



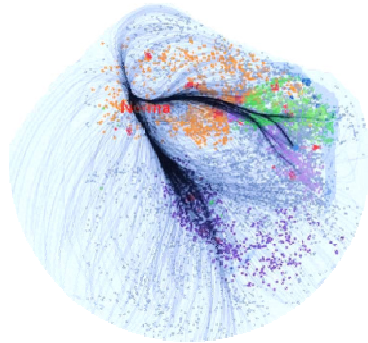
Balkan Architectural Biennale

INTERNATIONAL CONFERENCE:

**“BALKAN PATTERNS IN URBANISM AND ARCHITECTURE: CHALLENGES”**

19-22.12.2017. Belgrade

BOOK OF ABSTRACTS



Faculty of Architecture in Belgrade

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## INTRODUCTION:

International conference „BALKAN PATTERNS in Urbanism and Architecture: Challenges“ seeks to enlighten various processes on Balkan territory that are related to urban development, urban planning, urban design and Architecture in whole, putting emphasis both on inner and outer crosscutting influences in theory and practice that are reflected in city and regional development in Balkan and region. The conference brings together theorist, academics, researchers, professionals, practitioners and city developers to discuss future patterns and paths of urban and architectural development based on its historical development and wider integrative regional and global processes. Therefore, the conference is an communicative arena between BABs 2017 exhibition and investment fair as well as a dialogue between academia and profession bringing together theory and practice to work together towards future patterns in urbanism and architecture. The conference has both scientific and professional character in order to bind these areas and enforce their mutual relations.

### THE SPECIAL TOPICS OF THE CONFERENCE ARE:

- Architectural patterns: novelties and tradition
- Urban planning patterns: what planning do we need?
- Resilience, urban planning & design: issues to be addressed
- Urban design patterns: issues of designing
- Urban and architectural heritage patterns: where tradition meets future
- Urban transformations and transitions in the Balkans
- Energy efficiency refurbishment of public buildings —EmBuild project

dr Tatjana Mrdenović, grad.eng.of Arch.  
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# PRESERVATION OF AUTHENTIC EXPRESION OF PREFABRICATED CONCRETE FACADES - CASE STUDY: RESIDENTAL BUILDING IN BLOCK 29, NEW BELGRADE

Nikola Macut<sup>79</sup>, Ana Radivojević<sup>80</sup>

Concrete and brick were typical materials of building fabric of multifamily residential buildings from Belgrade, from the 1960s until the 1980s. This was the period of intensive building construction, supported and financed by the state, when new parts of the Belgrade were erected, and New Belgrade was one of such new residential settlements. High intensity of construction that was typical for the period in question was followed by the application of various prefabricated construction systems that offered possibilities of creating diverse design solutions.

Nowadays efforts to improve the quality of existing residential buildings through the implementation of energy rehabilitation measures, raises the question of the need for preservation of original appearance. When such need exists, usual energy renovation measures such as addition of external thermal insulation and finishing layers are not considered appropriate. Therefore, such buildings seek for other type of intervention on the existing building fabric.

Having this in mind, this paper presents a case study of one of the residential buildings from the Block 29 in New Belgrade, designed by the Serbian architects Milosav Mitić and Mihailo Čanak during the 1960s. Thanks to its architectural values, today this block has the status of previous protection. Three main types of materialisation prevail on the building's façade planes: concrete prefabricated elements with ceramic tiles as finishing, elements with exposed concrete and bricks applied on the walls. Today this building is approximately 50 years old, so the prefabricated facade elements are not in good condition and needs to be repaired, but the building as a whole also needs to be energy renovated. Taking it all into account, problems and potential solutions of energy renovation and repair of prefabricated concrete facades that preserve their original appearance are examined on the example of the selected residential building.

*key words: residential blocks, prefabricated concrete facades, authenticity, energy rehabilitation measures*

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