

TUESDAY 5TH JUNE		WEDNESDAY 6TH JUNE		THURSDAY 7TH JUNE			
08:15 - 08:45	Coffee and Registration	Energy and Thermal Comfort		<i>Chair: dr. ir. Sabine Jansen</i>	Generative Urban Design, Energy and Microclimate		
08:45 - 08:55	Welcome by Andy van den Dobbelaer, acting Dean of the TUDelft Faculty of Architecture and the Built Environment	08:30 - 08:45	Simulating Thermal Comfort Analytically through Exergy Analysis (<i>Hongshan Guo, Forrest Meggers</i>)	08:30 - 08:45	Cellular Automata: Bridge between Building Variability and Urban Form Control (<i>Barbara Andrade Zandavali and Benamy Turkienicz</i>)		
08:55 - 09:20	SimAUD 2018 Welcome & Announcements, by Tarek Rakha and Michela Turrin	08:45 - 09:00	Investigating the Link between CO2 Concentration, Thermal Comfort and Occupant Perception in Educational Buildings (<i>Merve Kuru, Gulben Calis</i>)	08:45 - 09:00	Generative Urban Design: Integrating Financial and Energy Goals for Automated Neighborhood Layout (<i>Danil Nagy, Lorenzo Villaggi, and David Benjamin</i>)		
09:20 - 09:50	Speech by Peter Russell	09:00 - 09:15	Demand-controlled Ventilation through a Decentralized Mechanical Ventilation Unit for Office Buildings (<i>Bonato Paolo, D'Antoni Matteo and Fedrizzi Roberto</i>)	09:00 - 09:15	Simulation of Urban Microclimate with SOLENE- microclimat - An Outdoor Comfort Case Study (<i>Clement Imbert, Sagnik Bhattacharjee, Jiri Tencar</i>)		
09:50 - 10:00	Coffee - served in Berlage Zaal 2	09:15 - 09:35	Questions and Panel Discussion with the Authors	09:15 - 09:30	Validation and Comparison of Different CFD Simulation Software Predictions of Urban Wind Environment based on AIJ Wind Tunnel Benchmarks (<i>Jing Li, Aymeric Delmas, Michael Donn, et al.</i>)		
Daylight		<i>Chair: dr. ir. Regina Bokel</i>	09:35 - 10:00	Coffee - served in Berlage Zaal 2	09:30 - 09:50	Questions and Panel Discussion with the Authors	
10:00 - 10:15	Machine learning algorithm-based tool and digital framework for substituting daylight simulations in early-stage architectural design evaluation (<i>Kacper Radziszewski, Marta Waczynska</i>)	Energy and Occupants		<i>Chair: dr. ir. Martin Tenplerek</i>	09:50 - 10:10	Coffee - served in Berlage Zaal 2	
10:15 - 10:30	Artificial Neural Network-Based Modelling for Daylight Evaluations (<i>Clara-Larissa Lorenz, Michael Packianather, A. Benjamin Spaeth</i>)	10:00 - 10:15	Light Weight Look Ahead Options of Personal Interaction in Buildings (<i>Vinu Subashini Rajus, Robert Woodbury</i>)	Urban Models			
10:30 - 10:45	OCUVIS: A Web-Based Visualizer for Simulated Daylight Performance (<i>Siobhan Rockcastle, Maria L. Amundadottir and Marilyne Andersen</i>)	10:15 - 10:30	To Participate or not to Participate? Selecting the Right Participant Profile for Thermal and Visual Comfort Studies (<i>Gulben Calis, Merve Kuru, Jessica Mouawad</i>)	10:10 - 10:25	Urbano: A New Tool to Promote Mobility-aware Urban Design, Active Transportation Modeling and Access Analysis for Amenities and Public Transport (<i>Timur Dogan, Samitha Samaranyake, Nikhil Saraf</i>)		
10:45 - 11:00	Assessing the Circadian Potential of an Office Building in the Southeastern US (<i>Armin Amirazar, Mona Azarbayjani, Ok-Kyun Im, et al.</i>)	10:30 - 10:45	Reducing Domestic Energy Consumption using Behavioural Economics, Evaluation of Three systems (<i>Alejandro Guzman Botero, Cristina Nan</i>)	10:25 - 10:40	Data-driven State Space Reconstruction of Mobility on Demand Systems for Sizing-Rebalancing Analysis (<i>Dimitris Papanikolaou</i>)		
