: a virtual testbed for health-centric building system operation		Fung, Siu-Fung Hybrid Heat Pumps, the answer for the future electric grids?		Scozzia, Rossano Translating low-temperature district heating: A large-scale feasibility mapping of multi-family apartment buildings in Greater Donya									
1215-1230	Improving indoor environment quality through digital twin integration for office spaces		Ito, Sei Analysis of multifactorial drivers of the Urban Heat Island effect in Vienna: A scalable method for urban settings using open data sources.		Khalili Nars, Behrooz Experimental analysis of an innovative RC-Mapping model for flexibility quantification of building air conditioning systems		Wang, Hulong Indoor thermo-photometric occupant's evaluation: what lies beneath perception, discomfort and preferences?		Rakotaroivo, Toky Hybrid Heat Pumps, the answer for the future electric grids?		Degein, Alireza Development of a fast, dynamic tank thermal energy storage model for system simulations									
Lunch 1230-1330																				
Poster sessions - in foyer																				
Theme	Education		Climate Change Mitigation & Adaptation CCMA		Energy Efficiency and Sustainability EES		Indoor Environment Quality IEQ		Energy Efficiency and Sustainability EES		Energy Efficiency and Sustainability EES									
	Facilitator: Pamela Fennell		Session Chair: TBC		Session Chair: TBC		Session Chair: TBC		Session Chair: TBC		Session Chair: TBC									
1330-1345	Panel: Educating the next generation of BPS professionals-What are the gaps?		Bouding long-term building energy performance with single-year extreme weather files		Crawley, Druary Lessons Learned from a Field Study on Deep-Learning-Based Model Predictive Control for Optimizing the Operation of Facade Ventilation Units		Lorenz, Clara Using neural networks for the classification of activities in an office: An application for a better prediction of CO2 concentration in tertiary buildings		Zhang, Zhe Multi-objective optimization method application based on genetic algorithm in energy and cost saving for existing houses in Australia		Yuan, Jihui Optimizing energy efficiency and indoor comfort through predictive models of building envelope heat transfer									
1345-1400			Optimization of heating and cooling energy demand and indoor thermal comfort under oceanic climate conditions using machine learning		Salehipour Bavasad, Fatemeh Evaluation of "Active Cavity Transition" (ACT) facade modelling based on Measured data of a 1:1 Scale Test Mock-up		Hiller, Marion Toward multi-domain occupant-centric indoor-environmental quality indicators		Mahdavi, Audeh Optimizing retrofit strategies for terraced dwellings: Case study		N Nair, Ajith Multi-objective building envelope optimization for thermal comfort and energy efficiency of educational buildings in India									
1400-1415			Comparing micro climate weather conditions from the weather research and forecasting (wrf) model with typical weather data		Li, Fengqi Effects of the types of double-skin facades on sunlight availability and potential food self-sufficiency for agri-facades in temperate zones		Zhang, Xi Predicting sea-based thermal sensation differences: a multilevel ordinal regression approach		Favero, Matteo Effective Retrofitting: Energy Efficiency measures for vintage buildings in Boston		Bi, Qianru A comparative study on photovoltaic vacuum glazing (PVVG) for office buildings in Shanghai									
1415-1430			A novel approach of hourly weather data downscaling from GCM for building performance simulation		Shen, Pengyuan Assessing solar performance in advanced facades: Comparative analysis of control strategies using a dynamic key performance indicator		Gaizhi, Riccardo Enhancing thermal comfort in public spaces through agent-based and performance-based modeling		Wang, Xiaotong Evaluating the impact of remodeling and purpose change on the performance and energy efficiency of modern educational buildings		Shokri, Elham Semi-Passive Adaptation of Glazing Visible Transmittance for Optimizing Indoor Daylighting									
1430-1445			Evaluating climate model accuracy for building energy predictions: A performance-based multi-model ensemble approach		Iddio, Emmanuel Enhancing U-value accuracy: A simulation-based approach to building envelope assessment		Song, Ahnyun Spatio-temporal prediction of indoor thermal environment based on Graph Neural Networks and Recurrent Neural Networks		Wang, Yinghan Disentangling rebound effects and construction errors in building retrofits using integrated energy signature analysis		Lee, Doyeon Cooling potential of transparent roof spray in public buildings: Evidence from hot-humid areas									
1445-1500			Improved urban canopy model for building energy simulation with ray tracing		Bourquin, Léo A reliable and simplified whole-of-home energy rating tool for housing retrofitting		Ren, Zhengeng A study on the shielding effect of neck fan on Zhang, Hootian air pollutants at the mouth and nose area		Li Castri, Geneva Towards an evaluation framework to enhance building energy independence and flexibility by means of transparent responsive building envelope elements		Zech, Philipp Quantifying the Simulation-Reality Gap in Building Simulations		Mao, Huijun Are hourly building energy simulations underestimating peak demand? A case for finer time resolutions.							
