

ASCAAD 2025

PRESENTATION SESSION

Wednesday, 22th October 2025

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12:30 - 13:30	Paper ID	Session 1-A: AI & Computational Design in Architecture	12:30 - 13:30	Paper ID	Session 1-B: AI & 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 GenAI: 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 AI: Integrating Traditional Ink Painting and Artificial Intelligence
	104	AI-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



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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 for the Differently Aabled – 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 AI: Shaping the Future of Architectural Education and Practice		91	Design Dialogues with GenAI: 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 AI 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: AI-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	AI-Driven Cymatic Architecture: Integrating Generative AI 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	AI-Supported Biomimetic Design Pedagogy: A Studio-Based Experiment in Architectural Education		80	Comparative Analysis of Thickness and Surface Topography in Mycelium Acoustic Panels

