

Editorial

Mehmet Topçu (Editor in-Chief)

Journal of Design for Resilience in Architecture & Planning (DRArch) began its broadcast life with the excitement, enthusiasm and assertiveness with clear goals, emerging from need and a strong team with editorial experience in different journals. DRArch is a free, open access, scholarly international, e-journal considers original research articles, viewpoints, book reviews in peer-reviewed. DRArch provides a new forum to bring together existing design accumulation with futuristic approach to create better and happier built environment. DRArch aims to fill that gap. In other words, design for resilience is related with future. Resilient design and resilient city are deal with better living. DRArch is interested in designs and design methods the approach of foreseeing the future, long-term, sustainable, being able to synthesize technological developments with inspiration and aesthetics. We would like to thank everyone who contributed to the first issue of DRArch as author, reviewer, graphic designer by sharing their opinions, criticizing, and being brave to step forward.

DRArch is a multi-stakeholder independent organization with wide participation from different institutions and different countries gathered in the awareness of these sudden changes, the need for adaptation, the idea of unity and integration.

Due to the Covid-19 virus suddenly affecting the whole World expressed as a "pandemic" by the World Health Organization, we encountered a situation that changed our communication, shopping, socialization, healthcare, entertainment, worship, education, production and consumption relations in March 2020. A small virus we can't see proved that homo-sapiens are not as powerful and knowledgeable as they thought. We have faced the consequences of our selfish and domineering attitude that destroys animals, natural environment and others. We have seen that we have connections, relationships and interactions with each other in that we either noticed or not. We realized that the world is one. The paradigms of the current order in every field have changed rapidly. It was like a digital revolution.

Resilience means the capacity to recover quickly from difficulties with the ability of adaptation. The image on the cover of the first issue of the journal is "The Theodosius Cistern" one of many ancient cisterns of Constantinople that lie beneath the city of Istanbul, Turkey. This historical cistern built 1600 years ago, offers beautiful columns, brick domes and arches actually reflect the main idea of being resilience, durability to time. In this context Journal of Design for Resilience in Architecture and Planning (DRArch) is not only on the concept of resilience design mentioned in the literature, but also on the anticipation of future designs because in the rapidly changing and transforming modern world, it is of vital importance to be able to adapt to change, to develop innovative tools, to use technology for people and the environment, dealing with flexibility, durability, mobility, humanity. The future of urban societies would be probably built on this basis. Today, buildings and cities are under various pressure of the destructive forces of natural disasters and urban warfare such as extensive fires, storms, destructive earthquakes, floods, military conflicts. Architects, planners, landscape architectures, interior designers and industrial designers must gain competence in dealing within such crisis condition through great exposure of sudden changes -like COVID 19 we have been currently experiencing-, increased uncertainties and instabilities within the societal and economic and cultural systems.

The volume begins with Eman Albraifkanni and Kağan Günçe's study titled "Hybrid space as a conceptual framework for adaptation" which based on the possibility of investing the concept of hybrid to consider different dimensions of architectural adaptation. The power of this study comes

from the lack of interests in explaining the relationship between the hybridity theory and architectural adaptation. The authors suggest concepts that accommodate new patterns of adaptation to preserve more than one character within the original space and provide a comprehensive theoretical framework for adapting architecture to changing cultural and social requirements and desires.

The fascinating piece of work comes from Hasan Mutlu with the article titled “Optimization of multi objective land-use model with genetic algorithm” in which the author addresses planners’ main issue of effectively locating integrated land use types for various objectives. The author developed The Multi Objective Land Use Planning Model to maximize land value and minimize transportation by using a genetic algorithm method to find the optimum layout. The performance of the process tested with artificial data additionally, the usability of the model investigated in real issues that makes an innovative contribution to this issue.

Another interesting paper titled “Examination of vertical green systems in educational buildings: a field study in Çukurova University” comes from Ülkü Şimşek and Özlem Şenyiğit, in which they focus on vertical green systems in the context of sustainable design. In recent decades, there has been a significant growth in the amount of research on this topic. They argue that applying the systems in school structures help to impress the sustainability concept on the students. Moreover, it makes the systems more understandable since the youths have advanced experimental skills.

Kerem Yavuz Arslanlı is the author of the fourth article titled “Analysis of house prices: a hedonic model proposal for Istanbul metropolitan area”. The article based on the nature of housing price differences in Istanbul Metropolitan Area. The author investigates the factors that affect house prices in the city by Hedonic Regression Model with spatial variables such as house characteristics, neighborhood characteristics and transportation infrastructure.

