



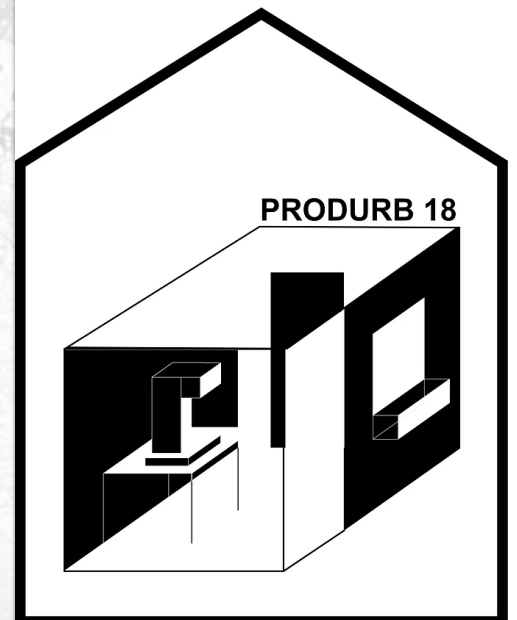
1st International Conference on
PRODUCTION IN URBAN ENVIRONMENTS
 17th-19th October 2018, Belgrade, Serbia

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1st International Conference on PRODUCTION IN URBAN ENVIRONMENTS

Belgrade, Serbia

17th to 19th October 2018



Welcome

The Organising Committee is pleased to announce the 1st International Conference on Production in Urban Environments, to be held from 17th to 19th October 2018, at the Faculty of Architecture of the University of Belgrade, Serbia.

The Organising Committee has the great honour to invite you to attend the 1st International Conference on Production in Urban Environments.

The Organising Committee looks forward to welcome you to the 1st International Conference on Production in Urban Environments in Belgrade!



Prof. Goran D. Putnik
 Chairman of the
 Organising Committee



Prof. Vladan Đokić
 Chairman of the
 Organising Committee



Prof. Jovan Filipović
 Chairman of the
 Organising Committee



Asst. Prof. Danilo Furundžić
 Chairman of the
 Organising Committee

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Programme

Programme of the conference consists of two days of lectures, round tables and special keynotes, and on the last day field visit is organised - Urban production in vivo on the example of the city of Kikinda.

First day of the conference – Wednesday 17.10.2018

10:00 Welcome address

Prof. Vladan Djokic, Dean of Faculty of Architecture University of Belgrade
 Prof. Goran Putnik, University of Minho (Portugal)
 Asst. Prof. Danilo Furundzic, Faculty of Architecture University of Belgrade

10:15 Keynote lectures

WHY PRODUCTION IN URBAN ENVIROMENTS? AND PRODUCTION IN URBAN ENVIRONMENT CONTINUUM.
 Prof. Goran Putnik, University of Minho (Portugal)

SCHOOL OF ARCHITECTURE, UNIVERSITY OF MINHO, GUIMARÃES
 Cidália F. Silva, School of Architecture of Minho's University

11:00 Lectures

AN INTEGRATED FRAMEWORK FOR SUSTAINABLE URBAN PRODUCTION Combining the city and factory perspective
 Max Juraschek, Olaf Mumm, Sebastian Thiede, Vanessa Carlow, Christoph Herrmann
 Technische Universität Braunschweig, Germany

CITY PRODUCTION PARADIGMS Historical Overview
 Irena Kuletin Čulafić, Danilo S. Furundžić, Vladimir Parežanin
 Faculty of Architecture University of Belgrade

11:45 Coffee break

12:20 Lectures

MESSY SCALES: PRACTICES OF MAKING IN VALE DO AVE
 Cidália F. Silva¹, Fernando P. Ferreira²
 1 School of Architecture of Minho's University, Portugal
 2 Lab2PT, School of Architecture of Minho's University, Portugal

AN INNOVATIVE WOOD WORKING CENTRE FOR URBAN PRODUCTION OF GREEN AND PERSONALIZED FURNITURE

Emanuele Carpanzano¹, Paolo Pedrazzoli¹, Andrea Barni¹, Antonio Caressa², Federico Ratti², Mauro Mazzolini³, Franco Cavadini³
 1 University of Applied Sciences and Arts of Southern Switzerland (SUPSI), Switzerland
 2 SCM group, Switzerland
 3 SYNESIS, Italy

NETWORKED URBAN HOUSING WITH SELF-MANAGED PRODUCTION Case of Eco Green Village (MILD Home) in Belgrade

Pavle Stamenović, Dusan Stojanovic
 Faculty of Architecture University of Belgrade

