

5th International Symposium Formal Methods in Architecture

15 October 2020

Time Lisbon (+0h)	Local time	Authors	Title
9h00	Opening	Lx Chairs	Opening
9h15	S1	Lx Inês Caetano, António Leitão	Mathematically Developing Building Facades: an Algorithmic Framework
9h30		+2 Ekin Ünlü, Sema Alaçam	Design to Experiment - Experiment to Design: Tool (User, Breaker, Designer)
9h45		+1 Shota Tsikoliya, Imro Vasko, Petra Sochurková, Daniel Svítak	Tectonics of Differential Growth. Folds in Additive Fabrication and Moulding for Architectural Design
10h00		+1? Robert R. Neumayr	Agent-based Semiology: Optimizing Office Occupation Patterns with Agent-based Simulations
10h15		Discussion	
10h30		(moderator - Jorge Vaz)	
10h45	Break		
11h00			
11h15	S2	+7? June-Hao Hou, Chi-Li Cheng	Reconstructing Photogrammetric 3D Model by Using Deep Learning
11h30		Tasos Varoudis, Alan Penn	Spectral Clustering and Integration: The Inner Dynamics of Computational Geometry and Spatial Morphology
11h45		+0 Andrew Malcolm, Jeroen Werbrouck, Pieter Pauwels	LBD server: Visualising Building Ontologies in Web-based Environments Using glTF-models
12h00		+1 Catarina Ruivo, David Viana, Franklim Morais, Isabel Carvalho, Jorge Vaz	ScavaTools: Strategies and Tools for the Mass Dissemination of SCAVA Techniques
12h15		Discussion	
12h30		(moderator - Ricardo Resende)	
12h45	Lunch		
13h00			
13h15			
13h30	S3	Lx Leen Hiasat, Pedro Januário	Building Circulation from a Syntactic Context in Relation to Indoor Thermal Environment
13h45		Lx Luísa Almeida, Sara Eloy, Ana Almeida	What About if Buildings Respond to my Mood?
14h00		Lx Maria João Oliveira, Filipa Osório	Nature Pleated Surfaces
14h15		Lx Beatriz Couto, Sara Eloy	Borealis Sound an Interactive Wall for Situational Awareness: the Impact of Responsive Architecture on Users
14h30		Discussion	
14h45		(moderator - Rosália Guerreiro)	
15h00	Break		
15h15			
15h30	KN1-2	-5h Reinhard Goether	Compact City—Urban Sprawl – Sites & Services
15h45			Challenges in the COVID-19 Era
16h00			
16h15		-5h José Pinto Duarte	The Ethics of our Work
16h30			
16h45		Discussion	
17h00		(moderator - Sara Eloy and Isabel Carvalho)	
17h15			
17h30	Break		
17h45			
18h00	S4	Lx Sara Eloy, Micaela Raposo, Fábio Costa, Pieter Vermaas	Tools for the Co-designing of Housing Transformations: a Study on Interaction and Visualization Modes
18h15		+0? Wassim Jabi, Aikaterini Chatzivasileiadi	Topologic: Exploring Spatial Reasoning Through Geometry, Topology, and Semantics
18h30		-5? Pedro Veloso, Ramesh Krishnamurti	Self-learning Agents for Spatial Synthesis
18h45		-4 Ítalo Guedes, Max Andrade, Adriana Carvalho	BIM Based Airport Design Project Standardization (IFC) for Use of Code Checking
19h00		discussion (moderator - Maria João Oliveira)	
19h15			

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Local time	Authors	Title
KN3-4	+1 Maria Lopez	From Datascape to Formal Methods
	+0 Tanos Varoudis	Variational Beauty of Space. Machine Intuition and Urban Networks
	Discussion	
	(moderator - David Viana)	
Break		
S5	David Pereira-Martínez, Gisela Lameira, Plácido Lizancos, Isabel Raposo, Virgílio Borges Pereira	Non-intrusive Semi-automated Modelling of Ordinary Buildings' Intermediate Floors: Collective Housing in Porto, Portugal
Lx	Momen FoadMarashi, Francisco Serdoura	Public Space Use: an Approach to Liveability in Urmia Bazaar, Iran
Lx	Ricardo Correia, Rosália Guerreiro, Filipe Brandão	Data Driven Spatial Analysis of Urban Renewal. Network Kernel Density Estimation of Building Renovation
Lx	Carolina Coelho	Space, Adaptability and Use: Triangulating Research Criteria for Adaptability Retrieval
+0		
	Discussion	
	(moderator - Canan Colaço)	
Lunch		
KN5	Ramzi Hassan	
	Discussion (moderator - Joana Alves)	
Break		
S6	+1 Aniruddha Mukherjee	L'Objet Invalide
Lx	Canan Colaço, Zeynep Mennan	Upgrading Participation through Computational Thinking in Architecture
Lx	Silvia Spolaor, Vítor Oliveira	Urban Forms of Informality: Decoloniality as a Perspective for Morphological Studies
	+2? Egemen Berker Kizilcan	Collaboration of Visual Intelligence between Human and Machine Actors in Design Processes
	+2? Alexandros Peteinarelis, Nikolaos Patsavos	Digital Doxiadis: Parametric Thinking for Human Settlements
	Discussion	
	(moderator - Franklim Morais)	
Break		
S7	+1? Camilla Pezzica, Valerio Cutini, Clarice Bleil de Souza, Alessandro Santucci	Adapting Analysis Workflows to Humanitarian Needs: Different Road Network Models and Tools
+0	Olha Tikhonova	Understanding a Bastion Castle in Pidhirtsi Using the Space Patterns System for Spatial Analysis
+1? Chiara Chioni, Camilla Pezzica, Valerio Cutini, Clarice Bleil de Souza, Simone Rusci		Multi-scale Configurational Approach to the Design of Public Open Spaces After Urban Disasters
+0	Susannah Cramer-Greenbaum	Development impact: Applying network analysis to urban migration data
	Discussion	
	(moderator - Catarina Ruivo)	
	chairs	Closing Session
Closing		