



# International Journal of Architecture & Planning Volume 8, Special Issue, December 2020 DOI: 10.15320 / E-ISSN: 2147-9380 Online: http://iconarp.ktun.edu.tr/iconarp

This special issue was created by selecting the best papers presented at the International Congress of Architecture and Planning (ICONARCH IV) between 13-15 October 2020. The papers carefully selected by the ICONARCH IV Organizing Committee have been re-evaluated by the referees with a double blind peer review. Articles that received positive opinions from the referee reviews were published in the special issue after corrections.

# Owner

#### Prof. Dr. Rahmi Erdem

KTUN Dean of Faculty of Architecture and Design

# **Editor-in-Chief**

# Assoc. Prof. Dr. Fatih Eren

KTUN Department of Urban and Regional Planning, TR

### **Special Issue Editors**

# Asst. Prof. Dr. Kadriye Deniz Topçu

Department of Urban and Regional Planning, TR

### Asst.Prof. Dr. Neslihan Serdaroğlu Sağ

Department of Urban and Regional Planning, TR

### Asst. Prof. Dr. Sinan Levend

Department of Urban and Regional Planning, TR

### **Executive Editors**

Assoc. Prof. Dr. Fatih Canan

KTUN Department of Architecture, TR

Assoc. Prof. Dr. Mustafa Korumaz

KTUN Department of Architecture, TR

# **Managing Editor**

# Res. Asst. Çiğdem Fındıklar Ülkü

Department of Urban and Regional Planning, TR

# **Publishing Editor**

### Res. Asst. Mihrimah Şenalp

KTUN, Department of Architecture, TR



### **Assistant Editors**

Res. Asst. Kübra Koçer

KTUN, Department of Urban and Regional Planning, TR

Res. Asst. Muzaffer Ali Yaygın

KTUN Department of Urban and Regional Planning, TR

### **Statistics Editor**

**Asst. Prof. Dr. Muslu Kazım Körez** SU, Faculty of Medicine, Department of Biostatistics, TR

# **International Editorial Board**

Prof. Dr. İmdat As Hartford University, USA Prof. Dr. Godfried Augenbroe Georgia Institute of Technology, USA Prof. Dr. Michele Chiuini Ball State University, USA Prof. Dr. Pieter De Wilde Plymouth University, UK Prof. Dr. Fernando Diaz Orueta University of La Rioja, ES Prof. Dr. Emilia Van Egmond Eindhoven University of Technology, NL Prof. Dr. Davide Ponzini Politecnico di Milano, IT Prof. Dr. Agatino Rizzo Lulea University of Technology, SE Prof. Dr. Sevil Sarıyıldız Delft University of Technology, NL Prof. Dr. Ewa Stachura University of Economics in Katowice, PL **Prof. Dr. Christine Theodoropoulos** California State Polytechnic University, USA Prof. Dr. Grazia Tucci University of Florence, IT Prof. Dr. Lionella Scazzosi Politecnico di Milano IT

### **Reviewers Contributed to This Issue**

Prof. Dr. Koray Özcan Pamukkale University, TR Assoc. Prof.Dr. Fatih Semerci Necmettin Erbakan University, TR Assoc. Prof. Dr. Hatice Derva Arslan Necmettin Erbakan University, TR Assoc. Prof .Dr. Jülide Alp Maltepe University, TR Assoc. Prof. Dr. Kıvanç Ertuğay Akdeniz University, TR Assoc. Prof. Dr. Özer Karakayacı Konya Technical University, TR Assoc. Prof. Dr. Serap Durmuş Karadeniz Technical University, TR Öztürk Assoc. Prof. Dr. Serra Zerrin Konya Technical University, TR Korkmaz Assoc. Prof. Dr. Yasemin Çakırer Marmara University, TR Özservet Asst. Prof. Dr. Esin Sarıman Özen Mimar Sinan Fine Arts University, TR Asst.Prof. Dr. Fadim Yavuz Necmettin Erbakan University, TR

