IAcSAS 2024

FINAL INTERNATIONAL UNIVERSITY

4TH INTERNATIONAL ARCHITECTURAL SCIENCES & APPLICATIONS SYMPOSIUM

May 30-31, 2024 / Final International University
Kyrenia, Turkish Republic of Northern Cyprus
Online and Face to Face

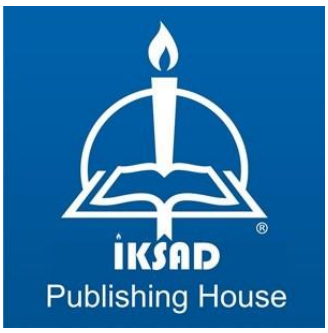
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IV. International Architectural Sciences and Applications Symposium

(IArcSAS-2024)

https://www.iarcsas.org/

May 30-31, 2024, Girne-Turkish Republic of Northern Cyprus

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(Abstracts & Full Texts)

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SYMPOSIUM ID

SYMPOSIUM TITLE

IV. International Architectural Sciences and Applications Symposium
(IArcSAS-2024)

DATE AND PLACE

May 30-31, 2024
Final International University, Girne- Turkish Republic of Northern Cyprus

ORGANIZING

The Editorial Board of the Journal of Architectural Sciences and Applications,
Isparta, Türkiye.
(https://dergipark.org.tr/en/pub/mbud)

Institute of Economic Development and Social Research,
Ankara, Türkiye.
(https://www.iksadinstitute.org/)

Final International University,
Girne- Turkish Republic of Northern Cyprus
https://www.final.edu.tr/

PRESENTATION

Oral and Online Presentations

EVALUATION PROCESS AND POLICIES

All applications have undergone double blind peer review process. In addition, each paper was accepted and the process of publishing in the book was carried out through editorial oversight. The published papers were presented and discussed at the meeting.

Full texts and abstracts published in accordance with the Symposium Policy have been prepared in accordance with ethical rules and APA standards. Authors of all papers are both ethically and legally responsible.

AIM OF THE SYMPOSIUM

This Symposium aims to bring together qualified scientists from Türkiye and abroad on a common international platform under the umbrella of Architectural Sciences and to enable different disciplines to share their valuable research.

TOPICS OF THE SYMPOSIUM

- Planning (Planning theories, planning paradigms, types of planning, regional planning, watershed planning, landscape planning, urban planning, rural planning, planning and protection, spatial and temporal changes, site selection methods, etc.)
- Design (Design theories, Space, Building, Urban, Landscape, Rural, Village, Tourism, Recreational, Environment, Interior Architecture, Plantation, Industrial Products, Ecological, Universal, Disabled, etc.)
- Sociology / Psychology / Art / Philosophy / History / Identity / Theory / Aesthetics
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- Tourism / Recreation / Cultural Tourism / Nature Tourism / Ecotourism / Archaeology
- Climate Change / Renewable Energy / Energy saving / Energy Transition / Water / Sustainability / Ecology/ Environment / Sustainable Development
- Smart and Ecological Cities / Urbanism / Landscape / Open and Green Spaces / Green infrastructure / Transportation / Urban Agriculture / Urban Renewal / Transformation
- Building Materials / Green Buildings / Urban Accessories and Furniture / Landscape materials/ Landscape Plant Materials and Using/ Plant Cultivation and Use
- Technology / Artificial Intelligence / Digital Architecture and 3D Software and Printer, GIS, Remote sensing
- Health / Pandemic / Food / Occupational Health and Safety
- Higher Education in Architectural Sciences / R&D / Scientific Researches / Publications
- Economic / Policies / Legislation / Management / Governance / Practices / Sectoral Problems
- Planning and Design Project Competitions and Processes /Applied Project

PARTICIPANTS COUNTRIES

Algeria, Azerbaijan, Germany, Hungary, India, Indonesia, Italy, Kazakhstan, Malaysia, Morocco, Nigeria, Portugal, Pakistan, Poland, Portugal, Romania, South Africa, Spain, Türkiye, Turkish Republic of Northern Cyprus, Vietnam

TOTAL ACCEPTED ARTICLES: 390

Number of Rejected Papers: 30
The Number of Accepted Papers from Türkiye: 182
The Number of Accepted Full Papers from Other Countries: 208

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- Naif Haddad - Department of Conservation Science, Queen Rania Faculty of Tourism and Heritage, Hashemite University, Jordan
- Nermeen Adnan Dalgamoni - Jordan University of Science and Technology, Department of City Planning and Design, Irbid, Jordan

- Neslihan Dalkılıç - Dicle University, Institute of Science and Technology, Department of Architecture, Diyarbakır-Türkiye
- Neslihan Yıldız - Istanbul Gedik University Faculty of Fine Arts and Architecture Department of Architecture, Istanbul-Türkiye
- Neşe Yılmaz Bakır - Erciyes University, Faculty of Architecture, Department of City and Regional Planning, Kayseri -Türkiye
- Nihal Arda Akyıldız - Balıkesir University, Faculty of Architecture, Department of Architecture, Balıkesir-Türkiye
- Nilay Coşgun - Gebze Technical University, Faculty of Architecture, Department of Architecture, Gebze-Türkiye
- Nilgün Görer Tamer - Gazi University, Department of City and Regional Planning, Ankara- Türkiye
- Nilüfer Kart Aktaş - Istanbul University-Cerrahpasa, Faculty of Forest, Department of Landscape Architecture, Istanbul -Türkiye
- Nur Belkayalı - Kastamonu University, Faculty of Engineering and Architecture, Department of Landscape Architecture, Kastamonu-Türkiye
- Nur Çağlar - TOBB ETU Faculty of Architecture and Design, Architecture, Ankara- Türkiye
- Nuray Benli Yıldız - Düzce University, Faculty of Art and Design, Department of Architecture, Düzce-Türkiye
- Nurdil Eskin - Istanbul Technical University, Department of Mechanical Engineering, Istanbul, Türkiye
- Nusret Algan - Mersin University Faculty of Fine Arts Ceramics Department, Mersin-Türkiye
- Oleksandr Zinenko - V. Karazin Kharkiv National University, Kharkiv, 61022, Ukraine
- Osman Arayıcı - Mimar Sinan Fine Arts University, Department of Interior Architecture, Istanbul-Türkiye
- Osman Attmann - The University of Colorado Denver, College of Architecture and Planning, Department of Architecture, Denver-USA
- Ömer Atabeyoğlu - Ordu University, Faculty of Agriculture, Department of Landscape Architecture, Ordu-Türkiye
- Ömer Faruk Uzun - Sakarya App. Sciences Univ. Faculty of Agriculture, Department of Landscape Architecture, Sakarya-Türkiye
- Ömer Lütfü Çorbacı - Recep Tayyip Erdoğan University, Faculty of Engineering and Architecture, Department of Landscape Architecture, Rize-Türkiye
- Ömer Mimaroğlu - Istanbul Sabahattin Zaim University Faculty of Engineering and Natural Sciences Department of Architecture, Türkiye
- Önder Küçükerman - Haliç University, Faculty of Architecture, Department of Industrial Design, İstanbul-Türkiye
- Özgü Özturan - Akdeniz University, Department of Interior Architecture, Antalya-Türkiye
- Özgür Yıldız - Malatya Turgut Özal University Faculty of Art, Design, and Architecture Department of Architecture, Malatya-Türkiye
- Özlem Bozkurt - Tekirdağ Namık Kemal University, Vocational School of Technical Sciences, Department of Materials and Materials Processing Technologies, Tekirdag-Türkiye

- Özlem Sağıroğlu - Gazi University, Faculty of Architecture, Department of Architecture, Ankara-Türkiye
- Pelin Şahin Körmeçli - Çankırı Karatekin University, Faculty of Forestry, Department of Landscape Architecture, Çankırı-Türkiye
- Pınar Kılıç Özkan - İzmir Demokrasi University, Faculty of Architecture, Department of Architecture İzmir - Türkiye
- Pervin Yeşil - Ordu University, Faculty of Agriculture, Department of Landscape Architecture, Ordu-Türkiye
- Piyush Sharma - Amity University, Hindistan/ Prof. Dr., Amity University, Hindistan
- Rosa Anna La Rocca - The University of Naples Federico II, Department of Civil, Architectural and Environmental Engineering, Napoli, Italy
- Rüya Ardıçoğlu - Firat University, Faculty of Architecture, Department of Architecture, Elazig-Türkiye
- S. Gül Güneş - Selçuk University, Faculty of Tourism, Department of Recreation Management, Konya-Türkiye
- Sadia Farooq - University of Home Economics, Lahore, Pakistan
- Salih Salbacak - Fatih Sultan Mehmet Vakif University, Department of Interior Architecture, Türkiye
- Saliha Taşçıoğlu - Kilis 7 Aralik University Technical Sciences Vocational School Department of Park and Horticulture - Türkiye
- Sara Demir - Bursa Technical University, Faculty of Forestry, Department of Landscape Architecture, Bursa -Türkiye
- Seden Acun Özgünler - Istanbul Technical University, Faculty of Architecture, Department of Architecture, Building Science Program, İstanbul-Türkiye
- Seema Mehra Parihar - Department of Geography, Kirori Mal College, University of Delhi, India
- Serap Kayasu - Middle East Technical University, Faculty of Architecture, Department of City and Regional Planning
- Serdar Selim - Akdeniz University Faculty of Science, Department of Space Science and Technologies, Department Of Distance Education, Antalya-Türkiye
- Serdar Oktay - Final International University, School of Tourism and Culinary Arts, Department of Tourism, TRNC
- Serpil Önder - Selçuk University, Faculty of Architecture and Design, Department of Landscape Architecture, Konya-Türkiye
- Sertaç Güngör - Selcuk University, Faculty of Architecture and Design, Department of Landscape Architecture, Konya-Türkiye
- Sevgi Yılmaz - Atatürk University, Faculty of Architecture and Design, Department of Landscape Architecture, Erzurum-Türkiye
- Shirin Izadpanah - Antalya Bilim University, Department of Interior Architecture and Environmental Design, Antalya -Türkiye
- Sibel Acar - TOBB ETU Faculty of Architecture and Design, Architecture, Ankara-Türkiye
- Silvia Rossetti - The University of Parma, Department of Engineering and Architecture, Parma Italy

