

## **Editorial**

*Mehmet Topçu (Editor in-Chief)*

We are honored to announce the publication of Volume 4, Issue 3 of the JOURNAL of DESIGN for RESILIENCE in ARCHITECTURE and PLANNING (DRArch) in the final days of the year 2023. As DRARCH welcomes 2024, it is publishing its first-ever review article for the first time.

This first review article is written by Seda Şimşek, İlker Erkan, Fadime Diker and Arzu Şahin. This review article titled as “Evaluation of interior space design criteria on the quality of urban environment: Literature review” focused on the proposition that the effectiveness of the function and quality of the space, spatial requirements have been determined, before and during the design process would increase the quality of the space.

While bidding farewell to 2023, the incredible development of artificial intelligence is of significant interest to the DRARCH team. Midjourney is an AI research lab with its own program and online platform that generates artwork from provided text. By using Midjourney, architectural designs can be turned into artistic works. Experts have found that most spatial designers have yet to try Midjourney and that the program has a significant impact on creative design principles like fluency, flexibility, elaboration, originality and freedom.

The article written by Kübra Müezzinoğlu, Serpil Akan, Halil Yasin Dilek and Yelda Güçlü, titled “An analysis of spatial designs produced through mid-journey in relation to creativity standards” provides the first comments on the subject.

The second research article titled as “Family photos and architectural representation: Using photo collage sketchbook to understand behavior patterns in family apartment buildings” comes from Seda Meral, Berrak Karaca Şalgamcıoğlu and Mehmet Emin Şalgamcıoğlu. This article presents a three-step process of collecting, deconstructing and reconstructing family photos in ethnographic research investigating the sociocultural aspects of behavior patterns in family apartment buildings. To synthesize ethnographic knowledge, research started with obtaining family photos. This photo collage sketchbook has helped us understand various aspects of the family apartment buildings related to architecture and culture. While doing this, the sketchbook prepared with visual contents combined with short notes represents the data collecting and organizing stages and analyzing, interpretation, knowledge-making, and presentation stages.

Another interesting paper deals with use of stone in architecture. Serkan Yaşar Erdiñ focused on the key features of stone. The paper titled as “A Timeless Journey of Strength and Beauty: The Potentials of the Use of Stone in Architecture” argues that stone's timeless qualities, durability and versatility make it an ideal material for contemporary architecture, particularly in achieving sustainability and aesthetic appeal.

The fascinating piece of work comes from Alaa Ababneh who is currently a Researcher at the Faculty of Archaeology UAB, Spain. The article titled “A Smart Urban Green spaces and Sustainable Cities: Smart urban management” aims to explore the concept and applications of smart urban green spaces within the context of sustainable cities. The paper delves into integrating advanced technologies, including the Internet of Things (IoT), sensor networks, and data analytics, to create smart urban green spaces that optimize resource efficiency and enhance maintenance and operations.

Mark Alegbe is a registered Architectural Technologist with the Nigerian Institute of Architects NIA, currently serving as a Principal Technologist at Auchu Polytechnic, Edo State, Nigeria. Gwaza Mtaver is an independent researcher with 14 years of industry experience in urban planning and development, environmental sustainability, and architectural design innovations. He holds an HND in Architectural Technology from Federal Polytechnic, Birnin Kebbi. Mark Alegbe and Gwaza Mtaver contributed to DRArch with the article “Climate resilience and energy performance of future buildings in Nigeria based on RCP 4.5 and 8.5 scenarios”. This study

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*\*DRArch journal has been indexed; DOAJ (Directory of Open Access Journals), TRDizin - TR Index (Tubitak, Ulakbim Türkiye), EBSCO, ICONDA®Bibliographic – The International CONstruction Database, EAAE (Architectural periodicals database), BASE (Bielefeld academic search engine), Dimensions (A comprehensive database), Google Scholar (Academic search engine), IdealOnline (Academic search engine), ERIHPlus, Open Archives (OAI-PMH registered data providers), Scilit (“scientific” and “literature” academic search engine), Worldcat-OCLC (The world's largest library catalog), ICI (Index Copernicus master journal list), OpenAIRE, Core - Collection of open (access research papers), Sherpa Romeo (Presents journal open-access policies), Norwegian Register (The Register for Scientific Journals, Series, and Publisher), EZB: Electronic Journals Library, URLICHSWEB(Global serials directory), Internet Archive Scholar, KOAR: Korea Open Access platform for Researchers.*

is about the impact of temperature change across the 36 state capitals in Nigeria, and the Federal Capital Territory, FCT, based on Representative Concentration Pathways, RCPs 4.5 for 2020 and 8.5 for 2090. A simple studio apartment with optimized alternatives for retrofits and new builds was simulated using EnergyPlus for both climate scenarios to determine the strategies for improving the energy performance of future buildings.

Özge Özkuvancı and Alessandro Camiz made research about “The Rebasification of the Roman Theatre in Mediaeval Zaragoza”. Within the scope of the study, the typological plan of the city was prepared using the building surveys taken in 1911, and the plan was interpreted as a historical organism.

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The article titled as “Observing Patterns for the Urban Fabric as a Place-Shaping Continuum on the Waterfront of the Haliç Area, İstanbul” written by Mehmet Aytekin Saygılı and Elmira Ayşe Gür. The research focuses on the examination of the placemaking activities in a situation where there is no urban fabric, by referring to the help of control variables together with semi-structured interviews with academic members of İstanbul Technical University and investigates the existence of the urban fabric as a place shaping continuum in the Halic area.

The last research is prepared by Emrah Şikoğlu. The title of the article is “Fractal and geography: Fractal scanning in three different urban areas of Elazığ”. The most basic method used in the study is the Fractal Analysis method. In order to make a relevant evaluation, Fractalyse 3.0 program was used. Two bases were created for the urban spots to be used in the program. While one of these bases is the parcels of Elazığ city center, the other one is buildings. In order to measure the parts of the whole mentioned as one of the aims of the study, three different regions of the city were identified and fractal analyzes were carried out separately for those regions.

We believe in the strong relationship between the concept of resilience, characterized by the swift recovery from challenges through adaptive capacities, is at the heart of our exploration. DRArch goes beyond the traditional boundaries of resilience design, delving into the uncharted territories of future design in our ever-evolving world. DRArch stands at the forefront of innovation and foresight in the realm of design. As we navigate the complexities of the modern world, our commitment to anticipating the future, embracing sustainability, and integrating technological advancements with inspiration and aesthetics remains unwavering. DRArch serves as a catalyst for collaboration, providing a dynamic forum that bridges existing design knowledge with a futuristic approach. In essence, DRArch is not just a journal; it is a testament to our collective vision for a resilient, sustainable, and inspiring future. Join us on this transformative journey as we continue to shape the narrative of design for resilience, pushing boundaries and fostering a community of building a brighter tomorrow. I would like to extend my deepest gratitude to all participants and all our readers for the support they provide to the Journal. And I would like to a special thanks to the referees. We look forward to your comments, contributions, suggestions, and criticisms.

Best regards...

Following names that provided valuable contribution as referees of articles in this issue are:

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\*sorted by last name



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## **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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