Volume 8, Special Issue, December 2020 DOI: 10.15320 /E-ISSN: 2147-9380



**Asst. Prof. Dr. Muhammed Ziya** Gebze Technical University, TR

Paköz

Asst. Prof. Dr. Seher Özkazanç
Asst. Prof. Dr. Selçuk Sayın
Asst. Prof. Dr. Semiha Sultan

Necmettin Erbakan University, TR
Konya Technical University, TR
Necmettin Erbakan University, TR

Tekkanat

**Asst. Prof. Dr. Yasin Bektaş** Erciyes University, TR

**Dr. Adem Sakarya**Yıldız Technical University, TR**Dr. Ahadollah Azami**Eastern Mediterrian University, CYP

# **ICONARP** INTERNATIONAL JOURNAL OF ARCHITECTURE & PLANNING

ICONARP as a free academic e-journal considers original research articles and viewpoints in peer-reviewed.

Architecture, Planning and Design are strongly affected by other disciplines such as fine arts, philosophy, engineering, geography, economics, politics, sociology, history, psychology, geology, information technology, ecology, law, security and management. However, there are not enough academic journals which specifically focus on the connections of architecture, planning and design with other fields of science. ICONARP aims to fill that gap. Our scope is to provide a suitable space for theoretical, methodological and empirical papers, which use global and local perspectives together, in architectural and urban studies.

ICONARP aims to be a reputable platform for the studies of Architecture, Planning and Design. ICONARP's objectives are:

- To question global and local interactions in the field of Architecture, Planning and Design,
- To discover the relationship between Architecture, Planning and Design,
- To increase the contribution of Architecture, Planning and Design to social and behavioral sciences,
- To discover the relationship of Architecture, Planning and Design with other fields of science that are affected and affect,
- To develop theoretical and methodological foundations of Architecture, Planning and Design,
- To discuss the role of architects, planners and designers today and in the future,
- To compare the differences between architecture, planning and design research, practices and education in different countries,
- To bring a scientific view of current issues and discussions in field of Architecture, Planning and Design,
- To discover innovative methods and techniques in the field of Architecture, Planning and Design.

Volume 8, Special Issue, December 2020 DOI: 10.15320 /E-ISSN: 2147-9380



# **ABSTRACTING AND INDEXING**

ICONARP is an Open Access Journal which presents its content freely for online researches with the aim of contributing to the global exchange of knowledge. ICONARP believes that providing free online access ensures a wider spectrum of research base and reading rate to develop the related literature.

"The abstracting, database and indexing services that ICONARP is included are: Emerging Sources Citation Index (ESCI) (Web of Science), DOAJ, Avery Index to Architectural Periodicals, Tubitak Ulakbim TR Dizin, Iconda Bibliographic (The International Construction Database), NSD Norwegian Register for Scientific Journals, ROAD (Directory of Open Access), Crossref, OpenAIRE, OCLC WorldCat, BASE (Bielefeld Academic Search Engine), Scilit, Google Scholar and D-Space (database)"

Cover Photo: Jakarta, Cover Owner: Fatih EREN, Cover Design: Mihrimah ŞENALP



# **CONTRUBITORS TO THIS ISSUE**

### Collins Ouma Agayi

PhD student, Faculty of Architecture and Design, Konya Technical University, Konya, Turkey. E-mail: agaiagayi@gmail.com

### Ümit Arpacıoğlu

Assoc. Prof. Dr., Faculty of Architecture, Mimar Sinan Fine Arts University, Istanbul, Turkey. E-mail: umit.arpacioglu@msgsu.edu.tr

#### Ömer Bilen

Asst. Prof. Dr., Faculty of Architecture and Design, Bursa Technical University, Bursa, Turkey. E-mail: omer.bilen@btu.edu.tr

#### Mehmet Gür

Dr., Faculty of Civil Engineering, Department of Geomatic Engineering, Yıldız Technical University, İstanbul, Turkey.