- Sima Pouya - İnönü University, Faculty of Fine Arts and Design, Department of Landscape Architecture, Malatya-Türkiye
- Swetha Madhusudanan - MGR University, School of Architecture, Chennai, India
- Şevket Alp - Van Yüzüncü Yıl University, Faculty of Architecture and Design, Department of Landscape Architecture, Van-Türkiye
- Şeyda Emekci - Ankara Yıldırım Beyazıt University, Faculty of Architecture and Fine Arts, Architecture Department, Ankara- Türkiye
- Şirin Dönmez - Süleyman Demirel University, Faculty of Architecture, Department of Landscape Architecture, Isparta-Türkiye
- Şule Kısakürek - Kahramanmaraş Sütçü İmam University, Faculty of Forestry, Department of Landscape Architecture, Kahramanmaraş-Türkiye
- Şükran Şahin - Ankara University, Faculty of Agriculture, Department of Landscape Architecture, Ankara-Türkiye
- Taner Özdil - The University of Texas, College of Architecture, Planning and Landscape Architecture, Arlington-USA
- Tonguç Akış - İzmir Institute of Technology, Faculty of Architecture, Department of Architecture, İzmir - Türkiye
- Tonguç Tokol - Marmara University, Department of Interior Architecture, Istanbul-Türkiye
- Tuğba Düzenli - Karadeniz Technical University, Faculty of Forestry, Department of Landscape Architecture, Trabzon-Türkiye
- Ufuk Çoşgun - Karabük University, Faculty of Forestry, Department of Forestry, Karabük- Türkiye
- Umut Tuğlu Karslı - Istanbul University, Faculty of Architecture, Department of Interior Architecture and Environmental Design, Istanbul -Türkiye
- Ümit Yurt - üzce University, Düzce Vocational School Construction Technology Department, Düzce-Türkiye
- Vibhavari Janhi - Kansas State University, College of Architecture, Planning, and Design, Department of Interior Architecture & Product Design, USA
- Vagif Memmedov - Baku Engineering University, Baku- Azerbaijan
- Yasin Xəlilov - Baku Engineering University, Baku- Azerbaijan
- Zeidan Kafafi- Emeritus of Archaeology of Yarmouk University, Jordan
- Zeliha Şahin Çağlı - Ostim Technical University, Faculty of Architecture and Design, Department of Industrial Design, Ankara-Türkiye
- Zeynep Pirselimoğlu Batman - Uludağ University, Faculty of Forestry, Department of Landscape Architecture, Bursa -Türkiye
- Zuhal Kaynakçı Elinç - Akdeniz University, Faculty of Architecture, Department of Interior Architecture, Antalya Türkiye

IV. International Architectural Sciences and Applications Symposium

(IArcSAS-2024)

https://www.iarcsas.org/

May 30-31, 2024

Girne- Turkish Republic of Northern Cyprus

SYMPOSIUM SCHEDULE

Join Zoom Meeting

https://us02web.zoom.us/j/86052666988?pwd=QVh6aWM5MVEzQm8zaEdIVmVab0Q4Zz09

Meeting ID: 860 5266 6988
Passcode: 123456

PARTICIPATING COUNTRIES

Algeria, Azerbaijan, Germany, Hungary, India, Indonesia, Italy, Kazakhstan, Malaysia, Morocco, Nigeria, Portugal, Pakistan, Poland, Portugal, Romania, South Africa, Spain, Türkiye, Turkish Republic of Northern Cyprus, Vietnam

TOTAL ACCEPTED ARTICLES: 390

Türkiye: 182
Other Countries: 208

IMPORTANT

- To be able to make a meeting online, log in via **https://zoom.us/join** site, enter ID instead of "Meeting ID or Personal link Name'' and solidify the session.
- **Each presentation is limited to a maximum of 15 minutes.**
- **Session times should never be exceeded. It must be completed on time before the next session starts.**
- **Presentations can be presented in "English or Turkish". However, visual presentations must be "English text".**
- The Zoom application is free and no need to create an account.
- The Zoom application can be used without registration.
- The application works on tablets, phones, and PCs.
- Speakers must be connected to the session **15 minutes before** the presentation time.
- All Symposium participants can connect live and listen to all sessions.
- During the session, your camera should be turned on at least %70 of the session period
- Moderator is responsible for the presentation and scientific discussion (question-answer) section of the session.

TECHNICAL INFORMATION

- Make sure your computer has a microphone and is working.
- You should be able to use the screen sharing feature in Zoom.
- Attendance certificates will be sent to you as a pdf at the end of the Symposium.

Before you, log in to Zoom indicate Session and Hall number and your surname
(SESSION 1-HALL-1, BARAN)

ÖNEMLİ

- Sempozyumda Yazım Kurallarına uygun gönderilmiş ve bilim kurulundan geçen bildiriler için online (video konferans sistemi üzerinden) sunum imkanı sağlanmıştır.
- Online sunum yapabilmek için **https://zoom.us/join** sitesi üzerinden giriş yaparak "Meeting ID or Personal Link Name" yerine ID numarasını girerek oturuma katılabilirsiniz.
- **Her bir sunum en fazla 15 dakika ile sınırlandırılmıştır.**
- **Oturum süreleri kesinlikle aşılmamalıdır. Bir sonraki oturum başlamadan önce zamanında tamamlanmalıdır.**
- **Sunumlar "İngilizce veya Türkçe" sunulabilir. Ancak görsel sunumlar mutlaka "İngilizce metin" olmalıdır.**
- Zoom uygulaması ücretsizdir ve hesap oluşturmaya gerek yoktur.
- Zoom uygulaması kaydolmadan kullanılabilir.
- Uygulama tablet, telefon ve PC'lerde çalışmaktadır.
- Sunum yapacakların sunum saatinden **15 dk önce** oturuma bağlanmış olmaları gerekmektedir.
- Tüm katılımcılar oturumlara online katılıp dinleyebilir.
- Oturumdaki sunumlardan ve bilimsel tartışmalardan (soru-cevap) oturum başkanları sorumludur.

TEKNIK BILGILER

- Bilgisayarınızda çalışır durumda mikrofon bulunmalıdır.
- Zoom'da ekran paylaşma özelliği kullanılabilmelidir.
- Katılım belgeleri Sempozyum sonunda tarafınıza pdf olarak gönderilecektir.
- Sempozyum programında yer ve saat değişikliği gibi talepler dikkate alınmayacaktır.

Zoom'a girişte sırayla Oturum ve Salon numarasını ve Soyadınızı yazınız
(OTURUM 1-SALON-1, BARAN)

SYMPOSIUM SCHEDULE

May 30, 2024 (Thursday)

Join Zoom Meeting

https://us02web.zoom.us/j/86052666988?pwd=QVh6aWM5MVEzQm8zaEdIVmVab0Q4Zz09

Meeting ID: 860 5266 6988

Passcode: 123456

Cyprus Time 10:00-11:00	Opening Speeches

Cyprus Time 11:30-12:45	PANEL 1 (Face to Face and Online) (Hall: St. Hllarion)		
Moderator	Nafiya GÜDEN		
Invited Speakers	Birgül GÜVENIR BEYATLI	Hasan KARLITAŞ	Feriha TEL
13:00-14:00 IAUNCH			

	Face to Face SESSIONS May 30, 2024 (Thursday)		
Cyprus Time 14:00-16:15	SESSION 1 (Hall: St. Hilarion)	SESSION 2 (Hall: Kantara)	SESSION 3 Hall : Buffavento
Moderators	Seden TURAMBERK ÖZERDEN	Murat AKTEN	Ahmet FİDAN
Cyprus Time 16:30-18:45	SESSION 4 (Hall: St. Hilarion)	SESSION 5 (Hall: Kantara)	
Moderators	Soad Abokhamis MOUSAVİ	Tendü Hilal GÖKTUĞ	

May 30, 2024 (Thursday) (Online)

Join Zoom Meeting

https://us02web.zoom.us/j/86052666988?pwd=QVh6aWM5MVEzQm8zaEdIVmVab0Q4Zz09

Meeting ID: 860 5266 6988

Passcode: 123456

Cyprus Time 14:00-16:15	SESSION 6 (Online) HALL-1	SESSION 7 (Online) HALL-2	SESSION 8 (Online) HALL-3	SESSION 9 (Online) HALL-4	SESSION-10 (Online) HALL-5	SESSION 11 (Online) HALL-6	SESSION 12 (Online) HALL-7
Moderators	Filiz KARAKUŞ	Arzu ISPALAR ÇAHANTIMUR	Sevgi YILMAZ	Zeynep ÜSTÜN ONUR	Rasiha KAYALAR	Kamal Kumar ARORA	Slobodan POPOVIĆ

Cyprus Time 16:30-18:00	SESSION 13 (Online) HALL-1	SESSION 14 (Online) HALL-2	SESSION 15 (Online) HALL-3	SESSION 16 (Online) HALL-4	SESSION-17 (Online) HALL-5	SESSION 18 (Online) HALL-6	SESSION 19 (Online) HALL-7
Moderators	Ahmet Cüney DİRİ	Öner DEMİREL	Hasan YILMAZ	Kasra TALEBIAN	Deniz HASIRCI	Pelin FIRAT ÖRS	Abdelmoutalib BENFRID

Cyprus Time 18:15-20:00	PANEL 2 (Online) HALL-1				
Moderator	Aminreza IRANMANESH				
Invited Speakers	Ruşen KELEŞ	Şükran ŞAHİN	Mehmet TUNCER	Kağan GÜNÇE	

May 31, 2024 (Friday) (Online)

Join Zoom Meeting

https://us02web.zoom.us/j/86052666988?pwd=QVh6aWM5MVEzQm8zaEdIVmVab0Q4Zz09

Meeting ID: 860 5266 6988

Passcode: 123456

May 31, 2024							
	Cyprus Time 8:30-10:45	SESSION 20 (Online)	SESSION 21 (Online)	SESSION 22 (Online)	SESSION 23 (Online)	SESSION-24 (Online)	SESSION 25 (Online)
		HALL-1	HALL-2	HALL-3	HALL-4	HALL-5	HALL-6
	Moderators	Floriana ZUCARO	Şükran ŞAHİN	Pooya LOTFABADİ	Ufuk ÇOŞGUN	Halime GÖZLÜKAYA	Wasiu Abiodun MAKINDE
	Cyprus Time 11:00-13:15	SESSION 26 (Online)	SESSION 27 (Online)	SESSION 28 (Online)	SESSION 29 (Online)	SESSION-30 (Online)	SESSION 31 (Online)
		HALL-1	HALL-2	HALL-3	HALL-4	HALL-5	HALL-6
	Moderators	Sultan Sevinç KURT KONAKOĞLU	Ümit ARPACIOĞLU	H. Berk TÜRKER	Ahmet Erkan METİN	Fedwa BEGHDADI	Irfan MUSTAFA
	Cyprus Time 13:30-15:45	SESSION 32 (Online)	SESSION 33 (Online)	SESSION 34 (Online)	SESSION 35 (Online)	SESSION-36 (Online)	SESSION 37 (Online)
		HALL-1	HALL-2	HALL-3	HALL-4	HALL-5	HALL-6
	Moderators	Niyazi Uğur KOÇKAL	Şirin Gülcen EREN	Gizem DİNÇ	Hatice Eda GÜL	Kamiar YAZDANI	Alexandrov V.S.
	Cyprus Time 16:00-18:15	SESSION 38 (Online)	SESSION 39 (Online)	SESSION 40 (Online)	SESSION 41 (Online)	SESSION-42 (Online)	SESSION 43 (Online)
		HALL-1	HALL-2	HALL-3	HALL-4	HALL-5	HALL-6
	Moderators	Berna ÜSTÜN	Murat ZENGİN	Meryem Bihter BİNGÜL BULUT	Mete Ünal GİRGEN	Tuba Gizem AYDOĞAN	Dhulasiraman M
	Cyprus Time 19:00-21:45	SESSION 44 (Online)	SESSION 45 (Online)	SESSION 46 (Online)	SESSION 47 (Online)	SESSION-48 (Online)	SESSION 49 (Online)
		HALL-1	HALL-2	HALL-3	HALL-4	HALL-5	HALL-6
	Moderators	Asena SOYLUK	Leyla SURİ	Ertan DÜZGÜNEŞ	Mert ÇAKIR	Çağla AYDEMİR	İlayda TÜRKER

