

DE-SIGN ENVIRONMENT LANDSCAPE CITY

Scientific and Cultural Approach to Drawing
and Representation of Tangible and Intangible Heritage

Editors of the 11th Annual International Conference on Urban Studies & Planning, 2021, Athens, Greece.

Dr. Nicholas N. Patricios, Vice President of Strategic Planning & Analysis, ATINER and Professor & Dean Emeritus, School of Architecture, University of Miami, USA.

Editors

Dr. Clara Germana Gonçalves, Head, Architecture Unit, ATINER & Researcher, CITAD (Centro de Investigação em Território, Arquitectura e Design), Lusíada University and Invited Assistant Professor, Lisbon School of Architecture, University of Lisbon, Portugal.

Dr. Fatih Rifki, Academic Member, ATINER & Professor, Montana State University, USA.

Dr. Jesus J. Lara, Academic Member, ATINER & Associate Professor, The Ohio State University, USA.

Dr. Giulia Pellegrì, Vice Dean & Associate Professor, Architecture-Polytechnic School, University of Genoa, Italy.

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Adriana Ghersi, Polytechnic School of Genoa, DAD Department

Marco Giovine, University of Genoa, Department of Earth, Environmental and Life Sciences DISTAV

Clara Gonçalves, Università Lusíada (Portogallo)

Marina Jiménez Jiménez, Universidad de Valladolid, ETS Arquitectura

Jesus J. Lara, The Ohio State University

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Michela Scaglione, Polytechnic School of Genoa, DAD Department

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La collana vuole mettere a sistema le tematiche affrontate nel Convegno Internazionale De-sign Environment Landscape City, che si pone come occasione di confronto e dibattito multidisciplinare nell'ambito di ricerche e pensieri che dalla Rappresentazione si aprono a tutte le discipline che coinvolgono l'analisi, lo studio, la valutazione, il progetto, il design, il colore, dell' "Ambiente uomo". Il tema della rappresentazione e delle ricadute scientifiche di tutti quei settori disciplinari che coinvolgono l'ambiente che viviamo, guardiamo, immaginiamo, progettiamo viene affrontata presentando i seguenti topics: rilievo e rappresentazione dell'architettura e dell'ambiente; il disegno per il paesaggio; disegni per il progetto: tracce — visioni e pre-visioni; i margini, i segni della memoria e la città in progress; cultura visiva e comunicazione dall'idea al progetto; le emergenze architettoniche; il colore e l'ambiente; percezione e identità territoriale; patrimonio iconografico culturale paesaggistico: arte, letteratura e ricadute progettuali; segni e disegni per il design e rappresentazione avanzata.

Patronage

University of Genoa, ATINER, Municipality of Genoa, University of Valladolid, Liguria Region, Italian Union Drawing (UID), Resilient Communities



De- Sign Environment Landscape City
RESILIENT COMMUNITIES
Padiglione Italia
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Edited by

