



8th
International
Academic
Conference on
Places and
Technologies

BOOK OF ABSTRACTS

EDITORS

Aleksandra Djukić
Aleksandra Krstić-Furundžić
Eva Vaništa Lazarević
Milena Vukmirović



Keeping up with technologies to imagine and build together sustainable, inclusive, and beautiful cities

**PLACES AND
TECHNOLOGIES**
2023

**8th International Academic
Conference on Places and Technologies**
Book of Abstracts

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**Aleksandra Djukić
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PUBLISHER

**University of Belgrade
Faculty of Architecture**

FOR PUBLISHER

Vladimir Lojanica

DESIGN

Vladimir Kovač

TECHNICAL SUPPORT

**Jelena Marić
Nikola Mitrović
Ana Šabanović**

PRINTED BY

Donat Graf d.o.o. Belgrade

CIRCULATION

150 copies

PLACE AND DATE

Belgrade, 19-21 October 2023

ISBN 978-86-7924-338-6



**PLACES
AND
TECHNO
LOGIES
2023**

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FROM UTOPIA TO REALISATION: FULLER'S EXPERIMENTAL MODEL AS A POTENTIAL METHOD IN CONTEMPORARY ARCHITECTURE

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ABSTRACT

This paper presents the ideas of the neo-avant-garde architect and inventor Buckminster Fuller. Relying on observing the Universe and analysing microorganisms while using the available technology, Fuller experimented and designed new architectural structures. His ideas were based on the advantage of steel as a material which works best in tension, thus reducing its cross-section and the overall weight of a structure. A unique characteristic of Fuller's opus is his utopian projects for flying structures and biospheres, with the idea of creating a new microclimate, which never fails to inspire architects and artists. Fuller's utopian ideas should be reconsidered in the contemporary age, following innovations in materials and technologies. This paper questions the possibility of applying Fuller's design methodology to contemporary structures, making them more lightweight, sustainable, and economical. The positioning of Buckminster Fuller's utopian ideas in a contemporary frame also revises the effect on social changes created by this type of architecture. It is a fusion of visual art, inventive design model, mechanical activity, economy, and overall evolutionary strategy for a new society. Concluding remarks will open questions about the possibility of the realisation of utopian ideas for a better and sustainable world. Or is it all still a utopia?

KEYWORDS _ *Buckminster Fuller, experimental architecture, Geodesic dome, total design, sustainable architecture*

**CIP - Каталогизacija у публикацији
Народна библиотека Србије, Београд**

711.4.01(048)
711.4:005.591.6(048)

INTERNATIONAL Academic Conference on
Places and Technologies (8 ; 2023 ; Beograd)

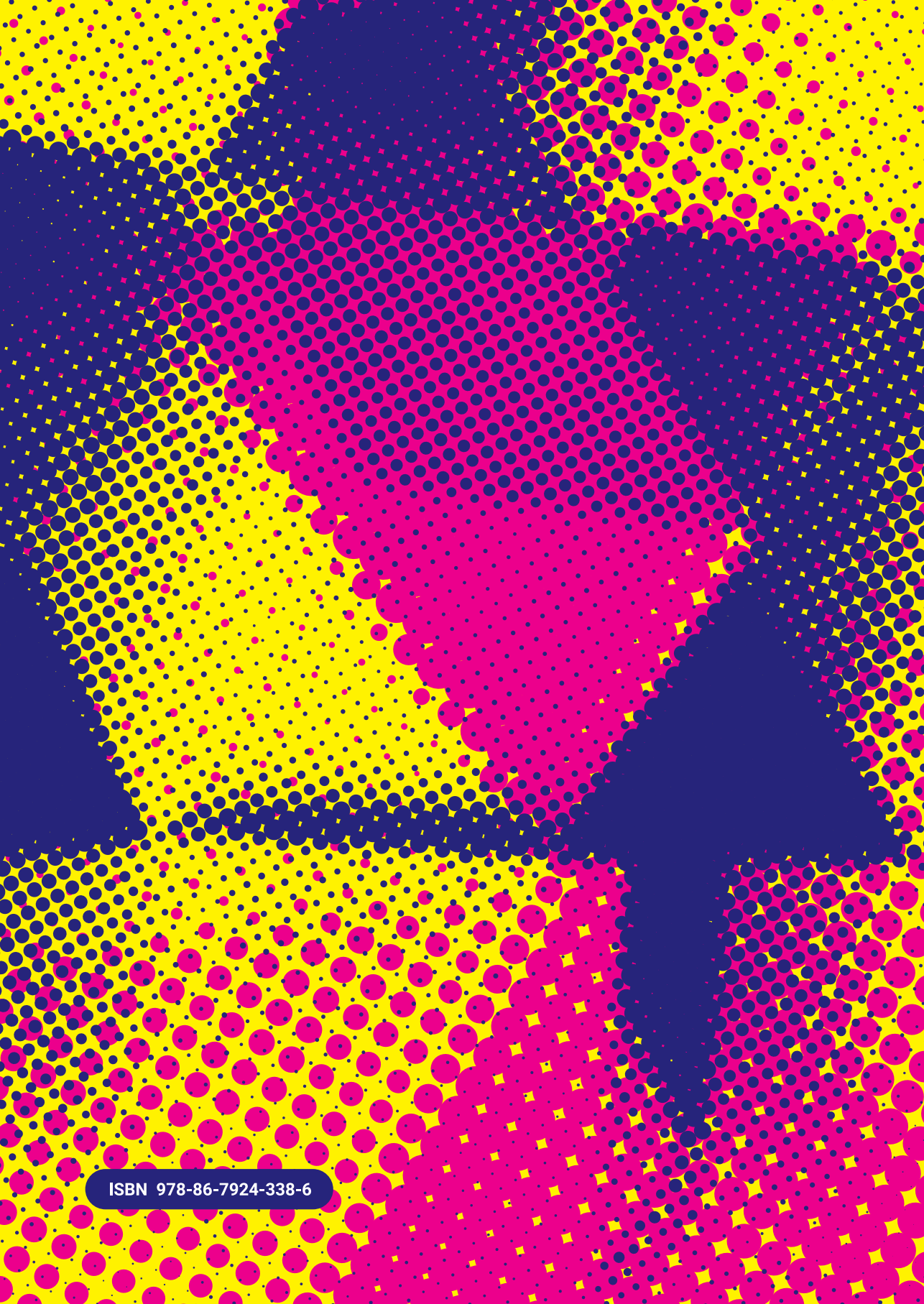
Keeping up with technologies to imagine and build
together sustainable, inclusive, and beautiful cities :
book of abstracts / 8th International Academic
Conference on Places and Technologies, Belgrade,
2023 ; editors Aleksandra Djukić ... [et al.]. - Belgrade :
University of Belgrade, Faculty of Architecture, 2023
(Belgrade : Donat Graf). - 103 str. ; 24 cm

Tiraž 150.

ISBN 978-86-7924-338-6

1. Đukić, Aleksandra, 1964- [urednik]
а) Градови -- Мултидисциплинарни приступ --
Апстрактни б) Урбанистичко планирање --
Технолошки развој -- Апстрактни

COBISS.SR-ID 127482121



ISBN 978-86-7924-338-6