OPENING SPEECHES

Date: May 30, 2024

CYPRUS Time: 10:00 -11:15

Announcer:

Face to Face and Online

Join Zoom Meeting

https://us02web.zoom.us/j/86052666988?pwd=QVh6aWM5MVEzQm8zaEdIVmVab0Q4Zz09

Meeting ID: 860 5266 6988

Passcode: 123456

SPEAKERS	AFFILIATION
Prof. Dr. Atila GÜL	President of the Organizing Board (IArcSAS-2024) and Chief Editor, *Journal of Architectural Sciences and Applications*, Türkiye
Dr. Mustafa Latif EMEK	President of the Economic Development and Social Research Association (IKSAD), Türkiye
Prof. Dr. Orhan GEMİKONAKLI	Vice Rector of Final International University,
Özgün OLGUNER	TRNC Tourism Planning and Department Representative
Ahmet REŞBER	Çatalköy-Esentepe Municipality Director of Architecture Department

Invited Speakers for IArcSAS- 2024

PANEL-1

'Architectural Structures and Sustainable Tourism

May 30, 2024 (THURSDAY) - Cyprus Time: 11:30-12:45

Face to Face St. Hillarion-Salon II

Join Zoom Meeting

https://us02web.zoom.us/j/86052666988?pwd=QVh6aWM5MVEzQm8zaEdIVmVab0Q4Zz09

Meeting ID: 860 5266 6988- Passcode: 123456



MODERATOR
Nafiya GÜDEN







Birgül GÜVENİR BEYATLI	**Hasan KARLITAŞ**	**Feriha TEL**
Architect, Boutique Hotel businesswoman and Founder of Cyprus Small Hotels Association, North Cyprus	***Tourist Guide and Author, North Cyprus***	***President of the Cyprus Green Peace Movement, North Cyprus***
"The Contribution of Small Accommodations to Sustainable Tourism" *(Küçük Konaklamaların Sürdürülebilir Turizimine Katkısı)'*	**"Tour Guide Perspective on Architecture"** *(Tur Rehberinin Mimariye Bakış Açısı)*	**"Tourism and the Role of Infrastructure Development on the Environment"** *(Turizm ve Altyapı Gelişiminin Çevre Üzerindeki Rolü)*

Invited Speakers for IArcSAS- 2024

PANEL-2

Sustainable Urbanization and Architectural Heritage

May 30, 2024 (THURSDAY) - Cyprus Time: 18:15-20:00

Join Zoom Meeting

https://us02web.zoom.us/j/86052666988?pwd=QVh6aWM5MVEzQm8zaEdlVmVab0Q4Zz09

Meeting ID: 860 5266 6988-- Passcode: 123456



MODERATOR:

Assoc. Prof. Dr. Aminreza IRANMANESH









Prof. Dr. Ruşen KELEŞ	**Prof. Dr. Şükran ŞAHİN**	**Prof. Dr. Mehmet TUNCER**	**Prof. Dr. Kağan GÜNÇE**
Kapodokya University, Faculty of Architecture, Design and Fine Arts. City and Regional Planning, Ürgüp /Nevşehir, Türkiye.	*Ankara University Faculty of Agriculture, Department of Landscape Architecture, Department of Landscape Architecture, Ankara, Türkiye.*	*Çankaya University, Faculty of Architecture, Dep. of City and Regional Planning, Ankara, Türkiye.*	*Eastern Mediterranean University, The Department of Interior Architecture, Famagusta, North Cyprus.*
"Sustainability and Urbanization" *(Sürdürülebilirlik ve Kentleşme)*	**"Beyond Buildings: Exploring the Interplay of Ecological Dynamics and Urban Spaces"** *(Binaların Ötesinde Ekolojik Dinamikler ile Kentsel Alanların Etkileşimi)*	**"Türkiye Experience Within The Scope of Interdisciplinary New Town Project: Gaziantep Bizimşehir Project"** *(Disiplinlerarası Yeni Şehir Projesi Kapsamında Türkiye Deneyimi:Gaziantep Bizimşehir Projesi)*	**"Reviewing the Layers of Palimpsest City Nicosia through Architectural Heritage"** *(Palimpsest Kent Lefkoşa Katmanlarının Mimari Miras Üzerinden Okunması)*

THURSDAY – May 30, 2024 Cyprus Time 14:00-16:15 (Face to Face) SESSION-1, HALL-St. Hilarion / OTURUM-1, SALON- St. Hilarion MODERATOR: Seden TURAMBERK ÖZERDEN		
TITLE	AUTHORS	AFFILIATION
Smart Hotel Design of the Future: Case of Northern Cyprus	• Soad Abokhamis MOUSAVI • Nafiya GUDEN	Final International University
Architectural Adaptations of Emerging Nomadic Lifestyles in The New Digital Age	• Mulham HRİTANİ • Kasra TALEBIAN • Aminreza IRANMANESH	Final International University
Cultural Heritage Database: Presentation, Interpretation, and Expectations of Digitized Cultural Heritage in Virtual Museums	• Betül GELENGÜL EKİMCİ	İTÜ- TRNC Education and Research Campuses
Advancing Sustainable Tourism Practices in Northern Cyprus: Opportunities and Challenges	• Farzad SAFAEIMANESH • Nafiya GUDEN	Final International University
An Interactive Digital Platform for Preserving Sociocultural Heritage in Yeşilköy Through Local Participation and Crowdsourcing	• Elif Ece ILGAZ • Ahmet GÜN	Istanbul Kültür University
An Investigating the Role of Biomimetic Architecture Developments	• Elnaz FARJAMI • Shabnam GOLKARIAN • Nafiseh ZAMANZADEH	Near East University
Sustainable Pavements at the Neighborhood Scale	• Fatma AŞILIOĞLU • Rukiye Duygu ÇAY	Trakya University
The Role of Urban Green Spaces on Human Health	• Rukiye Duygu ÇAY • Fatma AŞILIOĞLU	Trakya University

THURSDAY – May 30, 2024
Cyprus Time 14:00-16:15
(Face to Face)
SESSION-2, HALL- Kantara / OTURUM-2, SALON- Kantara
MODERATOR: Murat AKTEN

TITLE	AUTHORS	AFFILIATION
The Relationship Between Landscape Architecture and Anthropometry the Case of Isparta Cumhuriyet Street	• Murat AKTEN • Deniz KARAKUYU	Süleyman Demirel University
Moss Wall Panel System in Vertical Plant Applications	• Sibel AKTEN • Şuayip KÖRÜK	Isparta University of Applied Sciences
Aesthetic and functional evaluation of planting design in Bursa Technical University Mimar Sinan Campus	• Onur AKSOY • Kamil ERKEN	Bursa Technical University
Resilient and Sustainable Cities: A Conceptual Framework	• Beyza Mürüvet YİĞİT • Murat AKTEN	Süleyman Demirel University
Evaluating School Spaces as Opportunities for Carbon Footprint Reduction	• Sibel AKTEN • Atila GÜL	Isparta University of Applied Sciences
Determining the Criteria for the Conversion of Existing Education Buildings According to Green Building Standards	• Hatice Eda GÜL • Seniye Ela GÜL • Sibel AKTEN • Atila GÜL	Süleyman Demirel University

THURSDAY – May 30, 2024
Cyprus Time 14:00-16:15
(Face to Face)
SESSION-3, HALL- Buffavento / OTURUM-3, SALON- Buffavento
MODERATOR: Ahmet FIDAN

TITLE	AUTHORS	AFFILIATION
An Innovative Approach in the Relationship between Material and Form: in Glass Fiber Reinforced Concrete (GFRC) Applications	• Esra BAYIR • Pelin KARAÇAR • Aysun Ferrah GÜNER • Zülal Nurdan KORUR	İstanbul Medipol University
Evaluation of BIM Applications in Türkiye	• Elif Hazal ŞENER • Aysun Ferrah GÜNER	Istanbul Medipol University
Floating Cities in Terms of Space Management: Structural, Legal, Administrative and Functional Approach	• Ahmet FIDAN • Pelin KARAÇAR	Ordu University
Evaluation of BIM Education in Architecture Undergraduate Programs Ranked in the Top 10 Based on the Cohe Score System in Türkiye	• Nafia Büşra ERSAVAŞ • Pelin KARAÇAR	İstanbul Medipol University
The Significance of Building Information Modeling (BIM) in Construction Management: A Perspective of Undergraduate Civil Engineering Students	• Gizem ŞIMŞIR • Ahmet TUZ	Istanbul Medipol University
Interaction of Urban Space and Everyday Life	• Seda Kaplan ÇINÇIN	Kocaeli University
Architectural Representation and Presentation of Modern Housing Architecture, 1950's	• Seda Kaplan ÇINÇIN	Kocaeli University
Teaching Sustainable Architectural Design with BIM	• Salih OFLUOĞLU	Antalya Bilim University

THURSDAY – May 30, 2024
Cyprus Time 16:30-18:45
(Face to Face)

SESSION 4, HALL- St. Hilarion / OTURUM-4, SALON- St. Hilarion
MODERATOR: Soad Abokhamis MOUSAVİ

TITLE	AUTHORS	AFFILIATION
Legislation on Energy Efficiency Practices in Buildings Proposal for TRNC	• Kerem AKKAYA	Çanakkale Onsekiz Mart University
Documentation of Earthquake Damages Over the Years and Restoration Recommendations for the Historic Malatya Teze Mosque	• Lale KARATAŞ	Bursa Technical University
Changing Concepts of Temporality and Permanence In 21st-Century Paradigms	• Orhun İNCE • Gülhis DUYGUN	Kocaeli University
A Study on Hygrothermal Performance of Traditional Veneered Timber Framed Exterior Wall in Türkiye	• Seda Nur ALKAN • Fatih YAZICIOĞLU	İstanbul Medipol University
Achieving Sustainable Development Goals (SDGs) via Energy Security through Sustainable Practices in Northern Cyprus	• Shahrzad SAFAEIMANESH • Farzad SAFAEIMANESH	Cyprus Science University
Effects of Anthropogenic Geomorphology on Collective Memory and Space Relationship	• Gülhis DUYGUN • Elif Yeşim ÖZGEN KÖSTEN	Kocaeli University
Experiences From the Disaster Perspective in Architecture	• Orhun İNCE • Gülhis DUYGUN	Kocaeli University
Yoga Tourism as a Type of SIT and Improvement Suggestions: Case of Northern Cyprus	• Naile SOYEL • Mete Ünal GİRGEN	Kyrenia Municipality