**GIULIA PELLEGRÌ
SARA ERICHE**

Contributions by

FABRIZIO AIMAR, VOINEA ALINA, MARTA ALONSO RODRÍGUEZ, RAQUEL ÁLVAREZ ARCE,
MOTU ANDREEA, GRETA ATTADEMO, ALESSANDRA AVELLA, XJESI BARUTI,
ALESSANDRO BERTIROTTI, LAURA BOFFI, ANDRONIRA BURDA, FRANCESCO BURLANDO,
PATRIZIA BURLANDO, SIMONA CALVAGNA, MARIA CANEPA, NICOLA VALENTINO CANESSA,
LEDA CAPPONI, ENRICO CARASSALE, SAVERIO CARILLO, DAVIDE CARLEO, CHIARA CENTANARO,
SUSANNA CERRI, GIOVANNI CIAMPI, LUIGI CORNIELLO, MASSIMO CORRADI, GRAZIAMARIA COZZOLINO,
DOMENICO CRISPINO, ANGELO DE CICCÒ, MARIA D'UONNO, DOMENICO D'UVA, FABIANA FORTE,
LAURA GAGGERO, GIOVANNI GALLI, NOELIA GALVÁN DESVAUX, MARTINA GARGIULO,
ADRIANA GHERSI, ANDREA GIACHETTA, GIAN ANDREA GIACOBONE, MARIO GIANNONI,
LORENZO GIORDANO, MARCO GIOVINE, SARA GRILLO, FABIANA GUERRIERO, SILVIA IMBESI,
PEDRO ANTONIO JANEIRO, CARLA LANGELLA, GENNARO PIO LENTO, VARTIC LEONARD,
CHRISTIANO LEPRATTI, ALESSANDRO LO FARO, MARIA MACCARRONE, ADRIANO MAGLIOCCO,
LUIGI MANDRACCIO, MICHELE MARCHI, SABINA MARTUSCIELLO, ALESSANDRO MELIS,
STEFANO MELLI, RICCARDO MIELE, ENZA MIGLIORE, GIUSEPPE MINCOLELLI, ENRICO MIRRA,
DANIELA MONTI, BEATRICE MORETTI, MASSIMO MUSIO SALE, FRANCESCA MUZZILLO,
EMANUELE NAVARRA, DANA OPINCARIU, PATRICIA OPINCARIU, DAVIDE PACIOTTI,
ALICE PALMIERI, LUCA PARODI, GIULIA PELLEGRÌ, ANGELA DENISE PERI, SILVIA PERICU,
KATIA PERINI, FILIPPO PETROCCHI, NICOLA PISACANE, FRANCO PURINI, DIEGO REPETTO,
ANDREA ROLANDO, GLORIA RUSSO, CETTINA SANTAGATI, AYLA SCHIAPPACASSE,
MICHELANGELO SCORPIO, MANUEL SCORTICHINI, CLAUDIA TACCHELLA, MARIALUISA TADDEI,
GIOVANNA TAGLIASCO, ADRIANA TREMATERRA, ELEONORA TRIVELLIN,
ANNAPOALA VACANTI, GIULIA ZAPPÀ, MARIO IVAN ZIGNEGO



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Preface

Giulia Pellegrì

Polytechnic School of the University of Genoa.
Advisory Board Resilient Communities, Italian Pavilion.
17th International Architecture Exhibition – La Biennale di Venezia.

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, De-signs 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 tool of objective awareness.

I thank the Authorities 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 PELLEGGRI

Press Release
ITALIAN PAVILION
at the 17th 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.

Good morning everyone, thanks for the invitation. It is a pleasure and an honour to be at the Italian Pavilion of the Venice Biennale. I would like to thank Professor Giulia Pellegrini, the Department of Architecture and Design and the Polytechnic School of the University of Genoa for having created this opportunity to discuss a theme that I consider fundamental, that of the resilient city, of the resilient community, which in fact places at the centre of a new relationship that will be formed in the near future, indeed in the imminent future between man and the planet. The pandemic we are currently experiencing is teaching us to place at the centre of policies, not only of the general direction of society but also of innovation, the fact that we must pursue sustainable development models. The relationship between research bodies, universities and cities is, I believe, fundamental for this paradigm shift, and we as the University of Genoa are working closely with the Genoa municipality to try to define paths that go in the direction of a better quality of city living in the definition of new spaces that can be experienced in different ways.

The challenges are many and the concept of the city is evolving towards the trend of the mega City, and the mega City is also evolving towards the model of the Strolling City. So the city that is not dense, that also inhabits the most natural spaces and creates opportunities for different work and living, is a challenge that can be addressed together and I believe that collaboration between universities and communities is at the very heart here of Goal 17 of the UN's 2030 Agenda for Sustainable Development. I also believe that the core theme being discussed today is precisely centred on Goal 11 cities and communities, which are also the basis of the new funding opportunities of the national recovery and resilience plan. I think that moments of confrontation like this can only facilitate and speed up this great transition process. I really thank everyone for the invitation and wish everyone a good day's work.