OPEN SOURCE PRODUCTS AND SUSTAINABLE URBAN FORMS: AN APPROACH TOWARDS NEO-INDUSTRIALISATION 2.0

Hélio Castro^{1*}, Goran Putnik², Luís Ferreira³, Paulo Ávila¹, Manuela Cunha³, Cátia Alves⁴
 1 ISEP, Polytechnic Institute of Porto, Portugal
 2 University of Minho, Portugal
 3 Polytechnic Institute of Cavado and Ave, Portugal
 4 Research Centre ALGORITMI, University of Minho, Portugal

INTEGRATIVE APPROACH TO PRODUCTIVE URBAN LANDSCAPES: THE CASE OF PORTO CITY

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SMART CITY GOVERNANCE IN THE CONTEXT OF URBAN PRODUCTION

Vaibhav Shah¹, Goran Putnik²
 1 United Nations University – E-Governance (UNU-EGOV), Portugal
 2 University of Minho, Portugal

14:15 Catering lunch

15:30 ROUND TABLE – Urban Production & Industry 4.0

Second day of the conference – Thursday 18.10.2018.

10:00 Lectures

APPLICATION OF AUGMENTED REALITY IN MANAGEMENT AND PRODUCTION IN COMPLEX URBAN ENVIRONMENT

Zorica Dodevska¹, Jovan Filipović²
 1 Research and Development Institute Lola Ltd., Serbia
 2 Faculty of Organizational Sciences, University of Belgrade, Serbia

PRODUCTION IN URBAN ENVIRONMENT: SOME CHALLENGES FOR SERVICES INTEGRATION

Luís Ferreira¹, Nuno Lopes¹, Goran Putnik², Leonilde Varela²
 1 Polytechnic Institute of Cavado and Ave, Portugal
 2 University of Minho, Portugal

HOW INCREASE OF URBAN PRODUCTION NETWORK SIZE AFFECTS PRODUCTION SCHEDULING RESULTS

Cátia Alves¹, Goran Putnik²
 1 Research Centre ALGORITMI, University of Minho, Portugal
 2 University of Minho, Portugal

SPATIAL PREFERENCES OF COGNITIVE-CULTURAL ECONOMY CLUSTERS IN EUROPEAN CITIES

Exploration of spatial preferences of two fields of cognitive-cultural economy
 Sanja Simeunovic Radulovic, Danilo Furundzic, Vladan Djokic
 Faculty of Architecture University of Belgrade

URBAN DISSIPATIVE STRUCTURE AS COMPLEX ORGANIZATION

Pedro Pinheiro¹, Goran Putnik²
 1 Research Centre ALGORITMI, University of Minho, Portugal
 2 University of Minho, Portugal

11:45 Coffee break

12:20 Lectures

HOW DO INTERNATIONAL STANDARDS SUPPORT THE DEVELOPMENT OF SUSTAINABLE AND SMART CITIES?

Jelena Ruso, Jovan Filipović
 Faculty of Organizational Sciences, University of Belgrade, Serbia

A CONCEPTUAL MODEL OF REQUIREMENTS FOR HYBRID BUILDING PROJECTS BASED ON TQM, CRPM AND VE

Bruna Thompson¹, Leonilde Varela², Reston Filho³
 1 IDAAM, Brasil, Research Centre ALGORITMI, University of Minho, Portugal
 2 University of Minho, Portugal
 3 IDAAM, Brasil

13:00 ROUND TABLE – Education on Urban Production

14:00 Catering lunch

15:15 Closing session

15:30 Meeting of Deans

Third day of the conference– Friday 19.10.2018.

Field visit - URBAN PRODUCTION IN VIVO - The example of the city of Kikinda

08: 45h Departure – in front of the entrance of Faculty of Architecture

10: 00h Coffee break and tour of Kaštel Ečka castle

12: 15h Production of chemicals: factory MSK

13: 15h Production of heaters: factory Zoppas

14: 45h Departure for the city of Kikinda (100 km from Guimarães)

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16: 00h Museum TERRA
 16: 50h Walk to one of the 50 most beautiful streets in the world - "Green Beauty"
 17: 05h The main square of Kikinda, a visit to the owl habitat and visit to the oldest citizen of the City - mammoth Kiki
 18: 00h Lunch in the festive hall of the restaurant Vila Bela
 19: 30h Departure for Belgrade
 20: 30h Coffee break in ethno village Tiganjica
 22: 00h Expected arrival in Belgrade

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Networked Urban Housing with Self-Managed Production

Case of Eco Green Village (MILD Home) in Belgrade

Abstract

This research focuses on developing a position towards the concept of housing and production as complementary programs in urban environments. The position that is represented in this research addresses the issue of sustainability of architectural space using two key notions: ecology + economy. Alternative definitions and interpretations of these two notions can offer a new understanding of the concept of sustainability in architecture. In this sense, ecology is considered as a practice that deals with the relations between people, and at the same time to their physical surroundings. Therefore, ecology implies social interactions. Economy is considered as a careful management of available resources. However, economy is also a relational activity, which implies diverse interactions between people (in sharing and distributing resources).