THURSDAY – May 30, 2024 Cyprus Time 16:30-18:45 (Face to Face) SESSION-5, HALL-Kantara / OTURUM-5, SALON-Kantara MODERATOR: Tendü Hilal GÖKTUĞ		
TITLE	AUTHORS	AFFILIATION
Adverse Impacts of Recreational Activities on Protected Coastal Ecosystems	• Tendü Hilal GÖKTUĞ	Aydın Adnan Menderes University
A Public Opinion Research for Environmental Impacts of the Aydın Railway Line and Its Planning as a Greenway.	• Burhan EŞLİK • Tendü Hilal GÖKTUĞ	Aydın Adnan Menderes University
Mountain Ecosystem and Recreation Services Examination in the Example of Mount Dedegöl	• Deniz KARAKUYU • Murat AKTEN	Süleyman Demirel University
Evidence-Based Design: An Assessment within the Framework of Landscape Architecture	• Nazlı Deniz ERSÖZ • Gül SAYAN ATANUR	Bursa Technical University
Visual Perception Analysis of 3rd Generation Coffee Houses: 'The Case of Akaretler'	• Serhat ANIKTAR • Elif Nur UYGUR	İstanbul Sabahattin Zaim University
A Children's Playground Proposal Based on Environmental Characteristics and Demographic Structure	• Nazlı Deniz ERSÖZ • Mahshid MIKAEIL	Bursa Technical University
Evaluation of Lake Eğirdir and its Coastal Band within the Scope of Blue-Green Infrastructure	• Hüseyin Batuhan DÜNDAR • Murat AKTEN	Süleyman Demirel University
Are Carbon Market Instruments Created by Neoliberalism Policies a Solution for Reducing Carbon Emissions	• Atila GÜL • İskender Emre GÜL	Süleyman Demirel University

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(Online)
SESSION-6, HALL-1 / OTURUM 6, SALON-1
MODERATOR: Filiz KARAKUŞ

TITLE	AUTHORS	AFFILIATION
Evaluation of Adaptive Reuse of Historical Buildings in Terms of Sustainability: The Case of Bolu Tabaklar Hamam/Bath	• Filiz KARAKUŞ	Ankara Yıldırım Beyazıt University
An Architectural Examination of Historical Water Structures in the Esenler District of Istanbul	• Miskine AKAR • Selvi Burcu GÜLER	Recep Tayyip Erdoğan University
Typological Analysis of The Projection Structure: Sivrihisar Traditional Houses	• Zuhal KARA SARIÇİÇEK • Hicran Hanım HALAÇ	Eskişehir Technical University
Ecological Settlements: The Example of Akpınar Neighborhood	• Ahmet Berk TAHMAZOĞLU • Demet IRKLI ERYILDIZ	Okan University
The Problem of Originality in Historicist Architecture After the 2000s: The Case of Government Mansions	• Elifcan DUYGUN • Rifat Gökhan KOÇYIĞIT	Pamukkale University
The Change of İnegöl City Center from Past to Present and Old Government House Conservation Project	• Seda ÇAKMAK • Zeynep ERES ÖZDOĞAN	Istanbul Technical University
An Inquiry of Traditional Urfa and Ürünlü Built Environment in the Context of Sustainability	• Hasan DOĞAN	Harran University

THURSDAY – May 30, 2024 Cyprus Time 14:00-16:15 (Online) SESSION-7, HALL-2 / OTURUM 7, SALON-2 • MODERATOR: Arzu ISPALAR ÇAHANTIMUR		
TITLE	AUTHORS	AFFILIATION
Historical Evolution of the Furnishings and Textile Features of İzmit Kasr-ı Hümayun	• Ebru ERDOĞAN • Tülay GÜMÜŞER • Gülşah ÜNER	Selcuk University
Reading Bauhaus at the Intersection of Architecture and Weaving	• Tülay GÜMÜŞER • Ebru ERDOĞAN • Büşra ÖZTÜRK	Selcuk University
A Versatisummaryle Look at the Furniture Design Adventure	• Esra ORHAN YILMAZ • Semih ÇINAR • Elif ÖZGEN	Artvin Çoruh University
Vernacular Architecture Strategies for Building Resilience in Informal Settlements of Bursa	• Rengin BECEREN ÖZTÜRK • Arzu ISPALAR ÇAHANTIMUR	Bursa Uludağ University
Evaluation of Traditional Houses in Balıkesir Urban Center for Conservation	• Ayşegül AĞAN	Balıkesir University
Property, Policy and Actor-Oriented Approach to the Classification of Rental Housing	• Muhammed Cemil DOĞAN • Ömür BARKUL	Usak University
An Attempt to Convey the Ekphrastic Space with Artificial Intelligence: Gulliver's Travels	• Meryem Sevde DOĞRUER • Arzu ÖZEN YAVUZ	Niğde Omer Halisdemir University

THURSDAY – May 30, 2024 Cyprus Time 14:00-16:15 (Online) SESSION-8, HALL-3 / OTURUM 8, SALON-3 MODERATOR: Sevgi YILMAZ		
TITLE	AUTHORS	AFFILIATION
Evaluation of the Effects of Wind on Outdoor Thermal Comfort in Rural and Urban Areas	• Mehmet Akif IRMAK • Sevgi YILMAZ • Hasan YILMAZ	Atatürk University
Pedestrian-Friendly Street Design Modeling with Wind Simulations in Cold Regions: A Case Study of Dadaşkent	• Sevgi YILMAZ • Mehmet Akif IRMAK	Atatürk University
Determining Temporal Changes in the Lakes of the Burdur Basin Using Google Earth Engine	• Nuriye Ebru YILDIZ • Barış KAHVECİ	Niğde Ömer Halisdemir University
Evaluation of Intensive Roofs in Energy Efficient Building Design and Their Role in Urban Food Security	• Enes AKDENİZ • Gülsen ÇELEN • Fatma AYDIN	Mimar Sinan Fine Arts University
The Effect of the Use of Undefined Urban Landscape Areas as Urban Agricultural Areas on Urban Aesthetics: Rize Fener Coast Case	• Fatma AYDIN • Enes AKDENİZ	Mimar Sinan Fine Arts University
Determination of Environmental Awareness Levels of University Students Regarding Climate Change: A Case Study of the Faculty of Architecture at Trakya University	• Afranur ÖZDEMİR • Emine KELEŞ	Trakya University
Determining the Carbon Storage Potential in Cities Using Geographic Information Systems and Remote Sensing Techniques: The Case of Ankara	• Nuriye Ebru YILDIZ • Şükran ŞAHİN	Niğde Ömer Halisdemir University
Examining the Influence of Various Pocket Park Designs on Thermal Comfort in Winter Cities Utilizing ENVI-met Analysis	• Sevgi YILMAZ • Başak ERTEM MUTLU	Atatürk University

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SESSION-9, HALL-4 / OTURUM 9, SALON-4
MODERATOR: Zeynep ÜSTÜN ONUR

TITLE	AUTHORS	AFFILIATION
First View Graphic Restoration Project Proposal of the Odina Jome Mosque in Kashkadarya Region	• Mirzo ULUGBEK	Samarkand State University of Architecture and Construction
Development of Preserving Cultural Heritage Sites Methods in a Large City (Using the Example of Moscow)	• E.A. KARFIDOVA • A.P. SIZOV	Institute of Environmental Geoscience Russian Academy of Sciences
Analysis of the Causes of the Abandonment of Telaga Rawa Jaya Tourist Attraction	• Dyah PURBANINGRUM • Hendri Hermawan ADİNUGRAHA • Muhammad Aris SAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
Exploring the Nexus of Technology, Artificial Intelligence, & Architecture	• D. DEEPIKA	R.M.K. Engineering College
The Role of Artificial Intelligence in Optimizing Digital Architectural Designs	• Denada AHMETI RADA	Logos University College
Utilizing Python for Customizable 3D Modeling of Frame Structure Buildings: A Novel Approach to Digital Fabrication and 3D Printing	• Muneeb HASSAN	Pakistan Institute of Engineering and Technology
Using Photogrammetry for Digital Documentation of Heritage Sites and Objects in Jordan	• Fatima HAROUN	The Hashemite University
The Effect of Road Height on Noise Level Under the Canyon Effect	• Derin Hilal BİLMEZ • Ümit ARPACIOĞLU	Mimar Sinan Fine Arts University

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(Online)
SESSION-10, HALL-5/ OTURUM 10 SALON-5
MODERATOR: Rasiha KAYALAR

TITLE	AUTHORS	AFFILIATION
Opportunities for the Use of Artificial Intelligence in Organisations	• Vivien VÁGNER	University of Pannonia
Efficient Deep Neural Network Architecture for Practical Underwater Image Enhancement	• Ouafa. BENAIDA • Abdelhamid. LOUKI • Adda. ALI PACHA	University of Sciences and Technology of Oran Mohamed Boudiaf
Enhancing Academic Library Services: An Overview of Artificial Intelligence Applications	• Mahadevan BALASUBRAMANIYAn • Kannadasan KARUPPAIAH	Vellalar College for Women
The Role of Planning in Managing Material Resources in Small Scale Business Using De-Rahma Table Water Kaura Namoda Zamfara State, Nigeria.	• Sirajo SHEHU	Federal Polytechnic Kaura Namoda
Environmental Pollution's Impact on Life and Possible Solutions	• K. SIVASURIYAN • G. GUNASEKAR • S. GOWRI SHANKAR • V. AJAYDESOUZA • K. PRITHIVIRAJ	Annamalai University
Modeling, Simulation and Analysis of Wind System Based Doubly-Fed Induction Generator(DFIG) :	• Chaima GHERARI	University of Mohamed Cherif Messaadia
Social Economic Harmonization in Multıreligious Communities (Study in Linggoasri Village Indonesia)	• Muhammad SYUKRON • Hendri Hermawan ADİNUGRAHA	UIN K.H. Abdurrahman Wahid Pekalongan
Empowering MSME as a Driver of Economic Growth and Improving Economic's Welfare (Case Study of MSME in Kajen Subdistrict)	• Marshell Bahreiza Dana PUTRA • Hendri Hermawan ADINUGRAHA • Muhammad Aris SAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan

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SESSION-11, HALL-6/ OTURUM 11 SALON-6
MODERATOR: Kamal Kumar ARORA

TITLE	AUTHORS	AFFILIATION
Proficiency of Topical Platelet Rich Plasma with Vacuum Assisted Closure Over Platelet Rich Plasma Alone in Diabetic Foot Ulcers –A Clinical Prospective Comparative Study	• Kamal Kumar ARORA	Government Medical College
Fabrication of Metal-Organic Frameworks Based Supercapacitors and Investigation of its Faradaic and Non-Faradaic Response	• Usama ZAHID • Muhammad Ramzan KHAWAR • Yasir JAVED • Dongwhi CHOI	University of Agriculture
Comparative Study of the Structural and Vibrational Properties of Dy2MMnO6 Double Perovskites with M = Ni, Co, and Zn	• Hamza Ouachtouk Amine HARBi • Chaimaa MOUKHFi • Said AZERBLOU • Youssef NAIMI • El Mostafa TACE	University Hassan II of Casablanca
Effect of Date Seed Powder on Sensory, Nutritional, and Rheological Properties of Moroccan Sourdough Bread	• Elbatoul HANOUNE • Ouahiba LAOUAT • Mohammed Aziz ELHOUMAIZI	University Mohammed First
CaO-HAP Impregnated by ZnAl2O4 as a Potential Catalyst for Biodiesel Production	• Amina OUAHBI • Youness BOUHAJ • Said SAIR • Abdeslam EL BOUARI • Omar TANANE	HASSAN II University
Crop Biofortification Using Transgenic Approaches	• P. KATHIRAVAN • V. AJAYDESOUZA • G. GUNASEKAR • K. PRITHIVIRAJ • Gowri SHANKAR	Annamalai University
Fractional Order Dynamics for HIV/AIDS Transmission with Migration	• Safae L'KIMA • Elhoussine AZROUL • Abdelouahed ALLA HAMOU	Sidi Mohamed Ben Abdellah University
Study of Electronic, Thermodynamic, and Optical Properties of RbScO2: Ab initio Calculations	• S. DAHRI • A. JABAR • L. BAHMAD • L. B. DRISSI • R. AHL LAAMARA	Mohammed V University in Rabat

