

# **Representation in Architectural, Landscape and Urban Design**

## **Editors**

*Giulia Pellegrini, Clara Goncalves, Fatih Rifki and  
Jesus Lara*

Athens Institute for Education & Research  
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# Representation in Architectural, Landscape and Urban Design

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Papers selected from those presented at:

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and  
***Resilient Communities***  
Italian Pavilion at the 17th International Architecture Exhibition  
La Biennale di Venezia  
Venice, 30 May, 2021

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**Press Release**  
**ITALIAN PAVILION**  
**at the 17<sup>th</sup> International Architecture Exhibition – La Biennale di Venezia**  
**RESILIENT COMMUNITIES**  
**Curator: Alessandro Melis**

*The Italian Pavilion – comments the curator Alessandro Melis – will itself be a resilient community, consisting of 14 “sub-communities” understood as operating workshops, research centres or case studies in accordance with two essential lines: a reflection on the state of the art in the matter of urban resilience in Italy and the world through the showing of works by eminent Italian architects, and a focus on methodologies, innovation, and research with interdisciplinary experiments straddling the ground between architecture, botany, agronomy, biology, art, and medicine. Stephen Jay Gould and Elizabeth Vrba revolutionized taxonomy in biology by introducing the term “exaptation”: the non-deterministic mechanism of natural selection. Heuristically, the Italian Pavilion will promote architectural exaptation as a manifestation of diversity, variability, and redundancy, challenging deterministic aesthetic homogeneity in favour of the diversity of creative structures. Like the human brain and genome, the pavilion will be a jungle inhabited by strange creatures, in which to listen to the background noise that is already deafening and requires an adequate response, by resorting to new knowledge paradigms. In the vision provided by the curator of Biennale Architettura 2021 Hashim Sarkis, the Pavilion will emphasize the aspects of experience and immersiveness, privileging forms of expression linked to graphic novels and gaming in tones and modes inspired by cyberpunk culture, while relying on the contribution of undisputed masters in the sector, in order to be able to approach and hopefully increase the awareness of a young, broad public.*

## Preface

This book is a welcome addition to the list of publications in the Athens Institute of Education and Research's (ATINER'S) *Architecture Anthology* series. It is special in that it is a collection of selected, peer reviewed papers from two parallel conferences, one held in Venice in May 2021 and the other in Athens in June 2021. Topic of the conferences was representation in all its forms in architectural, landscape, and urban design. The collection of papers in this book comprise thoughtful research and contain prolific research material on the topic. Some of the papers, of course, discuss the traditional form of representation, drawing, as an expressive medium, how it is related to the visual arts, and how it can represent cultural heritage. Drawing is also examined as a multi-disciplinary approach to communication and in cartographic form in envisioning the landscape. Then other papers explore the use of modern digital techniques to represent landscape values and establish urban identities. Yet others examine visualization techniques to denote architectural and urban spaces. We hope the reader will find much in this book to reflect on and contribute to their own thinking about architectural, landscape, and urban design.

I should like to highly commend the initiative and efforts of Giulia Pellegrini in coordinating the presentations from the International Conference on Drawing held in Venice in May 2021 and those at the Annual International Conference on Urban Studies and Planning in Athens in June 2021, as well as leading a team of editors to select papers to be reviewed and to collected for this book. Thank you also to the co-editors Clara Goncalves, Fatih Rifki, and Jesus Lara. Very much appreciated is the work of the referees for without their volunteer efforts and time expended on reviewing papers the Athens Institute of Research and Education's *Architecture Anthology* series would not be possible.

The process of coordination and production of the volumes could not have been undertaken without the valuable assistance of Olga Gkounta, Researcher at ATINER.

Nicholas N. Patricios  
General Editor



## Introduction

The main theme of the Italian Pavilion "Resilient Communities" curated by Alessandro Melis, becomes an integral part of the VII International Conference on Drawing De-Sign Environment Landscape City as part of the 11th Annual International Conference on Urban Studies & Planning, 2021, Athens, Greece.

The Conference arises from the desire to share, compare, debate and disseminate research and thought that from Representation opens up to all disciplines that involve a certain responsibility of cultural approach, analysis, study, evaluation, project, design, color, of the "Human environment."

The theme of Representation and the scientific implications of all those disciplinary sectors that involve the environment we live, look at, imagine, design is addressed with a dedicated conference, presenting the following topics: Survey and Representation of Architecture and the Environment; Drawing for the Landscape, Designs for the Project: traces - visions and pre-visions; The margins, the signs of memory and the city in progress; Visual culture and communication: from idea to project; Architectural emergencies; Color and the environment; Perception and territorial identity; Landscape cultural iconographic heritage: art, literature and design implications; Signs and Drawings for Design; Advanced Representation.

The topics related to Drawing and Representation concern aspects of conceptual and design analysis, almost a predictive practice through a path that from analogue to digital tools proceeds to visualize the current and future of cities and environments.

I have always assimilated drawing to language, related to the communication of a project. If I reverse the analysis of this analogy, starting from language as a codification and distinctive act of the human species, which Noam Chomsky explains well in the phrase "language is the nuclear characteristic that makes us human," it helps us to describe the reality that it surrounds, defines a tribal belonging, and the same belonging can exclude or include, in fact it is through language that my identity is perceived. The drawings tell, explain our thinking and communicate a complex project "immediately" in a single representation.

Perception, understood as the personal acquisition of data and/or situations that affect the choices and attitudes that architects, designers and designers of ideas in general often do not correspond to the real and objective data.

PNRR and Agenda 2030 pursue fundamental objectives for the Resilient Community, which these contributions, selected from the many authors who participated in the Conference, place us in front of a transversal approach on drawing as a tool of objective awareness.

I thank the Institutions present at the conference, the Rector of the University of Genoa Prof. Federico Delfino, the Dean of the Polytechnic School Prof. Giorgio Roth, the Director of the Architecture and Design Department of Genoa, Prof. Niccolò Casiddu. The patronage of the Municipality of Genoa represented by Councilor Simonetta Cenci, the Italian Drawing Union represented by the President Prof. Francesca Fatta and the Vice President of ATINER Prof. Emeritus Nicholas N. Patricios. I especially thank Alessandro Melis for the invitation to the Italian Pavilion.

Giulia Pellegrini  
Editor