Afternoon tea 1500-1530																				
Theme			Climate Change Mitigation & Adaptation CCMA		UBEM		Indoor Environment Quality IEQ		Energy Efficiency and Sustainability EES		Energy Efficiency and Sustainability EES									
			Session Chair: TBC		Session Chair: Martina Ferrando Francesco Causone		Session Chair: TBC		Session Chair: TBC		Session Chair: TBC									
1530-1545	Clear Room for Dinner Setup		Thermal mitigation strategies based on the study of facades and roofs at an urban scale		Galan Marin, Carmen Thermal mitigation strategies based on the study of facades and roofs at an urban scale		Zeng, Tiansheng FDTD-based simulation and optimization of open plan offices involving novel acoustic lattices and retroreflectors		Saini, Himanshu Bridging methodological gaps in building life cycle assessment: a case study in the Indian context		Zhan, Sicheng Dealing with corner cases in occupant-centric control: do physics-informed models help?									
1545-1600			Research on the influence of traditional street morphology on outdoor thermal comfort in dry and hot regions: A case study of Kashgar Terraced Households		Abuduwailiti, Abudurehman Numerical Simulation of the Effect of Indirect Green Facades on the Wind Environment		Jakubiec, J. Albin A library of fits for daylight and visual comfort simulation: recommendations and testing in Canadian climates		Go, Jabin Energy saving potential analysis of indoor aquaculture through optimal control strategies based on building energy simulation		Saeed, Muhammad Hafeez Pi-DON: Physics-Informed Deep Operator Network for Control-Oriented Modeling of Thermal Systems in Cluster of Buildings									
1600-1615			Workshop: Archetypes for Urban Building Energy Modelling (UBEM)		Su, Meifang ACFD-based corrected nodal approach to better assess people exposure to pollutants in a room		Carmec, Nicolas A CFD-based corrected nodal approach to better assess people exposure to pollutants in a room		Wang, Liping Dynamic integrated modelling for controlled environment agriculture: methodology and experiment		Van Hove, Matthias Grey-box room model for thermal MPC control in classrooms: a virtual experiment									
1615-1630			Distributed model-based predictive control for peak load management using Arduino-based LoRa communication		Choi, Kwangwon A unified approach to modeling modern heat pump technologies		Fabrizio, Enrico Assessing energy savings potential of Personalised Environmental Comfort Systems (PECS) in air-conditioned buildings		Zanetti, Ettore IBPSA Project 2 BOPTST: An update on the test cases available in the framework for testing advanced control strategies in smart buildings		Kim, Jiwon Quantifying time delays in environmental, behavioral, and energy consumption data to understand occupant space usage patterns									
1630-1645			Scalability of multi-agent control for buildings: automated setup from BACnet to control		Siewers, Felix Simulating the impact of air purifiers on indoor PM2.5 concentration and optimization of natural ventilation		Perinigo, Giovanni Role of control strategies in unlocking energy flexibility using building thermal mass		Afroz, Zakia Impact of window performance on the thermal comfort and energy consumption in the building equipped with internal		Bouglia, Nizar Open set domain adaptation and universal domain adaptation for enhancing activity recognition in smart buildings									
1645-1700													Sao, Rosa Improving daylight performance and energy efficiency of traditional dwellings through multiple courtyards: a case study in Suzhou							
1800-1845	Poster sessions - in foyer																			
1900-2300	Conference Gala Dinner																			

PROGRAM SCHEDULE | DAY 4 - WEDNESDAY, AUGUST 27 - ALL ROOMS

0820-0900	Registration (arrival tea and coffee)									
	Primary - Plaza Terrace Room	Mezzanine M1	Mezzanine M2	Plaza P1	Plaza P2	Plaza P3	Plaza P4	Plaza P5	S1	
0845-0900	Welcome & IBPSA address	IBPSAA President - Quentin Jackson								
0900-0940	AGM, IBPSA Awards & Student Competition Award									
0940-0950	Sponsor Address: Design Builder - PC Thomas									
0945-1030	Keynote address: The useful lie: QA in BPS and the quest for code compliance	Dr Mike Donn								
Morning tea 1030-1100	Poster sessions - in foyer									
Theme	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Indoor Environment Quality IEQ	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES			
	Session Chair: TBC	Facilitator: Priya Gandhi	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC