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(Online)
SESSION-12, HALL-7 / OTURUM 12, SALON-7
MODERATOR: Slobodan POPOVIĆ

TITLE	AUTHORS	AFFILIATION
Production and Characterization of Carbon Nanotubes from Biochar Under Microwave Irradiation.	• Faisal NAZIR	The University of Agriculture
The Significance of Transformation of the Banking System in Developing Countries Like the Republic of Serbia	• Lutovac JELEN • Slobodan POPOVIĆ	Megatrend University
Internal Control in the Work of the Financial Sector and the Real Economy Sector of Small Economies	• Slobodan POPOVIĆ • Lutovac JELENA	Megatrend University
Generation of Hydrogen Using Solar Photoelectrochemical Techniques with Dye Sensitizers.	• Wadiae EL BAHRAMI • Hassan MABRAK • IMANE BOUMANCHAR • YOUSSEF NAIMI	Hassan II University of Casablanca
Strengthening Corporate Governance via Internal Control	• Mohammed Saci FERDIA • Aida KAMMOUN	University of Sfax
Analysis of Implementation of Personal Income Tax (Pph21) in an Islamic Economic Perspective	• Lisna Nisa SAVILA • Hendri Hermawan ADİNUGRAHA	UIN K.H. Abdurrahman Wahid Pekalongan
Practical and Rapid Synthesis of Various Chromene-Based Pharmaceutical Products, Assisted by Ag@Co3O4/Alginate as a Heterogeneous Catalyst, Biodegradability, and Efficacy	• Taoufyk AZZEDDINE • Benhadria LAHOUCINE • Rezzouq ASIYA • Mahfoud AGUNAOU Lahoucine BAHSIS	Hassan II University

THURSDAY – May 30, 2024 Cyprus Time 16:30-18:00 (Online)		
SESSION-13, HALL-1 / OTURUM 13, SALON-1 MODERATOR: Ahmet Cüneyd DİRİ		
TITLE	AUTHORS	AFFILIATION
Evaluation of the Carbon Footprint of Thermal Insulation Materials Used in Building Envelopes within the Building Life Cycle	• Ahmet Cüneyd DİRİ	Mimar Sinan Fine Arts University
Field Study on Determining the Impact of Design Decisions on Energy Efficiency at Settlement Scale	• Ceren Aydan NASIR • Elif ÖZER YÜKSEL • Seher GÜZELÇOBAN MAYUK	Gebze Technical University
Comparative Analysis of Life Cycle Assessment (LCA) Software	• Neriman Gül ÇELEBİ • Ümit ARPACIOĞLU	Mimar Sinan Fine Arts University,
A Research About Life Cycle Assessment of Inorganic Based of Binders in Terms of Sustainability	• Ecem KÖŞÜRGELİ • Seden ACUN ÖZGÜNLER	Final International University
Building Anatomy: Impact of Internal and External Factors on Building Design; Production and Analysis	• Neslihan Efsa ÖZÇELİK • Murat SÖNMEZ	TOBB Economy and Technology University
An Examination on Sustainability in Graduate Thesis from the Perspective of Industrial Design	• Ege KAYA KÖSE	Ankara Yıldırım Beyazıt University
Multigenerational Houses and Intergenerational Housing Typology	Dicle ÖZAVCI	Siirt University
The Effect of Environmental Design and Architecture on Crime Prevention	Dicle ÖZAVCI	Siirt University

THURSDAY – May 30, 2024 Cyprus Time 16:30-18:00 (Online) SESSION-14, HALL-2 / OTURUM 14, SALON-2 • MODERATOR: Öner DEMİREL		
TITLE	AUTHORS	AFFILIATION
A Model Trial for Creating a Site Selection Model for Urban Forests in Our Country: Kırıkkale Urban Forest	• Öner DEMIREL • Meryem Bihter BINGÜL BULUT • Bilgenur AK • Tuba Gizem AYDOĞAN	Kırıkkale University
From the Cladding Towards the Skin: A Biomimetic Perspective on the Building Envelope	• Zelal CINAR	TOBB University of Economics and Technology
Walkability on University Campuses: A Development Project at Süleyman Demirel University	• Gizem DİNÇ • Gamze VERGİSİZ	Süleyman Demirel University
Solar-Related Performance-Oriented Digital Workflow	• Sercan DENİZ • Zelal ÇINAR	TOBB Economy and Technology University
Examination of the City Image Components and Sign Elements of Balat District Through Instagram Users	• Hicran Hanım HALAÇ • Ruken AVCI • Yasemin AKCAKAYA	Eskişehir Technical University
Accreditation of Graduate Education Programs and the First Steps Taken on This Topic in Our Country	• Öner DEMİREL • Saye Nihan ÇABUK • Şükran ŞAHİN • Alper ÇABUK • Sultan Sevinç KURT KONAKOĞLU	Amasya University
Accessibility of Traditional Buildings for Elderly Individuals: The Case of Tarsus Burhanoğlu Mansion	• Sena SOYUPAK • Gökhan UŞMA	Adana Alparslan Türkeş Science and Technology University
Examining Material Use in Architectural Design from a Biomimetic Perspective	• Menşure Kübra MÜEZZİNOĞLU • Egecan ALP	Fırat University

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SESSION-15, HALL-3 / OTURUM 15, SALON-3
• MODERATOR: Hasan YILMAZ

TITLE	AUTHORS	AFFILIATION
Involving Public Participation and Determining Preferences in Planning and Designing Noise Mitigation Barriers Along the Main Transportation Route in the City Center of Erzurum	• Ayşegül AKSU • Hasan YILMAZ	Atatürk University
The Importance of Bioclimatic Comfort in Ecopsychology Approach	• Ahmet Erkan METİN • Atila GÜL	Uşak University
The Role of Urban Planning in Controlling Noise Pollution from Road Transportation	• Barış KAHVECİ • Muzaffer YÜCEL	Niğde Ömer Halisdemir University
Effects of Material Selection on Urban Stormwater Management	• Nilay MISIRLI • Elif Ebru ŞİŞMAN	Trakya Üniversitesi
Investigation of the Role of Roofs in Rainwater Harvesting: Recep Tayyip Erdoğan University, Rize	• Ayça AKKAN ÇAVDAR • Esra LAKOT ALEMDAĞ	Recep Tayyip Erdoğan University
Exploring the Relationship Between Urban Resilience and Landscape Architecture	• Alev AD • Ömer Faruk UZUN	Sakarya University of Applied Science
An Evaluation on the Relationship Between Spatial Planning and Flood Disaster: The Case of Bozkurt, Kastamonu	• Zarife DEMİREZEN • Yasin BEKTAŞ	Erciyes University
Evaluation of the Sustainable Design Concept Through Architectural Project Competitions	• Nilay AYKAN • Esra LAKOT ALEMDAĞ	Recep Tayyip Erdoğan University

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SESSION-16, HALL-4 / OTURUM 16, SALON-4
• MODERATOR: Kasra TALEBIAN

TITLE	AUTHORS	AFFILIATION
Exploring the Compromise Value of Azimuth Angle for Thermal and Visual Comfort in a Building in the Temperate Dry Climate of Nigeria	• Muhammad Aminu MUSA	Ahmadu Bello University
A Framework for Optimising Passive Indoor Thermal and Visual Comfort in Single-Banked Office Buildings in the Temperate Dry Climate of Nigeria	• Muhammad Aminu MUSA • Abubakar Sadiq SALISU	Ahmadu Bello University
A Model for Assessing Urban Texture in Terms of Energy Efficiency and Thermal Comfort	• Mehrdad KARIMIMOSHAVER	Bu-Ali Sina University
Climate Change and Drought Vulnerability in Northeast Algeria: A Data-Driven Approach to Risk Assessment and Management	• Abderrahmane ZIARI • Abderrahmane MEDJERAB	University of Sciences and Technology Houari Boumediene Algeriers
How Climate Change Affects Agricultural Production	• K.R. PADMA • K.R. DON	Sri Padmavati Mahila Visvavidyalayam (Women's) University
Impact of Contrasting Climate Conditions on Pomegranate Development and Productivity: Implications for Breeding and Cultivar Selection in Colder Environments	• Atman ADIBA • Abdelmajid HADDIOUI • Rachid RAZOUK • Hicham OUHAKKi • Anas HAMDANI • Hakim OUTGHOULIASt • Jamal CHARAFI	National Institute of Agricultural Research
Reservoir Simulation of Teapot Dome Classic Reservoir: Comparison of Water Flooding and Gas Flooding	• Azamat BUKAYEV • Aisha TEMIRKHAN • Masoud RIAZIA	Nazarbayev University
Renewable Resilience: Promoting a Greener World with Sustainable Energy Strategies	• Ashraful AMIN • Shahareyar EMON • Jahid Hasan RANA • Abdul Kader JELANE	University of Rajshahi

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SESSION-17, HALL-5 / OTURUM 17, SALON-5 • MODERATOR: Deniz HASIRCI		
TITLE	AUTHORS	AFFILIATION
The Bio-Interior: Holistic Biophilia in the Interior Design Studio	• Deniz HASIRCI • Silvia ROLLA • Gözde Damla TURHAN-HASKARA • İdil BAKIR KÜÇÜKKAYA	Izmir University of Economics
Examining Corporate Identity in Interior Design Through Residences	• Mehmethan ÖZERDEM • Mehmet NORASLI	Selçuk University
Changes in the Exhibition Styles of Chicago Architecture Biennials	• İrem Cansu YALÇIN • Zeynep SARAÇ • Gürkan TOPALOĞLU	Ataturk University
A Review Study on the Acoustics of Contemporary Mosques	• Fatma YELKENCİ SERT	Dokuz Eylul University
Analysis of Burdur Cumhuriyet Square with Space Syntax Method	• Tuğba BALKIS • Berna GÜÇ	Süleyman Demirel University
An Example of Sports Facilities in the Ottoman Empire: Robert College Gymnasium Building	• Tuğba YILMAZ • Zeynep Gül ÜNAL	Yıldız Technical University
A Comprehensive Study on the Visual Comfort Conditions of Historical Mosque Buildings	• Fatma YELKENCİ SERT	Dokuz Eylul University
Representation Place of the Republic: Reading the Educational Buildings of Isparta City Istasyon Street Through Urban Memory	• Nurcihan AKDAĞ • Şefika Gülin BEYHAN	Süleyman Demirel University

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SESSION-18, HALL-6/ OTURUM 18, SALON-6
MODERATOR: Pelin FIRAT ÖRS