FEDERICO DELFINO
Rector University of Genoa

First, I would like to thank the organizers of the Biennale di Architettura for promoting this meeting. Special thanks go to Giulia Pellegrini, for taking on the role of scientific referent of this meeting, and to all the participants. I am sure it will be a motivating day. I already had the opportunity to visit the Biennale di Architettura 2021. I have to apologize; I am not an architect. So, I don't look at the Biennale with the eyes of an architect, but with the eyes of a researcher in the field of water and the environment.

I found a community that actively investigate and question the possible future. Which explores the resilience of the society and how we will be able to live together. It does so by combining resilience with development and sustainability in the widest sense of the terms. A community that seeks inspiration directly from the structures of nature. Re-starting from a know-how based on long-time adaptation and evolution.

Even if one could find contradictions, provocations, or simplifications.

The concept of Serendipity has been introduced in a previous speech. I think that we could easily talk about Raplexity. That is: rapid adaptation to complexity. Something we all must face in these days.

It is a great honor and a real pleasure for me to represent the Polytechnic School of the University of Genoa, today, at this event.

GIORGIO ROTH
*Dean Polytechnic School
of Engineering and Architecture,
University of Genoa*

In recent years, the concept of resilience has rapidly gained notable virality. The original meaning, which denotes the property of a material to resist shocks without breaking, has taken on various meanings over time up to the attribution of social and political-economic meanings. The widespread use of this term, which occurs following the upheavals caused by the extraordinary event of the Covid-19 pandemic and its countless consequences, is not surprising. Talking about resilience, today, means declaring a precise will to resist and react in the face of adversity, which passes through the definition of strategies aimed at adapting the individual and society to alterations of various kinds, allowing them to survive and evolve. The European Union, and consequently the Italian government, operates in this spirit through the National Recovery and Resilience Plan (PNRR), whose goal is to lead the country beyond the pandemic crisis, through a digital and ecological transition. The PNRR aims to establish a company capable of surviving the current crisis, managing and addressing it quickly and efficiently and seizing development opportunities, even in crisis situations. The Italian recovery plan, as well as those of the other member countries of the European Union, is based on the criteria outlined in July 2020 by the Next Generation EU (NGEU) initiative of the European Commission, which already on that occasion referred to the concept of resilience in the most comprehensive meaning of the term. The NGEU recovery package aims to assist smart and sustainable transformation through policies for the new generations. All these factors can be traced back to the concept of society 5.0 which is combined with what was introduced in 2015, when the United Nations General Assembly published the 17 Sustainable Development Goals (SDGs) for the 2020-2030 Agenda. This ideal was developed with great efficiency in Japan, where the Cabinet Office shared, a year later, the definition of Society 5.0 as the fifth evolutionary stage of human society: a revolutionary model compared to the previous ones for the centrality of people's well-being., obtained through the driving force of technological innovation. Exploiting the potential of frontier technologies in order to solve the needs of citizens would make it possible to make economic development a shared progress, implemented through a collaborative approach capable of involving all the potential players involved, considering their needs and specificities. Society 5.0 is therefore able to react to the main challenges of our time, be they of a social, climatic, health or economic nature. Among these, the definition of strategies to manage demographic aging, the management of public spending, the optimization of increasingly limited resources, the abatement of pollution, the reduction of social inequalities stand out. Achieving these goals requires channeling the technological potential towards pressing social needs, going beyond the sole objective of economic development. Big Data, through the development of skills and infrastructures aimed at their analysis, have the enormous potential of making our societies more adaptive and reactive – resilient – to phenomena that can be calculated and predicted with unprecedented precision. This opportunity is intrinsically linked to the development of IoT (Internet of Things) technologies, capable of acting as multiple sources for the production

of data. In managing this sea of information, Artificial Intelligence helps us which, through increasingly developed algorithms, processes huge masses of data and supports human decision-making processes in response to problems of great complexity. Finally, robotics and automation are closely linked to the progress of previous technologies and are already transforming various sectors of the world of work, with a view to improving the quality of life of people, relieving them from carrying out boring, tiring or dangerous tasks. It is clear that the evolution of society, and therefore of individual communities, in the terms defined up to now consists in the implementation of holistic management systems, which require a collaborative effort to be conceived and put into action. The three main definitions to which the society of the future will have to respond are outlined by the European Green Deal, which receives a third of the investments of the NGEU Recovery Plan and, in particular, by the creative and interdisciplinary initiative New European Bauhaus (NEB), which was born from the desire to make the EU Green Deal a cultural experience, tangible and shared by citizens with the aim of building a new future together. The NEB aims to establish a company:

- Stimulating, inspired by art and culture The NEB aims to establish a company;
- Stimulating, inspired by art and culture and responding to needs through functional tools;
- Sustainable, in harmony with nature, the environment and the planet;
- Inclusive, which encourages dialogue between ages, cultures and disciplines.

