



11<sup>TH</sup> INTERNATIONAL CONFERENCE AND EXHIBITION  
DECEMBER 2023, BELGRADE, SERBIA

11<sup>TH</sup> INTERNATIONAL EXHIBITION

ON ARCHITECTURE - CHALLENGES IN DESIGN

EXHIBITION BOOK

ON ARCHITECTURE -

# CHALLENGES IN DESIGN

EXHIBITION  
BOOK

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SUSTAINABLE URBAN SOCIETY ASSOCIATION

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ON ARCHITECTURE  
— CHALLENGES IN DESIGN

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Belgrade, Serbia  
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## IMPRESSUM

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ON ARCHITECTURE  
— CHALLENGES IN DESIGN  
EXHIBITION BOOK

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## PREFACE

At the beginning of the 21<sup>st</sup> century, faced with the challenges of climate change, depletion of resources, high environmental pollution, and hints at an uncertain future, we are questioning the various roles of architecture.

Whether technological development and the use of new concepts in design, the use of new materials in construction, the use of new tools in the creation of concepts can provide an answer, is the theme of the conference and exhibition "Challenges in Design".

The new concept of architectural objects and the use of materials in the isolation of objects and the concept of facade envelope are an inspiration and a challenge in creation. Is art a part or is it against the concept of an architectural work – art vs architecture. Whether architecture and new media and the use of virtual and augmented reality can be tools in architectural design is the question of the position of architecture in the digital era – from parametric design to VR and AI, as tools in design. In addition to new buildings in the transformation of the city and the change in the structure of activities, there are many huge abandoned industrial buildings, which refers to the topic of reconstruction – reworking of the city and architecture – reworking of architecture and the city – reuse of abandoned buildings and places.

That is why it is particularly interesting how cities will be organized in future development, how to improve the quality of work and life, and how architecture can help through the organization of space, materialization. In particular, the further improvement of information technology, which have made an outstanding contribution, enabling the holding of study programs in the faculties, as well as the holding of conferences and meetings.

# DESIGN CHALLENGES MACRO AND MICRO SCALE

- Challenges in Architecture, Urban Design and Art
- Modeling the Future – modeling of the future architecture and design with implications for environment and society,
- Living architecture

- Urban Design Projects – small scale design thinking and town planning as an inspiration for integrative planning,
- Showcase Presentations – new idea or project realization in Architecture, Urban Design or Art

Milena Kordić

**LIFE ON THE SUNNY SIDE OF THE STREET: ADAPTATION AND RECONSTRUCTION OF THE APARTMENT IN DOBRAČINA STREET, BELGRADE**

The city center apartment initially faced challenges with its layout, exposing the living area to noise and pollution from Cara Dušana Street. To improve functionality, the interior was restructured. The living area now enjoys a tranquil, sunlit courtyard view, while a corridor separates the bedrooms and bathroom. This redesign transformed the apartment into a more inviting space. Warm and natural materials were chosen to complement the surroundings, including a green wall in the courtyard and the vibrant morning sun. This thoughtful reconfiguration optimized space and created a harmonious living environment in Dorćol's housing blocks.



Dejan Todorović, Milena Kordić

**THE EMERGENCE OF WHOLENESS: SMALL DOWNTOWN APARTMENT**

Living in a 40 square meters apartment at Vračar in the heart of the city offers a unique urban experience. The aim was to create a cohesive living space for a young couple in this vibrant center. Micro-units were interconnected and harmonized to maintain autonomy while fostering synergy. This merging of micro-units forms a singular and distinctive space. Reducing vertical elements by 50 cm from the ceiling unifies the apartment, creating a sense of belonging. Just as the apartment transformed, downtown living encourages community engagement and connections with the urban surroundings.



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**LIFE ON THE SUNNY SIDE OF THE STREET:**

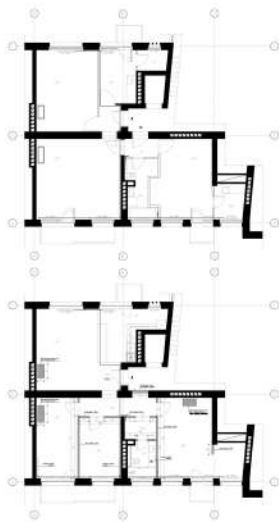
*Adaptation and reconstruction of the apartment in Dobračina Street, Belgrade*

The initial arrangement of this capacious city center apartment, which positioned the living area towards the noisy and polluted Cara Dušana Street in Belgrade, posed challenges for both daytime and nighttime activities. This was due to the overlapping paths between the kitchen and living room, and paths between the two bedrooms and the bathroom. The bedrooms, in their existing state, proved overly spacious for mere sleeping while lacking adequate proportion for additional functionality.

To address these issues, a strategy involving cuts and recomposition of the interior fabric was implemented. The living area was reoriented toward a tranquil, sunlit inner courtyard facing south. A residential corridor neatly separated the night area from the entrance hall, connecting the master bedroom, two children's rooms with access to a spacious terrace, and a shared bathroom. This redesign transformed the apartment's atmosphere. The sunlit living area now served as the hub for daily routines, encouraging communal time. Residents retreated to their private spaces solely for sleep and hygiene.

Material choices were influenced by the warm, natural tones of the surroundings, the vibrant greenery of a towering 15-meter-high green wall in the inner courtyard, and the bright yellow hues of the morning and midday sun. This thoughtful reconfiguration brought harmony to the apartment, optimizing space and orienting everyday routines towards the interiority of Dorćol's housing blocks.

PhD Milena Kordić, architect



Inherited floor plan

Floor plan after the intervention