11:00 - 11:10	Predicting Duration of Daylight Exposure for Caregivers Using Discrete Event Simulation and Climate-Based Daylight Modeling (Short Paper) (<i>Khatereh Hadi, Olivia Pewzer</i>)	10:45 - 11:00	A Framework of Occupant Behavior Modeling and Data Sensing for Improving Building Energy Simulation (<i>Mengda Jia, Ravi S. Srinivasan, et al.</i>)	10:40 - 10:55	Modelling Approach for Building Cluster Scale (<i>Ilaria Vigna, Marco Lovati and Roberta Perneti</i>)		
11:10 - 11:30	Questions and Panel Discussion with the Authors	11:00 - 11:20	Questions and Panel Discussion with the Authors	10:55 - 11:10	System Dynamics for Modeling Metabolism Mechanisms for Urban Planning (<i>Reinhard Koenig, Martin Blielik and Sven Schneider</i>)		
11:30 - 12:30	Lunch - served in Berlage Zaal 2	11:30 - 12:30	Lunch - served in Berlage Zaal 2	11:10 - 11:25	Quantifying the Urban Experience: Establishing Criteria for Performance Based Zoning (<i>Luc Wilson, Jason Danforth, Dennis Harvey, et al.</i>)		
12:45 - 13:45	SimAUD Public Keynote (location: Orangehall) - Embracing Daylighting Dynamics in Human-driven Design (<i>Marijlyne Andersen</i>)	12:45 - 13:45	SimAUD Public Keynote (location: Orangehall) - The Fusion of Design and Performance: Integrating Building Science into Architectural Practice (<i>Andrea Love</i>)	11:25 - 11:45	Questions and Panel Discussion with the Authors		
Building Geometry: Energy and Multidisciplinary Criteria		<i>Chair: prof. dr. ir. Sevil Sarilydiz</i>	Layouts and Human Behaviour		<i>Chair: dr. Reinhard König</i>	11:45 - 12:30	Lunch - served in Berlage Zaal 2
14:00 - 14:15	Addressing Pathways to Energy Modelling through non-manifold Topology (<i>Aikaterini Chatzivasileiadi, Simon Lannon, Wassim Jabi, et al.</i>)	14:00 - 14:15	Observed Behaviours in Simulated Close-range Pedestrian Dynamics (<i>Omar Hesham, Princy, Walter Aburime, et al.</i>)	12:45 - 13:45	SimAUD Public Keynote (location: Orangehall) - Research Matter(s)... Architecture, Engineering, and Technology (<i>David Gerber</i>)		
14:15 - 14:30	Case Study for the Application of Multidisciplinary Computational Design Assessment and Constructability Optimisation Tools (<i>Alexandros Christodoulou, Mathew Vola, Gijs Rikken</i>)	14:15 - 14:30	Architectural Spatial Design for Agent-Based Human Behaviour Using Crowd Simulation (<i>Mahdiar Ghaffarian, Roxane Fallah, Christian Jacob</i>)	Poster sessions - in Berlage Zaal 2			
14:30 - 14:45	Parametric Modeling Framework for Architectural Integration of BIPV Systems (<i>Linus Walker, Stefan Caranovic, Johannes Hofer, et al.</i>)	14:30 - 14:45	Applications of Human Task and Disability Based Automated Evaluation of Design in CAD (<i>Mathew Schwartz, Adara Azeez and Kanisha Patel</i>)	14:30 - 15:00	Coffee - served in Berlage Zaal 2		
14:45 - 15:00	Methodology for Determining Penetration Ranges for Daylight and Energy Efficiency in Estonia (<i>Francesco De Luca, Timur Dogan and Jarek Kurnitski</i>)	14:45 - 14:55	A Dashboard Model to Support Spatio-Temporal Analysis of Simulated Human Behavior in Future Built Environments (Short Paper) (<i>Michal Gath-Morad, Einat Zinger, Davide Schaumann, et al.</i>)	Environmental Models and Data Collection			
15:00 - 15:15	FloorspaceJS—A New, Open-Source, Web-Based 2D Geometry Editor for Building Energy Modeling (BEM) (<i>Daniel Macumber, Scott Horowitz, Marjorie Schott, et al.</i>)	15:15 - 15:15	Questions and Panel Discussion with the Authors	15:00 - 15:15	Radiant Image based data post-processing and simulation (<i>Navid Hatfonia, Marjan Ghobad</i>)		