Introductory chapter of research opens a discussion on:

- Challenges of contemporary city living
- Urban-rural dichotomy and the rise of networks
- Towards new concepts of urban living

Eco Green Village. The Competition Proposal Case Study

The Case project in question is part of the EU funded project MILD Home that aims at defining the modalities of design and triggering the construction of a new typology of housing.

The project aims at defining the modalities of design and triggering the construction of a new typology of housing, called MILD HOME, having the following characteristics:

- (1) Energy-environmental with zero emissions, low energy consumption, passive house oriented, made with recyclable materials; the MILD HOME is conceived to be situated in an Eco Green Village with zero emissions, a sustainable waste/water management system and to foster the promotion of a responsible and environmentally aware lifestyle;*
- (2) At economic sustainability level, with low construction costs (thanks to the recognition of local supply-chains, and the use of modularity, specific design patterns and standardization of raw materials, DIY—Do-it-Yourself) as well as low operating costs.*

The innovative aspect of the project MILD HOME can be loosely summarized in providing the realization of a high energy performance house with affordable building and operating costs for low-middle income people who aspire to have a new customized house in a sustainable way.

Location proposed for the architectural competition is located in the zone of large green areas. At the time of competition, the area where the Eco Green Village (EGV) site was located was covered by the General Urban Plan of Belgrade (GUP 2021), but not by other, more detailed urban plans, although a Plan of General Regulation (PR) that covers the site area was under development. The site in the city Municipality of Savski Venac, where the Eco Green Village (EGV) site is located is a public, brownfield territory formally part of a military complex. It is situated in a residential area with family houses and urban villas. The above-mentioned Plan of General Regulation defines this area as a future housing complex. A model of MILD HOME and EGV that would be developed for this type of site would be applicable to other residential areas in other Belgrade municipalities as well as in other cities in Serbia.

- Row-housing typology overview

In the context of typology, row housing is conceived as a configuration of single-family dwellings in a row sequence. The housing configuration has spatial properties that are considered favorable in relation to the argument of this research. More precisely, this type of housing implies:

- 1) the rationality of a spatial solution in terms of climate (heating), whereby longer two opposing walls are always located between two heated spaces.*
- 2) density in terms of taking as little plot surface as possible in order to preserve the existing vegetation open areas as big as possible for activities that take place in the open.*
- 3) direct contact of the housing unit with the ground through the connection of the anteroom with a yard or a garden.*

- Proposed typology: Raw housing

Proposed spatial concept is based on an architectural intention for all housing units to achieve a direct contact with the ground. Such spatial configuration enables specific programmatic solutions that can be determined by the residents. These solutions are not pre-designed, but one could anticipate them. The spatial concept and the logic of housing that interacts with the ground differ from living in the multi-storey building; a part of the ground that is at our disposal becomes an area of everyday life, and this piece of land becomes a yard, a garden, greenhouse for growing foods, or a small production. This spatial and architectural concept merges ecology with economical logic (Ecology + Economy). This research case study proposes a Unit that is designed as a multi-storey spatial configuration that can vary in layout and also through time, depending on the needs. Variability over time is seen as one of the key aspects of (economically) sustainable living, so the project is structurally designed in order to allow additional/extra living space – a loft or a green house.

In terms of materiality and materials, this solution combines two approaches: environmental logic of using materials that are available and suitable for construction in particular context, (and therefore economically affordable), combined with the logic of sustainable energy sources through the use of contemporary technologies. The project is designed so that the most effective way to accept the circumstances in which it arises to the adjustment for optimum architectural circumstances.

In relation to above mentioned, the notion of Raw Housing is conceived as an urban housing concept that is unrefined, genuine, authentic, open, organic, natural and growth oriented.

Self-Managed Networked Productions In Urban Living

The way we produce, store and consume food has evolved greatly. With industrialization came mass production, and with mass production came an influx of consumers who pay for food instead of producing it. Skills and crafts related to agriculture and food production are now mostly obsolete in the urban environment.

This research proposes rural living conditions in urban environments, where density is urban and collective, but opportunities for production and self-management are individual. Proposed architectural concept incorporates innovative concepts for foods and goods production and distribution (0 km distribution)

This research is a comment, or rather a critique on collective multi-storey housing of today, and is focused towards sustainable futures in terms of economy. Economical independency implies social urban sustainability. Despite a common belief, households that are economically empowered and independent are also more willing to share, therefore more receptive towards contemporary shared economy concepts. Also, it is very important to acknowledge that this proposal is a critique of urban sprawl; despite the low floor numbers, the density of this housing is rather high, and proposed position is urban and central, rather than suburban/peripheral.

Keywords

Housing and production, hybrid typology, social ecology, relational sustainability