The new European Bauhaus focuses on this last aspect, in particular, which stands as a design laboratory aimed at constituting a creative and interdisciplinary movement to develop a meeting space in which to recover sustainable practices, enhance future visions and design lifestyles. This approach is based on the three main fulcrums identified in creativity, innovation and imagination, declined between design, culture and science. Although born above all in the architectural field, the NEB aims to expand its area of influence to all those areas of design capable of bringing benefits to communities of people, on the one hand by revisiting the important European cultural heritage and on the other by shaping a future that is co-created in an inclusive key.

For designers, the challenge becomes to think in an ecosystemic key, with the aim of creating innovative solutions, but equally to influence society to accept and implement more sustainable ways of living. The role of the designer assumes a new centrality and new imposing responsibilities, which can only be addressed through dialogue and the involvement of those who will be part of this future society. In this context, the interdisciplinary and humanistic approach of design and architecture reaffirms its importance as a link between human needs and technological progress. The contemporary challenge lies in the right mediation between these two factors, fundamental for the evolution of our society but necessarily subject to be rethought from a perspective of productive and ecological sustainability, which must be the background to all today's design efforts. In this sense, resilience is a fundamental property of the project, developed with a holistic approach and through the analysis and evaluation of its impact and its environmental, social and economic effects.

NICCOLÒ CASIDDU
Director
Architecture and Design Department
University of Genoa

I thank Prof. Giulia Pellegrini, scientific director of the De-Sign Environment Landscape City conference, and the Magnificent Rector prof. Federico Delfino, for the invitation and also Alessandro Melis, curator of the Venice Biennale 2021, for opening the doors of the Biennale to our city.

Our Genoa has always been a resilient city, but since 2018, with the fall of the Morandi bridge, it has necessarily had to become increasingly resilient, according to a new future vision.

The accelerated evolution, on a global and national scale, of socio-economic conditions and the particularity of the city of Genoa, require a profound reflection on what urban needs really are.

What our Genoa needs is much more than a change, a real process of metamorphosis that recovers the osmotic relations between the city and production reality, applying a rigorous building public maintenance program.

Genoa must and can regenerate itself, reactivating its territorial capital through a convergence of functions starting from the cultural and tourist ones up to the economic, environmental and social ones.

The main tool capable of implementing such a complex program is certainly that of Urban Planning, through the use of new paradigms and the quality of projects.

The Genoese community needs a sustainable city project, that is capable of creating intelligent ecosystems and new settlement models that can reduce urban pressure and contain the ecological footprint. But it is clear that all this must be able to support the recovery and the economic revival.

The Humus of Genoa is made up of urban settlements in surplus or overproduction, by urban complexes in mutation, by settlements in decommissioning and infrastructural networks in transformation: on this we must work by modifying, removing, re-inventing the functions by pursuing a generative perspective and increasing your creative resilience.

And it is precisely the point of re-inventing functions that becomes the crux of Genoa's innovative regeneration.

In 2020 the Municipality of Genoa approved an Urban Resilience Strategy, called "Genova LIGHTHOUSE – CITTA' FARO", a strategic vision document of the resilience of the city intended as a smart paradigm of urban transformation that will allow us to be prepared to face the challenges that the great trends of global change (climate, demographic, technological / digital) will reflect at the local level.

The Citizen Resilience Strategy provides as an implementation tool an Action Plan that focuses on the change of local legislation in support of territorial resilience, identifying new models of public-private partnership, ensuring that actions and interventions are sustainable and that monitor the results and related effects.