1100-1115	Using CFD as an energy efficiency design tool Vogt, Jonathan for an auditorium and airport baggage hall William	Panel: From performance to policy - how to bring NABERS to your country	Energy Performance Gap in a Net-Zero building: Taxonomy of Noise and Entropy Indices for Power, Energy and Energy Availability Dehra, Himanshu	Determining the optimal specifications of cooling systems in highly glazed buildings using design of experiments method Merabstine, Abdelatif	Research on energy influence factors and operational optimization strategies of subway station HVAC systems: A case study of Suzhou Ji, Ying	Harnessing digital twin for simulation performance analysis, using a hemiporete building Bana, Atatiya Paterson	Simplified energetic assessment of complex one office building renovated to comply with GB 55015-2021 under three different Meng, Xiangnan			
1115-1130	Green walls for solar shading: a novel thermal performance model applied to a case study Rugani, Roberto		Explainable transfer learning for activity recognition in smart buildings Amayri, Manar	The impact of virtual reality-simulated learning space design on high school students' attention and stress levels: An Lin, Hanfei	Evaluating local energy sharing potential for enabling net-zero energy communities Ben, Hui	AI-Driven multi-objective optimization of pavement and roofing strategies for enhanced thermal comfort in urban Indian Rangaswamy, Deepa Rani	Operational energy-saving rate prediction of Meng, Xiangnan			
1130-1145	Simulating cooling loads for personal environment comfort systems Rawal, Rajan		Innovative design of adjustable multi-slat photovoltaic shading devices for energy-efficient office spaces in Sydney Nazari, Sarah	Topological optimization of 3DP plasters for indoor moisture buffering Gentile, Vincenzo	Impact of occupancy patterns on buildings performances gaps: how the gap is sensitive to stochastic occupancy behavior? Hamdy, Mohamed	Toward urban decarbonization: environmental and financial evaluation of neighborhood-scale multifamily retrofit Felkner, Juliana	Comparative evaluation of ANN and NARX models for localized air temperature prediction in Al Ain, UAE Elnabawi, Mohamed Hussein			
1145-1200	Comparison of a "model of the model" approach with directly measured reference values for assessing the energy efficiency of Hudjetz, Stefan		Contribution of CFD simulation on the design and characterization of a wind tunnel for air leakage measurements Barone, Flavia	A Simulation-Based Approach to Assess and Support Acoustic Characterization and Design in Classrooms Cappelletti, Francesca	Towards a digital shadow: Methodology development for continuous commissioning of domestic hot water systems Wildfeuer, Johannes Nicola	Adaptive energy management of Swedish residential buildings using artificial intelligence and reinforcement learning for Moshari, Amirhosein	ETNA empirical validation: initial steady-state cases and simulation trials Neymark, Joel			
1200-1215	IBPSA Modelica Working Group: Open-source model development based on open standards to accelerate decarbonization Wetter, Michael		Evaluating the descriptive and predictive ability of the grey-box modelling technique during summertime in a Passivhaus office Azad Gilani, Nooman	Bayesian optimization of supply air direction in existing aircraft for cabin air quality improvement Chen, Chun	Strengthening the effectiveness of building energy efficiency labels for existing office buildings in Taiwan Chiu, Hung-Chi	Finding the root cause of a control issues, does an artificial intelligence optimise a building more effectively than automated Marston, Annie	Correlation analysis between energy conservation potential and spatial form of existing buildings in hot summer and cold Lin, Deqing			
1215-1230	Design guidelines based on the impact of indoor living walls on building cooling energy consumption Iddio, Emmanuel		Sensitivity analysis of US housing stock building characteristics using ResStock Supriyato, Alessandro	Thickness-dependent coupled thermo-optical model of translucent material: a case study of glazing unit filled with granular silica aerogel Zhou, Yangkang	Perfect Matching: Comparison of methods for deriving energy-optimized occupancy schemes Hammes, Sascha	Summer thermal control through window-integrated ventilation systems in a real laboratory Weger, Regina	The influence of Spatial Volume on building performance in Sports Arenas Guo, Jiayi			
Lunch 1230-1330	Poster sessions - in foyer									
Theme	Urban Planning & Smart Cities UPSC	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES			
	Session Chair: TBC	Pieter de Wilde	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC
