

10:20 - 11:20

A1, Room 16 **Shape Grammar**

chair: Andre Chaszar

1. *Shun Watanabe*

Minka, Machiya, and Gassho-Zukuri Procedural Generation of Japanese Traditional Houses [14]

2. *Ricardo Massena Gago*

Architectural Design Through Growth Geometrical Principles of Biological Structures [42]

3. *László Strommer*

3D Shape Grammar of Polyhedral Spires [72]

A2, Room 17 **Smart Cities**

chair: Pia Fricker

1. *Matthias Kulcke*

Connecting Online-Configurators (Including 3D Representations) with CAD-Systems Small Scale Solutions for SMEs in the Design-Product and Building Sector [60]

2. *Sabine Ritter De Paris, Carlos Nuno Lacerda Lopes*

Enhancing Housing Flexibility Through Collaboration [59]

3. *Szabolcs Kari*

BIM to GIS and GIS to BIM [45]

A3, Room 18 **Modeling with Scripting**

chair: Francesco De Luca

1. *Helen Lam Wai-yin, Vito Bertin*

De-Script-ion: Individuality / Uniformity [82]

2. *Bálint Péter Fűzes, Dezső Hegyi PhD*

Parametric Details of Membrane Constructions [47]

3. *Yan Gao*

Intelligent Making and Robotic Structure in Architectural Design Research [24]

11:20 - 11:40 Coffee break

11:40 - 13:00

B1, Room 16 **BIM**

chair: Alex Quintus

1. *Michio Matsubayashi, Shun Watanabe*

Forecasting Time between Problems of Building Components by Using BIM [37]

2. *Ingolf Sundfør, Harald Selvær*

Bim as a Transformer of Processes [90]

3. *Lei Xu*

Integration of Facility Management System and Building Information Modeling [50]

4. *Pedro Santiago*

Bim technology as teaching tool for sustainable construction [22]

B2, Room 17 **Smooth Transition**

chair: Emil Molnár

1. *Mohammed Mustafa Ezzat*

A General Theory for Finding the Lightest Manmade Structures Using Voronoi and Delaunay [23]

2. *Szilvia B.-S. Béla, Márta Szilvási-Nagy*

Changing Tangent and Curvature Data of B-splines via Knot Manipulation [15]

3. *Rodrigo Makert, Gilfranco Alves*

Between Designer and Design: Parametric Design and Prototyping Considerations on Gaudí's Sagrada Família [74]

B3, Room 18 **Media Supported Teaching**

chair: Martijn Stellingwerf

1. *Pia Fricker*

Developing New Computational Methodologies for Data Integrated Design for Landscape Architecture [68]

2. *Kateřina Nováková*

Ambient PET(b)ar [77]

3. *Verónica Paola Rossado Espinoza*

The importance of connectivism in architectural design learning: developing creative thinking. [70]

4. Lidija Pletenac

Geometric Modelling and Reconstruction of Surfaces [71]

13:00 - 14:00 Lunch break

14:00 - 15:20

C1, Room 16 **Collaborative design | Simulation**

chair: Gabriel Würzer

1. Andrei Smolik

Responsive interaction in dynamic envelopes with mesh tessellations [89]

2. Tamás Ther, István Sajtos

Horizontal load resistance of ruined walls case study of a Hungarian castle with the aid of laser scanning technology [39]

3. Michela Pascucci, Elena Lucchi

2D-Hygrothermal Simulation of Historical Solid Walls [40]

4. Moamen M. Seddik, Rabee M. Reffat and Shawkat L. Elkady

Identification of Required Processes and Data for Facilitating the Assessment of Resources Management Efficiency during Buildings Life Cycle [91]

C2, Room 17 **Generative Design - 1**

chair: Andre Chaszar

Res. Asst. Günsu Merin Abbas, Asst. Prof. Dr. İpek Gürsel

1. Dino

Visual Structuring for Generative Design Search Spaces [30]

2. Juan José Castellón González, Pierluigi D'Acunto

Stereotomic Models In Architecture A Generative Design Method To Integrate Spatial and Structural Parameters Through the Application of Subtractive Operations [28]

3. Biljana Jovic

Biomimetic Geometrical Approach to Generative Design [49]

15:20 - 15:40 Coffee break

15:40 - 17:00

D1, Room 16 **Visualization and Communication**

chair: Katerina Novakova

1. Benjamin Heinrich, Gabriel Wurzer

Towards the Measurement of Perceived Architectural Qualities [84]

2. Wolfgang E. Lorenz

Complexity across scales in the work of Le Corbusier Using box-counting as a method for analysing facades [85]

3. Andre Chaszar

Issues of control and command in digital design and architectural computation [75]

4. Dóra Surina, Gábor Bödő, Konstantinosz Hadzijanisz, Réka Lovas, Beatrix Szabó, Barnabás Vári, András Fehér

Integrating Point Clouds to Support Architectural Visualization and Communication [79]

D2, Room 17 **Generative Design - 2**

chair: Gabriel Würzer

1. Dr. Francesco De Luca

Solar Envelope Optimization Method for Complex Urban Environments [57]

2. Bálint Botzheim, Patricia Emy Kikunaga, Kitti Gidófalvy, András Szollár, András Reith

Performance-oriented Design Assisted by a Parametric Toolkit - Case study [66]

3. Réka Sárközi

Classification of Parametric Design Techniques [61]

4. Delia Dumitrescu

Time-based Matter: Suggesting New Formal Variables for Space Design [65]