E-mail: gur@yildiz.edu.tr

### H. Ercan Gürcan

Faculty of Architecture and Design, Konya Technical University, Konya, Turkey. E-mail: mim.ercan.gurcan@gmail.com

### Ayşenur Dağ Gürcan

Lecturer, Faculty of Fine Arts and Design, KTO Karatay University, Konya, Turkey. E-mail: aysenur.dag@karatay.edu.tr

### Kutay Karabağ

Lecturer, Faculty of Architecture, Bilgi University, Istanbul, Turkey. E-mail: kutaykarabag@gmail.com

### Ebru Kamacı Karahan

Asst. Prof. Dr., Faculty of Architecture and Design, Bursa Technical University, Bursa, Turkey. E-mail: ebru.karahan@btu.edu.tr

### Özer Karakayacı

Assoc. Prof. Dr., Faculty of Architecture and Design, Konya Technical University, Konya, Turkey. E-mail: karkayaci@gmail.com

### Ersan Koç

Asst. Prof. Dr., Faculty of Architecture and Design, Bursa Technical University, Bursa, Turkey. E-mail: ersan.koc@btu.edu.tr

### Sezgi Giray Küçük

Asst. Prof. Dr., Architectural Restoration Programme, Vocational School, Mimar Sinan Fine Arts University, Turkey.

E-mail: sezgi.giray.kucuk@msgsu.edu.tr



### Duygu Okumuş

Lecturer, Faculty of Architecture and Design, Bursa Technical University, Bursa, Turkey. E-mail: duygu.okumus@btu.edu.tr

### Ayşıl Coşkuner Pamuk

Res. Asst., Department of Architecture, Istanbul Sabahattin Zaim University, Istanbul, Turkey. E-mail: aysil.pamuk@izu.edu.tr

### Zeynep Şahbaz

Graduate Student, Faculty of Architecture, Bilgi University, Istanbul, Turkey. Email: zeysahbaz@gmail.com

### İbrahim Agah Taştemir

Res. Asst., Department of Interior Architecture and Environmental Design, Istanbul Sabahattin Zaim University, Istanbul, Turkey.

E-mail: ibrahim.tastemir@izu.edu.tr

#### Veli Mustafa Yönder

Res. Asst. Faculty of Architecture, İzmir Institute of Technology, İzmir, Turkey. E-mail: velimustafayonder@gmail.com



# CONTENTS

Articles	Pages
Veli Mustafa Yönder A Case Study on Generative Building Skin Forming by Employing Building Information Modelling (BIM) Tools	01-17
<b>Ayşenur Dağ Gürcan , H. Ercan Gürcan</b> Darwinian Approach and Mutations: Bjarke Ingels (BIG) and Analysis of His Stepped Pixels Buildings	18-37
Ömer Bilen, Mehmet Gür, Ersan Koç & Ebru Kamacı Karahan Spatial Distribution Analysis of Syrian Immigrant Population Problem in Fatih - İstanbul	38-53
<b>Sezgi Giray Küçük</b> Bosphorus Coastal Road and Settlements Between Beşiktaş and Bebek in 1939 Plan	54-80
Collins Ouma Agayi, Özer Karakayacı Challenges to Urban Housing Policies Implementation Efforts: The Case of Nairobi, Kenya	81-101
Ayşıl Coşkuner Pamuk, İbrahim Agah Taştemir, Ümit Arpacıoğlu A Comparative Study on Daylight Performance of Konya Mosques Built in Anatolian Seljuk and Ottoman Period	102-123
<b>Kutay Karabağ, Zeynep Şahbaz</b> 'Floating Public Space' for Birds: Design Research and Prototype Fabrication in Haliç	124-142
<b>Duygu Okumuş</b> "Inherited Gentrification": Changing Profiles of Gentrifiers Via Inheritance, The Case of Bozcaada	143-168