





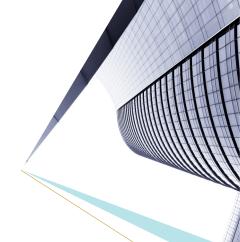
ASCAAD 2025 PRESENTATION SESSION

Wednesday, 22 th October 2025									
12:30 - 13:30	Paper ID	Session 1-A: Al & Computational Design in Architecture	12:30 - 13:30	Paper ID	Session 1-B: Al & Computational Design in Architecture				
	36	Unlocking Certainty in Commercial Development: A Data-Driven Model for Site Selection and Market Differentiation		39	Artificially Augmented Ottoman Baroque in Greece: Ornaments as a Radical Agent for Change				
	47	Motion as Drawing Medium: Reinterpreting Architectural Drawing Through Computational Approach		89	Towards an Intelligent Workflow for Historical Building Preservation: Reviewing Non- Destructive Crack Detection from Image Processing Techniques (pre-recorded)				
	91	Design Dialogues with GenAl: A Sequential Workflow of Hand, Machine, and Imagination in Architecture Education							
13:30 - 14:30	Paper ID	Session 2-A: Digital Fabrication & Construction Technology	13:30 - 14:30	Paper ID	Session 2-B: Digital Fabrication & Construction Technology				
	11	3D Printing Applications in the GCC Housing Market: Challenges and Opportunities		52	A Streamlined Decentralised Workflow for Obtaining Specific Mechanical Performance and Grade of 3DPC: Towards the Standardisation and Industrialisation of 3DCP				
	31	Cura Salada: Robotic Heated Spatial 3D Printing of Salt-Clay Composites for Health-Oriented Vernacular Architecture		106	The Impact of Robotic 3D Printing and Artificial Intelligence on Facade Revitalization-a Case Study: The Old City of Sana"a				
	41	Simulation-Informed Design of Kinetic Furniture: A Case Study of an Interactive Table for Social Engagement							
	99	Deployable Resilience: Computationally Designed Scissor-Structures for Culturally Responsive Disaster Camps							
15:00 - 16:00	Paper ID	Session 3-A: Building Information Modeling (BIM) & Graph Machine Learning	15:00 - 16:00	Paper ID	Session 3-B: Decolonizing Architecture & Localized Design				
	46	Toward a Robust AI for BIM: Dataset Challenges and Implications for the AEC Industry		4	Ink Meets Stone Meets Al: Integrating Traditional Ink Painting and Artificial Intelligence				
	104	Al-Enhanced Decision-Making in Construction Management: Opportunities, Challenges, and Future Directions		85	Collective Action and Material Awareness as Agents of Social Impact in Post- Disaster Housing				
	61	Blockchain Weaving as Architecture		95	Projecting Dialogue: Transforming a Lao Vernacular Roof into a Hybrid Debate Space: Heritage Architecture as a Platform for Learning and Civic Discourse				
	51	Architectural Informatics as a Tool for Adaptive Reconstruction: Retrofitting Identity in Post-War Syria		121	Decolonizing Western Design Logics				









ASCAAD 2025 PRESENTATION SESSION

Thursday 23 rd October 2025								
10:00 - 11: 00	Paper ID	Session 4-A: Urbanism & Smart Cities	10:00 - 11: 00	Paper ID	Session 4-B: . Digital Space & Virtual Environments			
	79	Sustainable Revitalization of Historic Urban Districts: Impacts on Spatial and Cultural Identity in Historic Cairo		22	Digitization of Heritage Sites via Augmented Reality: Accessibility of Suzhou Gardens forthe Differently Abled – A State of the Art Review of Empirical Studies			
	98	A Game-Based Participatory Framework for Hybrid Urban Space: A Strategy for Revitalizing Vernacular Heritage in Beijing's Hutong District (pre-recorded)		40	Exploring the Potential of Augmented Reality in Multi- Layer Historical Cities: A Proposal for the "Hippodrome - Horse Square - Sultanahmet Square" in Istanbul			
	124	Using Socio-economic Indicators, Smart Transit Systems, and Urban Simulator to Accelerate ZEV Adoption and Reduce VMT						
11:00 - 12:00	Paper ID	Session 5-A: Architectural Education & Pedagogy	11:00 - 12:00	Paper ID	Session 5-B: Architectural Education & Pedagogy			
	30	Robotics and Generative Al: Shaping the Future of Architectural Education and Practice		91	Design Dialogues with GenAl: A Sequential Workflow of Hand, Machine, and Imagination in Architecture Education (pre-recorded)			
	84	Application of Artificial Intelligence in Education: Experiment in Interior Architecture Projects		109	Pedagogical Innovations for Integrating Circular Economy Principles in Built Environment Higher and Further Education			
				90	When and How Is Al Taught? A Study on Teaching Formats in Architecture Schools			
12:30 - 13:30	Paper ID	Session 6-A: Energy & Sustainability in Architecture	12:30 - 13:30	Paper ID	Session 6-B: Online			
	81	Optimizing Mosque Façade Design: CFD- Based Analysis of Vernacular Serambi for Thermal Comfort		60	From Technical Automation to Cultural Mediation: Al-Powered Translation of Local Narratives into Heritage-Informed Design Knowledge			
	88	Ecological Interior Architecture in Contemporary Mosques: Connecting Sustainability and Wellbeing in Sacred Community Spaces		13	A Software for Generating Dimensioned Layouts for Given Adjacencies			
				28	SetEasy: A Multi-Modal Classroom Engagement Assessment and Seating Optimization Framework			
				7	The Sensory Impact of Light, Space and Material on Spatial Perception and Emotional Responses using VR			
13:30 - 14:30	Paper ID	Session 7-A: Online	13:30 - 14:30	Paper ID	Session 7-A: Online			
	111	Al-Driven Cymatic Architecture: Integrating Generative Al and Sound Data for Dynamic Spatial Design		57	Optimizing Urban Block Typologies for Solar Radiation Reduction and Enhanced View			
	62	BIM-BPMN Integration Framework for Construction Workflow Management: Improving Process Interoperability in the AECO Sector		53	Multisensory Perception and Memory Formation in Digital Spaces: Sound-Driven Spatial Experience in Virtual Environments			
	10	The Role of Artificial Intelligence in Developing University Education for Architecture		123	Planetary Architecture			
	48	Al-Supported Biomorphic Design Pedagogy: A Studio-Based Experiment in Architectural Education		80	Comparative Analysis of Thickness and Surface Topography in Mycelium Acoustic Panels			