TITLE	AUTHORS	AFFILIATION
Leveraging Machine Learning for Early-Stage Energy Efficiency in Building Design: A Comprehensive Study on Predictive Models	• Hilab MANAL	University Mohamed Khider
Harmonizing Efficiency and Comfort: Unveiling Optimal Genetic Algorithm Parameters for Sustainable Building Design	• Hilab MANAL	University Mohamed Khider
Townhouse Design Solves the Problems of Tropical Climate, Save Energy and Ensure Thermal Comfort	• Bui Man Nghi • Dao Thanh Tam	University of Architecture Ho Chi Minh City
Advancements in Intelligent Optimization for Building Design: A Comprehensive Overview of Nature-Inspired Methods	• Hilab MANAL	University Mohamed Khider
Thermal Comfort in Commercial Buildings: A Comprehensive Study on Building Performance and Environmental Impact	• Hilab MANAL	University Mohamed Khider
Evaluating the Performance of Various Shading Devices on Daylighting For Visual Comfort in the Temperate Dry Climate of Nigeria	• Muhammad Aminu Musa • Usman, Abdullahi Muhammad	Ahmadu Bello University
Artificial Intelligence in Architecture for Energy Efficiency and Sustainability Objectives: Building Information Modeling, Virtual Reality, and Augmented Reality for Imaginative and Strategic Building Design and Layout	• Cristina Raluca Gh. Popescu • Gheorghe N. Popescu	University of Bucharest

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SESSION-19, HALL-7 / OTURUM 19, SALON-7
• MODERATOR: Abdelmoutalib BENFRID

TITLE	AUTHORS	AFFILIATION
Efficacy of Aloe Vera Supplemented Canola Meal Based Diets on Growth Performance, Nutrient Digestibility and Carcass Composition of Catla Catla Fingerlings	• Muhammad AMJAD • Syed Makhdoom HUSSAIN • Zeeshan YOUSAF • Muhammad MAHMOOD • Adan NAEEM • Eman NAMEEM	Government College University
Cancer Data Analysis with Data Mining Algorith	• Irshad ULLAH • Aamna Saleem KHAN	Concordia College and University Delaware
The Voigt Model is Used to Homogenize High-Performance Concrete by Adding Fine Particles of Sheep Bone to Replace Fine Sand and Minimize Porosity.	• Abdelmoutalib BENFRID • Mohamed BACHIR BOUIADJRA	Université Djillali Liabes
Sımulatıon Model of a Sıngle-Phase Inverter Usıng SPWM Unıpolar Technıque	• Ramzi EL IDRISSI • Abdelkabir BACHA • Fatima LMAI	Hassan II University
Socioeconomics Factors Affecting Access to Medications and Pharmacy Services	• R. VIDHYALAKSHMi • K. RAJAGANAPATHY	Bharath Institute Of Higher Education And Research
Investigation of Structural, Microstructural and Optical Properties of ZnO, Zn0.90Co0.05M0.05O (M= Na, Al, Cd, Cu) Thin Films by USP Method.	• Sabrina ROGUAI • Abdelkader DJELLOUL	University of Abbes Laghrour Khenchela
Formulation and Evaluation of Anti Diabetic Activity of Herbal Anti Diabetic Syrup with Fenugreek	• Hina KHALID • Ayesha GHIAS • Aisha Ghulam MUSTAFA • M. HUZAIFA ALI • Mishal SHOAIB DAR • Fareeha NAWAB	Hajvery University
Regression Analysis of Hospital Statistics: A Case Study of Akure Metropolis	• O. A. OLADIMEJI • S. T, OGUNBANWO • O. T, OYEJIDE • O. O. OYEBODE	Federal Polytechnic

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SESSION-20, HALL-1 / OTURUM 20, SALON-1
MODERATOR: Floriana ZUCARO

TITLE	AUTHORS	AFFILIATION
Comparative Analysis of Urban Land Cover Changes: A Case Study of İzmir, Türkiye, and Naples, Italy	• Floriana ZUCARO • Gizem DİNÇ • Atila GÜL	University of Naples Federico II
Analyzing Accessibility and Infrastructure of Cultural Heritage Sites for Visitors with Disabilities	• Nastaran DELJAVAN • Elif BİLMİŞOĞLU	KTO Karatay University
Investigation Heritage Conservation in Syria: Challenges and Strategies for Conserving the Ancient Palmyra Heritage Building	• Monzer JAGHLI • Shabnam GOLKARIAN	Near East University
Post-War Destruction and Rehabilitation Process: The Example of Syria-Aleppo	• Gülferah ÇORAPÇIOĞLU • Rüya AZİZE	Istanbul Arel University
Strategies for Urban Renewal in Revitalizing Tudun Ilu Neighborhood, Kaduna, Nigeria	• Aliyu HASSAn	Nigerian Air Force
Investigation of Sustainability Based Assessment Tools in Terms of Urban Landscape Quality	• Wajiha WAHEED	Allama Iqbal Open Univervity
Urban Planning	• Mustapha Imam MUHAMMAD	Bayero University
Historical Environment Protection Plans and Zoning Applications Antalya Province, İbradi District, Ormana Example	• Hüseyin CENGİZ	Istanbul Commerce University

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SESSION-21, HALL-2 / OTURUM 21, SALON-2
MODERATOR: Şükran ŞAHİN

TITLE	AUTHORS	AFFILIATION
Ecological and Social Significance of Green Bridge Applications in Existing Urban Matrix: A Case Study in Design	• Şükran ŞAHİN	Ankara University
Urban Transformation in the View of Landscape Urbanism: Cases from İstanbul	• Ayşe Betül ÇUFALI • Emine Figen DILEK	Karabuk University
The Correlation Between Perceived Naturalness and User Typology in Urban Green Spaces	• Nida KURAK • Serap YILMAZ	Karadeniz Technical University
The Potential for the Use of Phase Change Materials in Diverse Climate Zones Across Türkiye	• Rana UZUN • Elif ÖZER YÜKSEL	Gebze Technical University
The Effects of Natural Environments on Chıldren's Learning	• Serap YILMAZ • Nida KURAK	Karadeniz Technical University
“Material Choice” in Architectural Design as “Signature”: An Analysis Through the Materials Identified with Architects and Their Buildings”	• Serkan Yaşar ERDİNÇ • Ürün BİÇER	İstanbul Beykent Üniversitesi
The Effects of Glycine Betaine and Nitrogen Applications on Turfgrass Performance of Zoysia japonica	• Mert ÇAKIR • Meryem KURT • Songül SEVER MUTLU	Süleyman Demirel University

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SESSION-22, HALL-3 / OTURUM 22, SALON-3
MODERATOR: Pooya LOTFABAD

TITLE	AUTHORS	AFFILIATION
A Study to Understand the Management and Design of Green Buildings for Sustainable Development in the City of Bangalore, India	• Ravikeerthi Jangamakote VARADARAJU	Presidency College
The Role of Architecture in Sustainable Development	• Aminu Danrimi MAIKUDI	Studied at Kano University of Science & Technology Wudil - KUST
Cultural Heritage Protection and Historic Building Stability: From Geometrical Formation to Aesthetic	• Jumana Ahmad AQEEL • Naif Adel HADDAD	Hashemite University
Smart Sustainable Cities for Happier People as Envisioned by United Nations Economic Commission for Europe: Fostering Harmonious Societies, Improving Quality of Life, and Advocating Innovative Financing Approach	• Cristina Raluca Gh. POPESCU • Gheorghe N. POPESCU	University of Bucharest
Understanding Architecture: More Than Just Buildings.	• Wahaj HAIDER	Ahlul Bayt International University
Exploring Midjourney Parameters in Architectural Design: Chaos, Weird, and Stylize Parameters	• Merve GÖZEL • Changbae PARK	Pusan National University
A Method to Evaluate the Impact of Tall Residential Buildings on Cities	• Mehrdad KARIMIMOSHAVER • Banu ÖZKAZANÇ	Bu-Ali Sina University
Response of High Rise Building Against Earthquake Force and Wind Force Under Different Soil Conditions	• Subhashish DEY	Gudlavalleru Engineering College

FRIDAY – May 31, 2024
Cyprus Time 08:30-10:45
(Online)
SESSION-23, HALL-4/ OTURUM 23, SALON-4
MODERATOR: Ufuk ÇOŞGUN

TITLE	AUTHORS	AFFILIATION
Evaluation of Marketing Wood Production in Forestry	• Ufuk COŞGUN • Damla YILDIZ	Karabuk University
Exploring Teachers' Ecological Footprint Awareness	• Ömer ÇELİKKOL • Aytekin TOKGÖZ	Süleyman Demirel University
Evaluation of Employees' Perception of Workload and Job Satisfaction in Protected Areas	• Saime DEMİRTAŞ • Ufuk COŞGUN	Karabuk University
Determination of the Natural and Cultural Resource Values of the Turkish Republic of Cyprus in Terms of Tourism and Suggestions for Sustainable Management	• Sibel AKTEN • Gülsüm KASAP	Isparta University of Applied Sciences
Sustainable Ecotourism Policies in Forest Areas and Legislative Evaluations from Past to Present	• Damla YILDIZ • Ufuk COŞGUN	Karabuk University
Perception and Communication Awareness in Plants	• İlayda Merve İLERİ • Atila GÜL	Süleyman Demirel University
Evaluation of Metaphorical Perceptions of Ecotourism and Forest Park	• Damla YILDIZ • Ufuk COŞGUN • Hasan GÜNEŞ	Karabuk University
Local Identity Values and Analysis of Demre (Antalya) Region	• Atila Gül • Dilara ERDOĞAN	Süleyman Demirel University

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(Online)

SESSION-24, HALL-5 / OTURUM 24, SALON-5
MODERATOR: Halime GÖZLÜKAYA

TITLE	AUTHORS	AFFILIATION
Importance of Effective Leadership to Avoid Accidents at Construction Sites	• Subhojit CHATTARAJ • Sandeepan SAHA • Suman HALDER • Sudipta Naskar Alok DAS	Greater Kolkata College of Engineering and Management
Analysis of the Effect of Economic Growth on Poverty Levels in Pekalongan Regency	• KARTIKASARI • Muhammad SHULTHONI • Drajat STIAWAN	UIN K. H. Abdurrahman Wahid Pekalongan
Approaches for Analyzing Traffic Accident: A Comprehensive Overview	• Khanh Giang LE	University of Transport and Communications
Smart Traffic Systems Management in Connected Communities: Enhancing Safety and Mobility	• Khanh Giang LE	University of Transport and Communications
A Solution of Multi Objective Transportation Problem Under Uncertain Environments	• Mohammad NABEEL • Wajahat ALI • Sheema SADIA • Usman AKBAR	Aligarh Muslim University
IKN Tests the Technology Resilience of Smart Transportation Systems	• Indah KHOIRUNISA • Ade GUNAWAN • Santi Nailul IZATY	UIN K.H. Abdurrahman wahid Pekalongan
Noise Pollution Monitoring and Noise Mapping at Rajshahi University, Bangladesh	• Alamgir HASAN • Abul Kalam AZAD • KAMRUZZAMAN • MONIRUZZAMAN	Rajshahi University,
Antibiotic Pollution in Aquatic Environments: Understanding Environmental Impacts	• Priyanjali KAUSHAL • Aliza DANISH • Pushpanjali MAURYA • GULSHI • Shama AKHTAR • Mohd ZEESHAN • Abdul Rahman KHAN • Saimah KHAN	Integral University

