Envisioning Architecture

SPACE / TIME / MEANING
ENVISIONING ARCHITECTURE: SPACE / TIME / MEANING

The Proceedings of the 13th Biennial International Conference of the European Architectural Envisioning Association at the Glasgow School of Art, 2017

Edited by
Tom Maver, Paul Chapman, Christopher Platt, Victor Portela and David Eaton

Cover Design by David Eaton (image by Olga Tarasova)

Published by the Mackintosh School of Architecture and the School of Simulation and Visualization at the Glasgow School of Art

Typeset by Freight Design (www.freightdesign.co.uk)

Contents

Preface ................................................................................................................................ 1

Keynote Speakers

Marcos Novak .................................................................................................................. 3
Lorraine Farrelly ................................................................................................................ 5
Daniel Pletinckx ............................................................................................................... 7

Sunlight, Eucalypts, and a Golden Bat:
Hardy Wilson and the Antipodean Capriccio ................................................................. 9
Yvette Putra

Community space spatial layout transition in typical Japanese nursing home ....... 18
Lin Bai, Satoshi Nasu

Sharing Sketches: Architectural Outreach Projects with Elementary Students ..... 24
Margaret McManus

Tracing the Past: Establishing Tolerances when Investigating
Medieval Vault Rib Geometries using Digital Tools ...................................................... 30
Nicholas Webb, Alexandrina Buchanan

Spatial-Visual (New) Indeterminacy in the Architectural Threshold ............... 38
Amos Bar-Eli

Analysis of Algorithmic Design Process –
Case Study of Agricultural City Project by Kisho Kurokawa ............................... 46
Maki Kasahara, Akihiro Mizutani, Kiwa Matsushita

Visual Communication in Architecture – When an Image Becomes Reality ......... 54
Antonio Nevescanin

Aero-Architecture “Visualizing to 2nd life of Commercial Airliners” –
Recommissioning, Reclaiming, Redesigning Commercial Airliners
into Resilient Spaces ............................................................................................................. 65
Harry A. Eggink RA

Embedded Things – an Inquiry into Beauty ................................................................. 73
Zuzanna Karczewska

The Intention behind the Spatial Representation
of F.L. Wright’s Wasmuth Portfolio ............................................................................... 80
Kiwa Matsushita, Hiroshi Tsumita
Site-Sense ................................................................. 88
Joanna Crotch, Isabel Deakin

Detour as Destination: An Architecture of Wandering ........................................ 96
Meliti Dikeos, Lora Kim, Ingrid Strong

Augmented Maquette for Urban Design ......................................................... 104
Barbara E. A. Piga, Valentina Petri

Visualization Principles for the Beginning Design Studio .............................. 114
Mark O’Bryan

Making Sense” – Meaning, Representation and Visualization in the Spaces of Cross–,Trans– and Interdisciplinarity ........................................ 121
Joern Langhorst

Interpretation, metaphor, and constraint as vehicles for communicating space, time, and meaning ...................................................... 132
Lohren Deeg, Sean Burns

Building Posture: Glasgow School of Art’s Driven Voids of Light and Body Dynamics ............................................................. 138
Ahmed K. Ali

A Form-Function-Use (FFU) model to simulate human behavior in built environments ................................................................. 146
Davide Schaumann, Yehuda E. Kalay, Seung Wan Hong

Taking a Hard Line: The Revealing Power of Functional Draughtsmanship ...... 154
Christopher Platt

Enhancing design representational environment to support design learning in the studios .......................................................... 163
Julie Milovanovic, Daniel Siret, Guillaume Moreau, Francis Miguet

Study of psychological evaluation and its relation to intervals “MAAI” in the external spatial composition of architecture .................................. 171
Masaru Harigai, Hiroshi Tsumita, Kazeno Tajika

Saleh Uddin

Filmmaking, a method for teaching urban design: Narrative, plot, characters, and action for urban spaces ......................................... 188
Michel Mounayar RA

Designing Socio-spatial Infrastructures with Time in Mind: Reimagining Istanbul Sali Pazari .......................................................... 196
Antonio Boeri, Burak Pak

Integrated Space: The Novel Design Research Experience ............................ 203
Diana Nicholas, Shivanthi Anandan
Understanding the meaning of architectural-urban heritage – review of approaches and methodologies?  Mateusz Pankiewicz

A step in the past, a look into the future: the poetic of black and white to decode Italian rationalist architecture  Paolo Sanza