15:15 - 15:35	Questions and Panel Discussion with the authors	15:15 - 15:30	Coffee - served in Berlage Zaal 2	15:15 - 15:30	Identifying the Surface Materials of the Existing Environment through Point Cloud Data Attributes (<i>Miktha Farid Alkadri, Michela Turrin, Sevil Sarilydiz</i>)		
15:35 - 16:00	Coffee - served in Berlage Zaal 2	Innovative Fabrication and Design Process		<i>Chair: dr. ir. Serdar Asut</i>	15:30 - 15:45	Developing a Workflow to Integrate Tree Inventory Data into Urban Energy Models (<i>Farzad Hashemi, Breanna Marmur, Ulrike Passe, et al.</i>)	
Building Envelopes and New Materials		<i>Chair: dr. ir. Thaleia Konstantinou</i>	15:30 - 15:45	Structural Sculpting: A designer's approach to robotically carved stone structures (<i>Joseph Choma</i>)	15:45 - 16:00	An Image-based Method to Evaluate Solar and Daylight Potential in Urban Areas (<i>Christina Chatzippoulka, Raphael Compagnon and Jerome Kaempf</i>)	
16:00 - 16:15	Coupled Modeling and Monitoring of Phase Change Phenomena in Architectural Practice (<i>Billie Faircloth, Ryan Welch, Yuliya Sinke, et al.</i>)	15:45 - 16:00	Robotic Fabrication of Segmented Shells: Integrated Data-Driven Design (<i>Elena Shilova, Mithuna Muruges, Michael Weinstock</i>)	16:00 - 16:15	CitySeek: Towards Urban Daylight Models based on GIS Data and Semi-automated Image Processing (<i>Timur Dogan and Maksis Knutins</i>)		
16:15 - 16:30	Multivalent Analysis of Double-Skin Envelope Dynamic Hygrothermal Louver System (<i>Aletheia Ida</i>)	16:00 - 16:15	Using Interactive Evolution to Design Behaviors for Non-deterministic Self-organized Construction (<i>Mary Katherine Heinrich, Payam Zahadat, John Harding, et al.</i>)	16:15 - 16:35	Questions and Panel Discussion with the Authors		
16:30 - 16:45	Adaptive Roof Aperture for Multiple Cooling Conditions (<i>Dorit Aviv</i>)	16:15 - 16:30	KIRIGAMI (<i>Jingyang Liu, Jasmine (Chia-Chia) Liu, Madeleine Eggers et al.</i>)	16:35 - 17:00	Afternoon drinks - served in Berlage Zaal 2		
16:45 - 16:55	Graphene Embedded Composites for Thermal Performance Optimization of Traditional Construction Materials (Short Paper) (<i>Athanasios Zervas, Gelder Van Limburg Stirum, Ricardo Mayor Luque, et al.</i>)	16:30 - 16:45	Urban Glitch: A VR platform for participatory design (<i>Eleni Polychronaki, Maria Christina Manousaki, Maria Aceytuno Poch et al.</i>)	Presentations and Panel Discussion with Invited Panelists			
16:55 - 17:15	Questions and Panel Discussion with the Authors	16:45 - 17:05	Questions and Panel Discussion with the Authors	17:00 - 18:00	Panel: The Urban Scale. Chair: Tarek Rakha. Presentations by: Dan Macumber, Amber Bartosh, Danil Nagy. Panelists: David Gerber, Timur Dogan		
17:15 - 17:45	Afternoon Drinks - served in Berlage Zaal 2	17:05 - 17:20	Auto-Calibrated Urban Building Energy Models as Continuous Commissioning and Planning Tools (Short Paper) (<i>Shreshth Nagpal, Jared Hanson and Christoph Reinhart</i>)	18:00 - 18:30	SimAUD Closing Remarks & SimAUD 2019 Announcements		
Presentations and Panel Discussion with Invited Panelists		18:45 - 23:15	Conference Dinner and Awards on a sandy beach on the North Sea. A bus leaves from TUDelft at 18:45	18:30 - 20:00	Closing Drinks		
17:45 - 18:45	Panel: The Centrality of the User. Chair: Siobhan Rockcastle. Presentations by: Gabriel Weiner, Jon Sargent. Panelists: Billie Faircloth, Marilyne Andersen, Andrea Love						