

Editorial

Mehmet Topçu (Editor)

The Journal of Design for Resilience in Architecture & Planning (DRArch) is proud to publish Volume 6, Issue 1, featuring articles of high scientific quality.

Page | i

Staying true to our mission of fostering innovative, interdisciplinary, and resilient approaches to design and urban planning, this issue brings together a collection of scholarly articles that explore the dynamic intersections of architecture, resilience, urban transformation, and cultural continuity. Each contribution offers a critical reflection on the challenges and opportunities shaping our built environment today.

The issue opens with the article **"A Comparative Analysis of Space Efficiency in Skyscrapers: Case Studies from the Middle East, Asia, and North America"** by Özlem Nur Aslantamer and Hüseyin Emre Ilgin. This study offers a systematic review of spatial efficiency in supertall buildings across different regions, revealing significant regional differences and providing valuable insights for optimizing vertical design strategies.

The second paper, titled **"Silo Buildings: A New Image in the Urban Landscape"** by Zeynep Kerem Öztürk and Ahmet Kurnaz, focuses on silo buildings traditionally used for storing bulk commodities such as grain, cement, and seeds. Structural additions and interior reconfigurations were critical in helping these structures comply with modern building standards and accommodate new functions, including offices, residences, and cultural venues. The findings highlight how carefully balanced preservation and innovation can conserve industrial authenticity while meeting contemporary urban needs. Moreover, preserving a silo's cylindrical core while introducing modern features fosters a sense of continuity between past and present, reinforcing communal memory. Ultimately, the case studies underscore adaptive reuse as a practical, culturally sensitive pathway for reimagining silo buildings—merging historical significance, architectural creativity, and sustainable development to produce dynamic new landmarks in evolving urban landscapes.

In **"Earthquake Resilience of Densely Populated Settlements: A Strategic Approach to Mitigate Istanbul's Earthquake Risk,"** Gülru Koca conducts a SWOT analysis of Istanbul's urban resilience. This paper emphasizes the urgent need for strategic urban planning to protect one of the world's most historically significant cities from the devastating effects of seismic activity.

An insightful contribution comes from Mümine Selen Abbasoğlu and Fatma Bildir with the article **"Assessment of Resilience in Rural Areas: The Case of Bağlıköy, Cyprus"**. The research focuses on the cultural, economic, environmental, and social factors influencing rural resilience. It hypothesizes that the resilience of rural areas is significantly influenced by vulnerabilities resulting from regional transformations and both natural and artificial impacts. Bağlıköy village was selected as a case study to examine this hypothesis. A SWOT analysis identifies internal strengths and weaknesses, as well as external opportunities and threats affecting the area's ability to withstand and recover from challenges. In conclusion, the study evaluates rural resilience and provides recommendations to enhance sustainability and adaptive capacity.

The theme of resilience continues with **"The Importance of Water-Sensitive Planning and Design Approaches for Resilience to Flood Disaster Risk in Istanbul"** authored by Hale Mamunlu Kocabaş. By focusing on the Çatalca and Beykoz districts, this study critiques current practices and advocates for holistic, basin-scale, participatory strategies to enhance flood resilience.

Urban environmental challenges are also addressed in the study **"The CODASC Database for Analyzing the Impact of Morpho-Climatic Characteristics of Canyon Streets on Air Pollutant Concentrations"** by Loubna Khellaf, Meriem Naimi Ait-Aoudia, and Farid Rahal. Focusing on the city of Algiers, the study explains how urban canyon characteristics affect pollutant concentrations and offers strategic recommendations for pollution mitigation, providing valuable guidance for sustainable urban planning.

Turning to architectural heritage, **"A Traditional Trace in the Urban Fabric: Architectural Analysis of the Maltepe Mosque"** by Necdet Bekirhan Soy and Murat Karademir critically evaluates contemporary mosque design, balancing tradition with modern urban needs and proposing ideas for the future evolution of mosque architecture in Turkey.

In "The Effects of Western Housing Practices on Turkey's Social Housing Experience" Fatema Alhashemi and Mehmet Saner examine the influence of Western housing models on Turkey's social housing policies, highlighting both the opportunities and challenges arising from this cultural adaptation.

Anday Türkmen contributes with the article "Analysing Morphogenetic Design Approaches in the Context of Hypothetical Housing Examples" This study adopts a qualitative research methodology, employing a comprehensive literature review to address the research questions. The research sample consists of four hypothetical housing projects: Embryological House, Multistory Apartment Building, Molecular Engineered House, and The Fab Tree Hab. These projects, developed after 2000, exemplify the application of morphogenetic design approaches in contemporary housing design.

Finally, Kamil Güley and Nisan Akalın explore educational innovations in "Conflict of Virtual and Reality in Interior Design Studio: Assessment of Student Success Rates" Their research highlights the benefits of hybrid educational models, offering important insights for the future of interior architecture education.

As DRArch continues to provide a platform for critical discourse and research, this issue underscores the importance of resilience, adaptability, and innovation in the face of increasingly complex urban and environmental challenges.

We invite readers to engage with these studies, reflect upon their implications, and contribute to the ongoing dialogue shaping the future of resilient design and planning.

We extend our sincere thanks to all contributors for their outstanding work and dedication, and we hope this volume inspires further research, collaboration, and action across our shared fields.

Best regards...

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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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Table of Contents

Research Articles	Pages
Editorial and Contents	i-v
A comparative analysis of space efficiency in skyscrapers: Case studies from the Middle East, Asia, and North America Özlem Nur Aslantamer, Hüseyin Emre Ilgın	01-19
Silo buildings: A new image in the urban landscape Zeynep Kerem Öztürk, Ahmet Kurnaz	20-39
Earthquake resilience of densely populated settlements: A strategic approach to mitigate Istanbul's earthquake risk Gülru Koca	40-56
Assessment of resilience in rural areas: The case of Bağlıköy, Cyprus Mümüne Selen Abbasoğlu, Fatma Bildir	57-70
The importance of water-sensitive planning and design approaches for resilience to flood disaster risk in Istanbul: Evaluation of examples in Çatalca and Beykoz districts Hale Mamunlu Kocabaş	71-101
CODASC database for analyzing the impact of morpho-climatic characteristics of canyon streets on the concentration of air pollutants Loubna Khellaf, Meriem Naimi Ait-Aoudia, Farid Rahal	102-123
A traditional trace in the urban fabric: Architectural analysis of the Maltepe Mosque Necdet Bekirhan Soy, Murat Karademir	124-142
The effects of western housing practices on Turkey's social housing experience Fatema Alhashemi, Mehmet Saner	143-162
Analysing morphogenetic design approaches in the context of hypothetical housing examples Anday Türkmen	163-181
Conflict of virtual and reality in interior design studio: Assessment of student success rates Kamil Güley, Nisan Akalın	182-192