FRIDAY– May 31, 2024
Cyprus Time 08:30-10:45
(Online)
SESSION-25, HALL-6 / OTURUM 25, SALON-6
MODERATOR: Wasiu Abiodun MAKİNDE

TITLE	AUTHORS	AFFILIATION
Fuzzy Logic with Artificial Intelligence in Improving Service Quality in e-government Applications	• Mohammad Ali AL QUDAH • Leyla MURADKHANLI • Mutaz Mohammed ABUHASHISH	Khazar University
Economic Survey of Household Expenditure Pattern during COVID-19 Pandemic in Ogun State, Nigeria	• Daud, S.A. • Amao, O. • Aderibigbe, I.A. • Sulaimon, I.O • Omotoso, A.B.	North-West University
Economic Problems of Society in the Perspective of Islamic Studies	• Nur HİDAYAH • Hendri Hermawan ADİNUGRAHA • Muhammad Aris SAFİ'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
Compensation Management and Employee Performance in the Federal Polytechnic, Ilaro, Nigeria	• Wasiu Abiodun MAKINDE	the Federal Polytechnic
The Role of Fiscal Policy in Reducing Poverty in Indonesia	• Neki BAROKAH • Hendri Hermawan ADINUGRAHA • M. Aris SYAFI'I • Happy Sista DEVI	UIN K.H. Abdurrahman Wahid Pekalongan
Ijarah and Implementation in Sharia Banking	• LAILATUSSIFA • Hendri Hermawan ADINUGRAHA • Muhammad Aris SYAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
Healthcare Financing in the Context of South Asian Countries	• Azhar JAN • Meenakshi GUPTA • Sheikh Aftaab-Ul-MAROOF	Shri Mata Vaishno Devi University
The Impact of the Growth of Sharia Insurance on the Indonesian Economy	• Arziyah Windri WINDASARI • Hendri Hermawan ADINUGRAHA • M.Aris SYAFI'I • Happy Sista DEVI	UIN K.H. Abdurrahman Wahid Pekalongan

FRIDAY– May 31, 2024
Cyprus Time 11:00-13:15
(Online)
SESSION-26, HALL-1/ OTURUM 26, SALON-1
MODERATOR: Sultan Sevinç KURT KONAKOĞLU

TITLE	AUTHORS	AFFILIATION
A Bibliometric Analysis on the Use of Unmanned Aerial Vehicle in Land Use/Land Cover Studies	• Berkant KONAKOĞLU • Kadir Tolga ÇELİK • Sultan Sevinç KURT KONAKOĞLU	Amasya University
Structural System Optimization on Planets with Different Gravitational Accelerations	• Serra ÇELİK KIRATLI • Ali Osman KURUŞCU	Yıldız Technical University
Post Application Problems and Solution Methods in Wood-Based Building Envelope Materials	• Bahadır KIR • Zehra Canan GİRGİN	Yildiz Technical University
A Bibliometric Introduction to Architectural Research, Including the Words of "Wood" and "Carbon" Together	• Z. Sevgen PERKER • Merve Nur KORKUSUZ	Bursa Uludag University
Development Process of Iron Material Usage in Architectural Applications from Past to Present	• Gökhan MERMİ • Ümit ARPACIOĞLU	Istanbul Nişantaşı University
Energy Analysis of Natural Insulation Materials in Building Exterior Wall for Eco-Efficient Retrofits	• İlknur ARI • Figen BALO	Fırat University
Energy Efficiency of Building Envelopes Designed with Natural Stone and Foam Based Insulation Alternatives	• İlknur ARI • Figen BALO	Fırat University
Institutionalization of Contemporary Building Materials in Turkish Architecture: State Organizations and Regulations	• Sümeyye KORKMAZ • Zafer SAĞDIÇ	Yıldız Technical University

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(Online)

SESSION-27, HALL-2 / OTURUM 27, SALON-2

MODERATOR: Ümit ARPACIOĞLU

TITLE	AUTHORS	AFFILIATION
The Owning of Public Space: The Impact of Play on Urban Public Spaces in the Frankenberger Neighbourhood	• Pelin Işık • Christa Reicher	RWTH Aachen University
Exploring Playgrounds: The Innovative Design of Aldo Van Eyck and Isamu Noguchi	• Gizem BÜYÜCEK	Konya Technical University
Le Corbusier and His Influence on Sustainable Architecture	• Enes ÖNER • Şeyda EMEKÇİ	Ankara Yıldırım Beyazıt University
V. Chicago Architecture Biennial: Examining the Relationship between Discourse and Content	• Esmanur YAVUZ • Sena ŞEN • Gürkan TOPALOĞLU	Karadeniz Teknik Üniversitesi
Reading the New through the Traces of the Old: Palimpsest Space Şerefiye Cistern	• Zeynep TANRIVERDİ	Fatih Sultan Mehmet Vakıf Üniversitesi
Evaluation of Gaziantep Old Government House in the Context of Critical Regionalism	• Mine ÖZOVACI KILIÇ • Nur URFALIOĞLU	Yıldız Teknik University
Examining “Repetition” as a Design Attitude within the Framework of the Philosophy of Immanence: Creative Repetition in the Designs of Bernard Cache and Greg Lynn	• Çiğdem POLATOĞLU • Nehir SANRI DOĞAN	Yıldız Technical University
Architectural Transformation in Kars After 1877-78: Effects of Russian Rule and Housing Architecture	• Gül Helin ALINAK • Elif Özlem AYDIN	Gebze Teknik Üniversitesi

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(Online)

SESSION-28, HALL-3/ OTURUM 28, SALON-3
MODERATOR: H. Berk TÜRKER

TITLE	AUTHORS	AFFILIATION
Thermodynamic Optimization of Tb–Ni Binary System Supported by Dft Calculations	• Z. RAHOU • D. MOUSTAINe • Y. BEN-ALI • A. HALLAOUI	Sidi Mohamed Ben Abdellah University
Managerial Coaching and Subordinates' Work Behavior: Empirical Study At Malaysia's Public Department	• Nur Izzaty MOHAMAd • Suhaila ABDULLAH	Universiti Sains Malaysia
A Study on Biosorbents for the Removal Ofchloride Ion from Water	• Subhashish DEY	Gudlavalleru Engineering College
Study of Ti3C2/CNT Nanocomposite-Based Flexible Paper Electrode for Supercapacitor Applications	• Chetan Mainak BASU • Vijay KUMAR • Sunil KUMAR • Jatinder GARG	G.D. Goenka University
Improving Performance: Evaluating and Optimizing a 70 MW Thermal Power Plant through Energy Audits	• Deepak RATHOD • Ankit TIWARI	Shri Vaishnav Institute of Technology and Science
Mission Drift of Microfinance Institutions in India: Is it real?	• Anupama RAJPUt • Bhawna RAJPUT	University of Delhi
Optimal Power Conversion Efficiency of Perovskite Solar Cells	• Aisha SHAIKH • Pervez Hameed SHAIKH • Shoaib Ahmed KHATRI	Mehran University of Engineering & Technology
Radiographic Techniques for Estimating Dental Age: A Comparative Study	• Muhammad Salman KHA • Irfan ULLAH • Saskia L NASROEN • Ani Melani MASKOEN • ERLI SARILITA	University of Indonesia

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(Online)

SESSION-29, HALL-4/ OTURUM 29, SALON-4
MODERATOR: Ahmet Erkan METİN

TITLE	AUTHORS	AFFILIATION
Experimental Investigations on Performance of Biomedical Ash in Concrete	• Subhashish DEY	Civil Engineering Department, Gudlavalleru Engineering College
A Novel Technology for Ecological Pavement and Asphalt Production: Mine and Industrial Waste Plant (CDMI)	• Zakaria MAD ANI	Valbiom Cluster Morocco
Mechanical Properties of Sandcrete Blocks Used for Building Construction in Ilaro Township of Ogun State, Nigeria	• Olugbenga Babajide SOYEMI • Elizabeth Tofunmi OJELABI	The Federal Polytechnic
Ceramic tile Composition and Technological Properties Based on Moroccan Dark Clays	• Ayoub IMGIRNE • Youssef ARKAME • Achraf HARRATI • Abdelilah EL HADDAR • Aboubakar MOUSTAPHA • Chaouki SADIK	HASSAN II University
Study of Insulation Scenarios Using an Ecological Material as a Sustainable Solution for Comfortable and Efficient Buildings: The Case of Moroccan Buildings	• Hicham KADDOURI • Ayoub BOUCHARK • Abderrahim ABIDOUCHE	Abdelmalek Essaadi University
Laboratory Investigation on Brittleness Performances of Reinforced Masonry Cement Mortar Containing Recycled Glass Waste	• Benyahia AMAR	University of Blida
Assessment of the Properties of Innovative Cement Mortars Produced from Recycled Powder	• Benyahia AMAR • Salhi MOHAMED • Boubekeur TOUFIK	University of Saad Dahlab Blida 1
Comparison Effect of Single and Combined Applications of Municipal Sewage Sludge and Triple Superphosphate on Some Growth Traits of Quinoa under Saline Condition	• Hadis HATAMI • Hossein PARVIZI • Amir PARNIAN • Hossein BEYRAMI	National Salinity Research Center

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(Online)
SESSION-30, HALL-5/ OTURUM 30, SALON-5
MODERATOR: Fedwa BEGHDADI

TITLE	AUTHORS	AFFILIATION
Removal of Pharmaceutical Drugs from Binary Mixtures by Use of Nanocomposite: Experimental and Molecular Modeling Study	• SALAA Fahima • Benabbou Asmae • Medjdoub Aicha • Khelifa Amine	Université de Mostaganem
Some Natural Isolated Compounds as Anticancer Agents	• B. Pharm A. • Dinessh BABU	Bharath Institute Of Higher Education And Research Chennai
The Algerian Desert is a Rich Source of Actinobacteria with Important Biotechnological Activities	• Fedwa BEGHDADI • El-Hadj DRICHE	Hassiba Benbouali University of Chlef
Green Tea –An Antioxidant Mystic Herb	• B. Pharm • A. DINESH BABU	Bharath Institute Of Higher Education And Research Chennai
Fire Blight Disease is a tThreat to the Crop of Apple and Pear Trees	• Fedwa BEGHDADI • El-Hadj DRICHE	Hassiba Benbouali University of Chlef
Isolation and identification of actinobacteria from Algerian Saharan Soil	• Fedwa BEGHDADI • El-Hadj DRICHE	Hassiba Benbouali University of Chlef
Effect of Chromium (Cr) on Phase Transformation Behavior of Fe-20Mn-6Si Shape Memory Alloy	• Junaid KHAN • Rana Atta ur Rahman • Shahid MEHMOOD	University of Engineering and Technology
Numerical Simulation for the Thermal and Solute Analysis of Unsteady Non-Newtonian on the Oscillating Surface with Natura Convection	• T. SALAHUDDIN • Muhammad AWAIS	Mirpur University of Science and Technology

