

Thursday, 4th June 2020				
Room ALFA 302				
Conference Introduction				
Hour Interval	Author	Title	Assigned Time	Author Local Time
09:30 to 09:40	Alberto T. Estévez	Conference Chair Presentación BIODIG 2020	10 Minutes	09:30
09:40 to 10:00	Aldo Sollazzo	3D Printing & Digital Research (Noumena+GenArqOffice)	20 Minutes	09:40
10:00 to 10:20	Jose Pedro Sousa	Keynote Lecture 2002/2020 - Some Thoughts and Experiments on "The New Cybernetic-Digital Architectural Design"	20 Minutes	10:00
Session 1 - Paper Session				
10:20 to 10:30	Djordje Stojanovic	Building for Complexity: Insights into Growth, Self-organisation and Adjustment	10 Minutes	18:20
10:30 to 10:40	Alexandros Efstathiadis I. Symeonidou	High performance biological structures	10 Minutes	11:30
10:40 to 10:50	Dragos Brescan	Adapted & Adaptive – Energy Efficient Generative Design Through Informational Prototyping	10 Minutes	10:40
10:50 to 11:00	Angad Warang Alberto T. Estevez Pablo Baquero	Architecture of Computational Ecosystems – synthesizing design algorithms based on cellular automata	10 Minutes	10:50
11:00 to 11:10	Yomna K. Abdallah Alberto T. Estevez Neveen M. Khalil Mostafa M. Sobhy	Biased Random Walk as a Modeling Tool for Form and Function Integration in Bioactive Design	10 Minutes	11:00
11:10 to 11:20	Pablo Baquero Effimia Giannopoulou Alberto T. Estevez	A Unified Force Driven Design for Additive Manufacture Large Scale Structures using Particle Spring Systems	10 Minutes	11:10
Discussions and Break 11:20 - 11:40				
Hour Interval	Author	Title	Assigned Time	Author Local Time
11:40 to 12:00	Claudia Pasquero Marco Poletto	Keynote Lecture DeepGreen	20 Minutes	11:40
Session 2 - Paper Session				
12:00 to 12:10	Dilan Ozkan Beate Christgen Martyn Dade Robertson	Demonstrating a Material Making Process Through the Cultivation of Mycelium Growth	10 Minutes	11:00
12:10 to 12:20	Ghali Bouayad	Ornament in the age of digital architecture : three-dimensional translation of Japanese Katagami patterns into architectural elements and architectures through agent-based algorithms	10 Minutes	19:10
12:20 to 12:30	Christine Yogiama Christyasto P. Pambudi Kenneth J. Tracy	Cultivating Knitted Mycelium Composite Assembly	10 Minutes	18:20
12:30 to 12:40	David Kovarik Shota Tsikoliya David Kovarik	Granular Vibrations (self-organized form finding and behavioural processes of granular materials)	10 Minutes	12:30
12:40 to 12:50	Tarek El-Akkad	Bio-Organic Design – Sources of Inspiration from the Mediterranean	10 Minutes	12:40
12:50 to 13:00	Massena Gago. Ricardo	Biomorphological signature: Bio inspired design vs Bio design	10 Minutes	11:50
Discussions and Break 13:00 - 13:20				
Hour Interval	Author	Title	Assigned Time	Author Local Time
13:20 to 13:40	Alessio Erioli	Keynote Lecture Computation's dangerous idea	20 Minutes	13:20
Session 3 - Paper Session				
13:40 to 13:50	Eveline Nunes Possignolo Costa Jose Manoel Morales Sanchez	The relationship between architecture and engineering in the age of digital architecture	10 Minutes	07:40
13:50 to 14:00	Nelson Montás Laracuenta	PROGAMMABLE Biomimetics	10 Minutes	13:50
14:00 to 14:10	Justyna Morawska	Architecture Follows Nature (?): some reflections about the relationship inspiration – object	10 Minutes	14:00
14:10 to 14:20	Diogo P. Henriques	Towards shared urban visions	10 Minutes	13:10
14:20 to 14:30	Maria João de Oliveira Vasco Rato Carla Leitão	Bioshading System Design Methodology – PoC 1.0	10 Minutes	13:20
14:30 to 14:40	Guilherme Giantini Gabriela Celani	Wandering Column: a morphogenetic application on structural optimization by autonomous agents	10 Minutes	09:30
Discussions and Break 14:40 - 15:00				
Hour Interval	Author	Title	Assigned Time	Author Local Time
15:00 to 15:20	Aref Maksoud	Keynote Lecture	20 Minutes	15:00
Session 4 - Paper Session				
15:20 to 15:30	Tarciana Andrade José Beirão Amilton Arruda Rodrigo Araújo Theska Laila Soares	Overview of nastic movements in plants: a data collection for developing responsive facades	10 Minutes	14:20
15:30 to 15:40	Theska Laila Soares Amilton Arruda Jorge Lino Rodrigo Araújo Tarciana Andrade	Case Study on the Development of the BUGA Fibre Pavilion 2019: Analysis on Biomimetic Materials and Digital Fabrication Aspects	10 Minutes	10:30
15:40 to 15:50	Judith Urbano Alberto T. Estévez	La metamorfosis surrealista, profecía de arquitecturas genéticas	10 Minutes	15:40
15:50 to 16:00	Gabriel Fernández Borsot	Complexity theories as a foundation for a sustainable biodigital architecture	10 Minutes	15:50
16:00 to 16:10	Nadja Gaudillière	Evolutionary Tools and the Practice of Architecture : from Appropriated Typology to Becoming the Black Boxes of CAAD	10 Minutes	16:00
16:10 to 16:20	Viviana Hernaiz Pablo Cabrera	Pedagogical approaches for the exploration of new design technologies	10 Minutes	10:10
Discussions and Break 16:20 - 16:40				
Hour Interval	Author	Title	Assigned Time	Author Local Time
16:40 to 17:00	Gonçalo Castro Henriques	Keynote Lecture Network Design Exchange	20 Minutes	11:40
Session 5 - Paper Session				
17:00 to 17:10	Joel Ong	Variagated Crystalline Formation through AI-enhanced Genetic Modification of Ice Nucleating Bacteria	10 Minutes	11:00
17:10 to 17:20	Alberto T. Estevez Yomna K. Abdallah	Gaudí and the Apocalypse: biodigital bridge for the Sagrada Família in Barcelona	10 Minutes	17:10
17:20 to 17:30	Severi Virolainen	Pattern Continuities in Polygonal Tessellations	10 Minutes	18:20
17:30 to 17:40	Arne Riekstins	Research of Biodigital Parametric Tiling Patterns for Architecture : From Escher to Artificial Intelligence	10 Minutes	10:30
17:40 to 17:50	Mauro Costa Couceiro	Mixing Realities and Envisioning Learning (R) Evolutions	10 Minutes	16:40
Discussions and Break 17:50 - 18:00				
Hour Interval	Author	Title	Assigned Time	Author Local Time

18:00	to	18:20	Pablo Lorenzo-Eiroa	Keynote Lecture Towards a Biodigital City Through Big Data Evolutionary Simulation	20 Minutes	11:00
18:20	to	18:40	Daniela Frogheri	Keynote Lecture	20 Minutes	18:20