1330-1345	Deriving high-fidelity residential building archetypes and typical usage patterns from national energy use surveys to enhance "initial guesses" for Urban Building Energy Li, Chenguan	Workshop: IEA Annex 91 - openIBM for Energy Efficient Building Workshop	Inverse Physics-Informed Neural Networks for thermal parameter estimation of existing buildings Kim, You-Jeong	Thermal environment analysis of a radiant floor cooling and underfloor air-conditioning system based on detailed building physics using coupled BES-CFD Yang, Xianzhe	On the use of latent thermal energy storage to cut the energy costs in space cooling: from Gianluca job to home Slaviero, Gianluca	Validation of CIE sky models using luminance data from Gurgaon and Chennai, India Bhalla, Ankit	Case study on Analysing Whole Carbon Emissions based on Actual Energy Consumption in Existing Buildings Cho, Suhyun			
1345-1400	Integrating TRNSYS and CityGML in urban district simulations: A comprehensive case study in urban energy systems Pérez, Cecilia		Case study of residential energy management systems with solar PV, wind and battery energy storage Kadir, Nourin	Optimizing indoor environment and energy consumption in a museum building using specialized data-driven software Zygmunt, Marcin	Urban building energy modeling challenges: Evaluating zoning approaches and window impacts on energy consumption Kim, Yeoun	Enhancing BIPV performance through fin integration: A co-simulation approach Alzade, Abdella	The influence of cement addition on moisture variation in the restoration of time base brick walls Tsai, Cheng Yen			
1400-1415	Thermal Synergy (TS) for fifth-generation district heating and cooling (SGDHC) networks early-stage design and feasibility Bilardo, Matteo		Predictive and transactive controls for EVE park net-zero community with AI/ML models Kadir, Nourin	Occupancy profile of residential buildings with remote workers André, Maira	Multi-dimensional level of detail (LoD) specification for urban energy models Gunay, Burak	Battery storage potential in meeting NZEB energy performance requirements in Estonia Võsa, Karl-Ville	Developing a calibrated in-situ hygrothermal model of a community center to assess panelized exterior retrofit design suitability McNally, Jordan			
1415-1430	Solar potential in the extension of old residential communities based on Inter-Building Effects: a case study of Nanjing Tian, Yuqi		Optimizing solar energy collection potential in high-rise residential buildings in urban areas Lotfipoor, Ferdows	Quantifying the Influence of the Roof Cover on the Water Evaporation Rate in Indoor Swimming Halls Smedegård, Ole Øiene	Co-simulation workflow to evaluate the building level performance of Vertical Greenery Wall Systems in climate change scenario for office buildings in temperate climate Raad, Aseel	A multi-year stochastic optimization model for battery system design and operation: addressing uncertainties alongside degradation effects Mohabbi, Parastoo	Synergistic effects of Phase Change Material and Hygroscopic Materials on heat and moisture transfer in building envelopes Chen, Lufang			
1430-1445	Synergistic effects of uncertain parameters on the stability of urban building energy modeling Wang, Chao		Simulation-based benchmarking of VVWART for fault detection in heat interface units Van Minnebruggen, Senne	Innovative workflow for analysing centralised thermal plant in Northshore Brisbane Montolalu, Abigail	Unraveling the energy performance gap: Understanding user-related factors affecting lighting energy consumption in office buildings Hammes, Sascha	Energy savings potential in domestic hot water supply in Germany Schmitz, Daniel	Thermal and energy performance assessment of multi-layer façade systems with latent heat storage materials: an analysis of climatic conditions in Montreal Arasteh, Hossein			
1445-1500	Spatial autocorrelation analysis for shading effect of buildings in gyeonggi province using local indicators of spatial association Yi, Donghyuk		Applicability analysis of compressors in subway stations based on load characteristics Luan, Chengzhi	Development of a low energy building using an integrated system of bio-phase change materials and roof-top greenery system. Devkota, Kushal	Quantitative analysis of landscape interventions for microclimate improvement in low-rise residential areas of Trichirappalli, India S, Amalan Sigmund Kaushik	Comparison of machine learning algorithms for building performance evaluation Rachman, Arinda P.	Differentiable predictive control unlocks latent energy storage in bio-based phase change material enhanced buildings Jin, Yonggun			
Afternoon tea 1500-1530	Poster sessions - in foyer									
1530-1600	IBPSA Women Launch	Noni Nuriani								
1600-1700	Closing Keynote: Back yourself - how to take your spot in the world	Winitha Bonney OAM								
1700-1730	Next Conference Announcement									
1715-1730	Conference Close	IBPSAA President - Quentin Jackson								
1730-1900	Conference farewell cocktail function									