

	Tuesday 3 rd Workshops		Wednesday 4 th Symposium		Thursday 5 th Symposium		Friday 6 th Symposium		Saturday 7 th Social events	
9:00	Welcome & Registration (Foyer)		Welcome & Registration (Foyer)				Session 8 & 9 (Auditorium) Moderator: Sérgio Mendes			
9:30			Opening Session (Auditorium) Moderator: Catarina Ruivo Bruno Marques (Order of Architects – North Regional Section) David Leite Viana (Chair)		Session 5 (Auditorium) Moderator: Bruno Marques On the experience of architectural spaces: A pedagogical experiment using game engines (Efrosini Charalambous) Geographic Information Systems (GIS) in Architecture and Urbanism Education (Joaquim Flores) From Brush to AI: How Tools Have Transformed Architectural Paradigms (Ashik Vaskor Mannan, M. Arefeen Ibrahim)		Comparing Anthropogenic Water Risks from Climate Change in London and Kolkata (Tazyeen Alam) Towards a Unified Informatic Model for Cognitive Buildings: Integrating BIM, Actor Models, and Dynamic Fault Trees using Bigraphical Reactive Systems (P Govind Raj, Subrat Kar) Formal methods in flood disaster response: the case of Porto Alegre, Brazil (Ana Paula Dalcin, Camilla Pezzica, Clarice Bleil de Souza, Diego Altafini, Guilherme Marques)			
10:00			Session 1 (Auditorium) Moderator: Paolo Marcolin Plot systems and adaptation: a method for analysing space and time (Lais Bertolino, Vitor Oliveira) Deciphering Urban Morphogenesis: A Morphospace Perspective (Caio Cacholas, Dries Daems, Fabiano Lemes Ribeiro, Howard Davis, Vinicius de Moraes Netto) Co-learning between research and practice in planning: addressing the physical form of cities (Ana Mélice Dias, Vitor Oliveira) Can topography favour the competitiveness of pedestrian over car? (Álvaro Costa, Miguel Lopes, Nuno Miguel de Sousa Gomes, Vitor Oliveira)				ReLighting Spaces -Training daylight access cognition in combinatorial spatial assemblages using Reinforcement Learning (Alessio Erioli, Giuseppe Massafra) Reassembling Waste: Towards a Carbon Zero Built Environment (Inês Caetano, Luis Santos) Optimizing Sustainability through digital tools: Energy and Carbon Comparative Analysis of Brick, Concrete and Wood Frame Constructions in Coimbra Residences (Leonor Domingos)			
11:00			Coffee break (buffet / terrace)				Coffee break (buffet / terrace)			
11:30	“Reabilitação 4.0”: a fase de caracterização prévia na era da transição digital				Keynote 2 (Auditorium) Moderator: Catarina Ruivo Wassim Jabi <i>Syntopy: An integrated approach to geometry, topology, and semantics</i>		Coffee break (buffet / terrace)		Visit to Serralves Museum and Gardens (with expert guides Domingos Tavares and Laura Roldão Costa)	
12:00			Session 2 (Auditorium) Moderator: Joaquim Flores Visualizing Urban Experience: AI and Computer Vision Framework for Historic Commercial Streets in Egypt (Nabil Mohareb) Space Syntax as an agent based system. NETlogo framework proposal. (Ana Cocho Bermejo, Dave De Jonge) Analyzing the Network Effects of Vertically Layered Urban Structures on Pedestrian Movement: A Case Study of the Mostar Interchange in Belgrade (Aleksandra Djukic, Nikola Mitrovic)		Keynote 3 (Auditorium) Moderator: Catarina Ruivo Tasos Varoudis <i>Shapes of intelligible space, or, spaces of intelligible shapes?</i>		Keynote 4 (Auditorium) Moderator: David Leite Viana Meta Berghauser Pont <i>Urban morphometrics and Evidence-Based Design</i>			
12:30										
13:00			Lunch (buffet / terrace)				Lunch (buffet / terrace)			
13:30			Lunch (buffet / terrace)		Lunch (buffet / terrace)					
14:00	Motion Mapping: Introductory Workshop on Architecture & Urban Simulation with AnyLogic application Transforming Existing Buildings: A Collaborative Scan2BIM Workflow for Enhanced Design	Immersive Architectural Perception: Real-Time VR and 3D Modeling Workflow Building the Future – Robotic Construction Simulation with VR/AR Understanding Algorithmic Design: learning algorithms through illustrations Biomimicry Meets Computation: Generative Design and AI for Human-Nature Symbiosis	Keynote 1 (Auditorium) Moderator: Pedro Gomes José Pinto Duarte <i>Additive Construction on Earth and beyond: from research to practical