Nevset Gul Canakcioglu’s paper “A discussion of child-friendly cities through a critique on the experience of the body” argues the role of making streets more pedestrian friendly to reduce the possibility of danger for children. The author’s argument marks how the urbanites, especially children, are affected by the rapid change of urban space in the context of environment and behavior theories. Woonerf and home zone global models used to explain how the city can regulate physical and social components that can contribute both to the socialization of adults and children’s development and freedom concerning their age and needs.

The article “Measuring the relationship between spatial configuration, diversity and user behavior: A Post Occupancy Evaluation study in Istanbul’s peripheral districts” by Ayse Ozbil Torun, Demet Yesiltepe, Sertac Erten, Ozlem Ozer, Tugce Gurleyen and Ezgi Zunbuloglu identifies the extent to which spatial configuration of public squares is related to users’ behavior namely modes/distances of access and level of satisfaction. They scrutinize four peripheral urban squares located in Istanbul, Turkey to apply the methodology includes a synthesis of three types of specialty, which are a behavioral mapping of urban squares (through the analysis of patterns of use based on direct observation), cognitive evaluation of spaces based on perceived factors (through user questionnaires), and quantifying urban public spaces objectively (through the methodology of space syntax and urban morphology).

The last work of the issue written by Serkan Bayraktaroğlu has the title “Bridging roles of social innovations in rural development: craft initiatives from Kutch, India”. The author focuses on two textile craft organizations from rural India to trace the linkage between social innovations and resilience. As a part of sustainable development, the study demonstrates the relationship between rural business, social innovations, and rural capital by applying the concepts of bridging organizations and rural capitals.

As the editör in-chief of this first issue DRArch, I would like to extend my deepest gratitude to Havva Alkan Bala and Ayşe Sema Kubat, co-editors of the DRArch Journal; and also, to İrem Kurtuluş, Abdulkadir Saday and Mojtaba Karimnezhad for their support throughout the publication process. I would also like to express my sincere gratitude to the following people for their efforts in helping me throughout the peer review process: A. Ahu Gülümser Akgün, Aslı Özçevik Bilen, Ayşe Sema Kubat, Burak Asiliskender, Burçin Yazgı, F. Duygu Saban, Havva Alkan Bala, Ozan Önder Özener, Ürün Biçer. I am also very thankful for the unique cover photo of Aslı Aydın for this firs issue of DRArch.

As it always has been, my last thanks go to all our readers for the support they provide to the Journal. We really look forward to your comments, contributions, suggestions, and criticisms.

Journal of Design for Resilience in Architecture & Planning will be more advanced and stronger with your support. Enjoy your reading and meet with us again in the next issue of the forthcoming year, 2021.

Best regards...



Cover photo: Image copyright © Aslı Aydın, İstanbul, 2020. The image on the left is "Şerefiye Cistern" in İstanbul which is known as "Constantinus or Theodosius Cistern" in the past, was built approximately 1600 years ago.
Cover and logo design: Mojtaba Karimnezhad

DRArch's objectives are:

- to question how future building technologies are revolutionizing architectural design, city planning, urban design, landscape design, industrial design, interior design and education,

- to catalyze the processes that lean on interdisciplinary and collaborative design thinking, creating a resilient thinking culture,

- to improve the quality of built environment through encouraging greater sharing of academicians, analysts and specialists to share their experience and answer for issues in various areas, which distributes top-level work,

- to discover role of the designers and design disciplines -architecture, city planning, urban design, landscape design, industrial design, interior design, education and art in creating building and urban resilience,

- to retrofit the existing urban fabric to produce resilience appears and to support making and using technology within the building arts,

- to discuss academic issue about the digital life and its built-up environments, internet of space, digital in architecture, digital data in design, digital fabrication, software development in architecture, photogrammetry software, information technology in architecture, Archi-Walks, virtual design, cyber space, experiences through simulations, 3D technology in design, robotic construction, digital fabrication, parametric design and architecture, Building Information Management (BIM), extraterrestrial architecture, , artificial intelligence (AI) systems, Energy efficiency in buildings, digitization of human, the digitization of the construction, manufacturing, collaborative design, design integration, the accessibility of mobile devices and sensors, augmented reality apps, and GPS, emerging materials, new constructions techniques,

-to express new technology in architecture and planning for parametric urban design, real estate development and design, parametric smart planning (PSP), more human-centered products, sustainable development, sustainable cities, smart cities, vertical cities, urban morphology, urban aesthetics and townscape, urban structure and form, urban transformation, local and regional identity, design control and guidance, property development, practice and implementation.

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