360° vision, from panoramas to VR  Lescop Laurent

Creative Disruptions: Design Activity or Activism?  Zamila Karimi, Saleh Uddin

Sharing the experience of urban design schemes through immersive simulation  Barbara E.A. Piga, Eugenio Morello, Marco Boffi, Nicola Rainisio, Giovanni di Liberto

Form and Visualisation: Development, Implementation and Evaluation of an Integral, Foundational Imaging Study Program  Jack Breen

Architecture as Petrified Music – a Tectonic Definition  Filipe X. Oliveira

Cinematic approaches to mapping spatial narratives  Saul Golden

The Significance of Retaining Post-Military Barrack Complexes for the Sustainable Landscapes of Garrison Towns  Marta Rudnicka-Bogusz

The Virtual / Physical Equilibrium  Martijn Stellingwerff

Interpreting Visualisations  Cameron Purdie

Oppressed Bodies and Embodied Repressions – Mandatory Hijab and Facades in Contemporary Iran  Ehsan Sheikholharam

Toward Time-Like Oriented Approaches in Architectural Education  Negar Kalantar

Persuasive Sway of Rendering Media  Amy Huber

From Above the City  Derin İnan
Understanding and Developing Meaning in Design:
Abstraction and Meaning ................................................................. 333
*Thomas M. Lesko*

The Right Bike at The Right Time: a brand new (old) interface for VR ............... 339
*Michael Knight, Wolfgang Dokonal*

Attuning to Cultural Significance ............................................................ 347
*Salim Elwazani*

Narrative facades of Grainger Street: Design and manufacturing
of a physical model for participatory design ........................................... 355
*Danilo Di Mascio, Ruth Dalton*

Four-Dimensional Nature of Urban Structures –
Reflections upon Company Towns .......................................................... 363
*Bartosz Walczak*

(Re)creation of the Socio-Spatial Identity of a Postindustrial City ................. 371
*Anetta Kepczynska-Walczak*

Index of Authors .................................................................................. 381
Index of Authors

A
Ali, Ahmed K. 138
Anandan, Shivanthi 203

B
Bai, Lin 18
Bar-Eli, Amos 38
Boeri, Antonio 196
Boffi, Marco 244
Breen, Jack 252
Buchanan, Alexandrina 30
Burns, Sean 132

C
Crotch, Joanna 88

D
Dalton, Ruth 355
Deakin, Isabel 88
Deeg, Lohren 132
Dikeos, Meliti 96
Di Mascio, Danilo 355

E
Eggink, Harry A. 65
Elwazani, Salim 347

G
Golden, Saul 269

H
Harigai, Masaru 171
Hong, Seung Wan 146
Huber, Amy 315

I
İnan, Derin 325

K
Kalantar, Negar 310
Kalay, Yehuda E. 146
Karczewska, Zuzanna 73
Karimi, Zamila 234
Kasahara, Maki 46
Kepczynska-Walczak, Anetta 371
Kim, Lora 96

L
Langhorst, Joern 121
Laurent, Lescop 226
Lesko, Thomas M. 333
Liberto, Giovanni di 244

M
Matsushita, Kiwa 46, 80
McManus, Margaret 24
Miguet, Francis 163
Mlovanovic, Julie 163
Mizutani, Akihiro 46
Moreau, Guillaume 163
Mounayar, Michel 188

N
Nasu, Satoshi 18
Nevescanin, Antonio 54
Nicholas, Diana 203

O
O’Bryan, Mark 114
Oliveira, Filipe X. 260

P
Pak, Burak 196
Pankiewicz, Mateusz 210
Petri, Valentina 104
Piga, Barbara E. A. 104, 244
Platt, Christopher 154
This publication is the proceedings of all the papers accepted and presented at the 13th biennial International Conference of the European Architectural Envisioning Association. The conference – with the theme Envisioning Architecture: Space/Time/ Meaning – was held in the Glasgow School of Art in September 2017 and was organized by the Mackintosh School of Architecture and the School of Simulation and Visualization, with assistance from the City of Glasgow College. It coincided with an Exhibition of original drawings of Scotland’s other renowned architect Alexander “Greek” Thomson, hosted by The Lighthouse - the nation’s Centre for Architecture and Design.

The papers – in approximate equal numbers from Europe, North America and Japan, offer an eclectic representation of the variety of ways in which we envision architecture and its related disciplines, from analogue to digital. No attempt has been made to classify them – rather they are presented as they were received, to stimulate diversity, cross-reference, comparison and inspiration.

Enjoy the publication and look out for the 2019 Conference at eaeenet.wixsite.com/eaea.