applications</i>		Session 6 (Auditorium) Moderator: Franklim Morais A category-theoretic formalism for architectural design generation: a parametric modelling demonstration (Anders Ang, Aries Yang, Jielin Chen, Rudi Stouffs) Leveraging graph-based machine learning to represent and generate architectural layouts (Anders Ang, Aries Yang, Jielin Chen, Rudi Stouffs) Assembler – a tool for computational decision at scale in combinatorial generation of architectural spaces (Alessio Erioli) Automated Two-Story Floor Plan Generation using Generative Adversarial Networks (Berfin Yildiz, Gulen Cagdas, Ibrahim Zincir) From text to 3D models: Utilizing Large Language Models in Grasshopper for automating scripting and algorithmic design workflows (Miltiadis Katsaros, Styliani (Stella) Salta)		Keynote 5 (Auditorium) Moderator: Catarina Ruivo Franklim Morais <i>The role of AI in the future of society, the city, construction and architecture</i>			
14:30			Session 3 (Auditorium) Moderator: Jorge Vieira Vaz The Effect of Potencial Urban Elements on finding Direction in Urban Space Examplng of Kadiköy-Yeldegirmeni (Buse Erkan, Mehmet Emin Salgamcioglu) Formalization and Education in Architectural and Urban Design: Their Hermeneutic Dimensions (Carmen Escoda, Josep Muntanola, Magda Saura, Margaret Krawecka, Regina Garcia) Reimagining Human-Nature Coexistence: An Integrative Approach to Architectural Design with Biomimicry, Generative Modeling, and AI (Carina Oliveira, Mauro Costa Couceiro) Reimagining Digitalized Space: Integrating Meaning and Technology in Building Systems (Kaiko Kivi)				Session 10 (Auditorium) Moderator: Bruno Marques Computational Proportional Analysis of Inner Residential Spaces in Seventeenth-Century Bastion Castles (Olha Tikhonova) Exploring Variability Within 3D Shape Collections of Facade Panels of Modernist Multifamily Buildings in New Belgrade: A Methodological Framework (Djordje Djordjevic, Djordje Mitrovic, Mirjana Devetakovic) Neuroaesthetic Measures of High-Rise Housing Facades (Audrey Xu, Immanuel Koh) Kahn’s Two Houses: From Formal Analysis to Animated Synthesis (Heather Ligler)		Visit to UNESCO heritage site - PORTO Historic Centre (with expert guide José Pedro Tenreiro)	
15:00										
15:30			Coffee break (buffet / terrace)				Coffee break (buffet / terrace)			
16:30			Coffee break (buffet / terrace)		Coffee break (buffet / terrace)		Session 10 (Auditorium) Moderator: Catarina Ruivo			
17:00					Session 4 (Auditorium) Moderator: David Leite Viana		Session 7 (Auditorium) Moderator: David Leite Viana		Parametric Software and the Architectural Design (Bruno Marques, Darlene Julio) In-formation: shaping tools, composition rules, visual thinking and the creative processes (Gonçalo Castro Henriques, Marcio Nisenbaum, Tatiana Teixeira) Combining space syntax and kernel methods in the delimitation of the Matosinhos Urban Pressure Zone (David Leite Viana, João Quintão, Rui Fernandes)	
17:30									Closing Session (Auditorium) Moderator: Catarina Ruivo	
18:00			Architecting the Metaverse: A Paradigm Shift in Architecture Co-Design (Micaela Raposo, Nuno Pereira da Silva, Sara Eloy) AI-Driven Visual Generation: Generative Adversarial Neural Network (Gan) and Diffusion Models. (Pedro Meira-Rodríguez, Vicente López-Chao) Advancing Architectural Visualization: Boosting Scale and Reality with Augmented Reality (Chul Min Yeum, Jason Su)		Connecting Spaces and People: Point Cloud Segmentation in the Context of Design Anthropology (Amina Rezoug) Integrating Additive Manufacturing with BIM: A Case Study in Sustainable Architecture and Construction (Jaime Cunha) Nature’s Integration in Architectural Ornament through Photogrammetry (Pedro de Azambuja Varela, Francisco Scotti)		Avelino Oliveira (Order of Architects) Bruno Marques (Order of Architects – North Regional Section)			
18:30			Welcome Ceremony (Foyer)		Book Presentation (Auditorium) Presentation of the Book “Emerging Perspectives on Teaching Architecture and Urbanism” and the books of Proceedings of the former editions of the Symposia					
19:00					Symposium Dinner (ESPIGA – R. de Clemente Meneres 65)					
19:30										