FRIDAY– May 31, 2024 Cyprus Time 11:00-13:15 (Online)		
SESSION-31, HALL-6/ OTURUM 31, SALON-6 MODERATOR: Irfan MUSTAFA		
TITLE	AUTHORS	AFFILIATION
Synthesis and Characterization of Silica-Chitosan Decorated Magnetic Nanostructure for Wastewater Treatment	• Syed Anam Shaheen ABBAS SHAH • Muhammad SHOAIB • Muhammad YASIN NAZ • Shazia SHUKRULLAH	University of Agriculture Faisalabad
The Biological Activity of Mesoporous Materials	• Boughedir NADIA	Université de Tlemcen
Exploring Chat-GPT'S Pivotal Role in Shaping the Landscape of Industry 4.0	• Zohaib Hassan SAIN	Superior University
A Theoretical Analysis of Fe2O3-C2H6O2 based Ferrofluid Flow through a Permeable Moving Wedge with Non-Linear Magnetic Field	• Irfan MUSTAFA	Allama Iqbal Open University
The Influence of Local Own-Source Revenue, General Allocation Funds, and Special Allocation Funds on Economic Growth in 15 Districts/Municipalities in West Java Province in 2021-2022	• Nafisah NURSAFANAH • Hendri Hermawan ADINUGRAHA • Muhammad Aris SYAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
Risk Minimization with the Help of Computer Systems	• Aamna Saleem KHAN • Irshad ULLAH	Concordia College and University Delaware
Role of Nanorobotics in Healthcare	• Priyanshi GOYAL	Mangalayatan University
Conservation and Rehabilitation of the Roman Aqueduct of Gadara, the Ancient World Longest Aqueduct System	• Ziad Al SAAD	Yarmouk University-Jordan

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SESSION-32, HALL-1/ OTURUM 32, SALON-1
MODERATOR: Niyazi Uğur KOÇKAL

TITLE	AUTHORS	AFFILIATION
The Effect of Plant-Based Extract-Containing Mortars Used in Different Ratios on Performance	• Seda TURAN • Nazlı İpek KUL GÜL • Niyazi Uğur KOÇKAL • Fatih ÖZBAŞ • Selcan KARAKUŞ • Nevin TAŞALTIN	Antalya Belek University
A Research on the Usage Potential of Natural Compounds for the Protection of Wood against Fungi Problems in the Context of Eco-Friendly Wood Preservation Applications	• Selvi Burcu GÜLER • Seden ACUN ÖZGÜNLER	Istanbul Technical University
Investigation of Properties of Mortars Including Plant Extracts as a Waste	• Nazlı İpek KUL GÜL • Seda TURAN • Niyazi Uğur KOÇKAL • Fatih ÖZBAŞ • Selcan KARAKUŞ • Nevin TAŞALTIN	Antalya Belek University
How Can Architectural History Courses Be Made More Attractive: An Alternative Syllabus	• Cemile Feyzan ŞİMŞEK	Ankara Yıldırım Beyazıt University
The Effect of Fly Ash Aggregate Produced by Cold Bonding Method on Mortar Properties	• Niyazi Uğur KOÇKAL • Nazmiye KELEŞ	Akdeniz University
Comparison of the Production and Usage Performance of Container Structures and Earth Structures for Temporary Building	• Evrim SOLHAN • Seden ACUN ÖZGÜNLER	Mimar Sinan Fine Art University
Evaluation of the Effect of Biopolymer Additives on the Performance Properties of Earth Plaster	• Münevver Şeyda KÜÇÜKŞAKAL • Seden ACUN ÖZGÜNLER	Istanbul Technical University
Recreating Parts Produced on 3D Printers with Generative Design	• İskender Emre GÜL • Niyazi Uğur KOÇKAL	Akdeniz University

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SESSION-33, HALL-2/ OTURUM 33, SALON-2
MODERATOR: Şirin Gülcen EREN

TITLE	AUTHORS	AFFILIATION
Principles of Post-Disaster Urban Reconstruction and Planning	• Burcu GÜN • Şirin Gülcen EREN	Süleyman Demirel University
Urban Planning of Green Space as Tool of Oppression	• Abdurrahman MOHAMED • Salwa ABEDELAL	Antalya Bilim University
Gauthier Linear City for Urban Development in Gaza, Palestine	• Abdurrahman MOHAMED • Ina'am ELTAWIL	Antalya Bilim University
Examining the Effects of Regulated Intersections on Urban Landscape and Urban Transportation	• Duygu KARABIÇAK GÜNAYDIN • Esra ÖZHANCI	Nevşehir Hacı Bektaş Veli University
Investigation of Sense of Place within the Framework of Conservation Plans and Physical Space in Türkiye	• Emre KOLÇAK • Eti AKYÜZ LEVİ	Dokuz Eylul University
Distinction Between Form-Process and Making-Becoming: Epistemological Foundations of Urban Theories	• Elçin Burcu TEMEL • Rifat Gökhan KOÇYİĞİT	Maltepe University
Urban Rail System Line Planning in Al-Hofuf City, Saudi Arabia	• Ömer ÇÖLOVA • Majid ALJASIM	Karabük University
Rail System Route Planning in Egypt: The Case of Luxor	• Ömer ÇÖLOVA • İbrahim KILIÇ • Aziz KADIOĞLU	Karabük University

FRIDAY– May 31, 2024
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(Online)
SESSION-34, HALL-3/ OTURUM 34, SALON-3
MODERATOR: Gizem DİNÇ

TITLE	AUTHORS	AFFILIATION
Study on Self-Healing Concrete Through Experimentation	• Chayaraju BALASAI • Nadagouda KALYANI	G Pulla Reddy Engineering College
Experimental Study on the Behaviour of Concrete Filled Steel Tubes Subjected to Axial and Lateral Loading	• P. GAJALAKSHMI • Menaka A S	B.S Abdur Rahman Crescent Institute of Science and Technology
Ignition and Burning Rate of Sheanut Shell Briquettes Produced at Moderate Temperature and Die Pressure	• Elinge C.M. • D.Y. Bawa • M. S. Zubairu • Magaji M.B • F. A. Atiku	Kebbi State University of Science and Technology
A Study on Biosorbents for the Removal of in Organic Chemical from Water	• Subhashish Dey	Gudlavalleru Engineering College
A Review on Optimizing Design and Performance of Fiber-Reinforced Concrete	• Deep CHATTERJEE • Subhojit CHATTARAJ • Saheed KHAN • Soumi DEY • Jamuna PATRA	Brainware University
Optimum Design of Reinforced Concrete Cantilever Retaining Walls by Artificial Bee Colony Optimization Algorithm	• Mehdi Shalchi TOUSI	Beyte internatinal University
Microwave-Assisted Catalytic Co-Pyrolysis of Plastic Waste and Used Cooking Oil into Valuable Products as Sustainable Energy Source	• Farzin SHEIKH • Muhammad Yasin NAZ • Shazia SHUKRULLAH • Muhammad Rizwan KHALID	University of Agriculture
Transformation Sharia Finance Industry: the Vital Role of Financial Technology (Fintech) in Central Java	• Aulia Rahma Diniya PUTRI • Hendri Hermawan İNUGRAHA • M. Aris SYAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan

FRIDAY– May 31, 2024
Cyprus Time 13:30-15:45
(Online)
SESSION-35, HALL-4/ OTURUM 35, SALON-4
MODERATOR: Hatice Eda GÜL

TITLE	AUTHORS	AFFILIATION
Educational Context, Abilities and Entrepreneurial Intentions of University Students. Empirical Investigation	• Laura Diaconu MAXIM	University of Iasi
Women in Small Entrepreneurship in Kazakhstan	• Yerkezhan KENZHEALI • Talgatova DILNAZ	K. Sagadiyev University of International Business
Researching the Dynamic of Education Among Women in Kazakhstan	• Suleimenova ANEL	K. Sagadiyev University of International Business
Relatıonshıp Between Hedonıc Lıfestyle and Consumptıve Behavıor in Uın K.H Abdurrahman Wahıd Pekalongan, Indonesıa	• Muhammad Luki FATURROKHMAN • Hendri Hermawan ADINUGRAHA • Muhammad Aris SYAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
Perceived Social Support and Illness Perception in Cardiac Patients Mediating Role of Psychological Morbidity	• Anam ARSHAD • Amarah QURESHI	University Of Management and Technology
The Influence of Population, Education, And Unemployment on The Number of Poor People in Central Java in 2021	• Arinal HUSNA • Hendri Hermawan ADINUGRAHA • Muhammad Aris SAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
Ergonomic Assessment of Workers and Their Tasks in the Metal Casting Industry in North India	• Anmol BHALLA • Harjit SINGH • Harminder SINGH • Pahulpreet SINGH • Himanshu KHANNA • Manish DEV	Guru Nanak Dev University
Exploring the Potential of Online Learning: Opportunities and Challenges	• M. FAUZI • Milatul FATKHIYAH	UIN K.H. Abdurrahman Wahid Pekalongan

FRIDAY– May 31, 2024
Cyprus Time 13:30-15:45
(Online)
SESSION-36, HALL-5/ OTURUM 36, SALON-5
MODERATOR: Kamiar YAZDANI

TITLE	AUTHORS	AFFILIATION
The Role of Fiscal Policy in Promoting Sustainable Economic Growth	• Khabibah DZILKAMIL • Hendri Hermawan ADİNUGRAHA • Muhammad Aris SAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
United for Sustainability: Collaborative Strategies for Global Development	• Ashraful AMIN • Shahareyar EMON • Jahid Hasan RANA • Abdul Kader JELANE	University of Rajshahi
Empowering Economic Development in Gejlig Village Through Village-Owned Enterprises (BUMDes)	• Muhammad Risqi HARYWIBOWO • Hendri Hermawan ADINUGRAHA • M. Aris SAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
Unmasking Misinformation: A Multifaceted Strategy for Fake News Identification and Typology with TF-IDF & Passive Aggressive Classifier	• Mansi PATHAK • Varinder Kaur ATTRI	Guru Nanak Dev University
Impact of Behavioral Biases on Investment Behavior: A Study of Retail Investors	• Ishrat BASHIR • Sushil Kumar MEHTA	Shri Mata Vaishno Devi university
Unveiling Asymmetric Dynamics: Fossil Fuel Consumption and Carbon Emissions in India – Aggregate and Disaggregate Analysis	• Yousuf KHAN • Shadman ZAFAR • Syed Mohd. SHAHZEB • Mohd Azam KHAN	Aligarh Muslim University
Investment Potential for the Transfer of The Archipelago's Ikn in Indonesia	• Diva Nimas RAMADHANI • Hendri Hermawan ADİNUGRAHA • Muhammad Aris SYAFI'I, M.E.I • Happy Sista DEVY, M.M	UIN K.H. Abdurrahman Wahid Pekalongan
Implementation of I'm L Al-Kal M Rules in the Salam Contract in Online Buying and Selling Transactions	• Maryani Ayu RAHMAWATI • Hendri Hermawan ADINUGRAHA • M. Aris SYAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan

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SESSION-37, HALL-6/ OTURUM 37, SALON-6
MODERATOR: Alexandrov V.S.

TITLE	AUTHORS	AFFILIATION
Photocatalytic Properties of NiO and ZnO Thin Films for Ecology/Environment Application	• Khemissi LAHOUEL • Meriem GASMI	University of Abbes Laghrour
A Systematic Review of Work-Related Musculoskeletal Disorders in the Foundry Industry and Scope for Ergonomics Design Interventions	• Anmol BHALLA • Harjit SINGH • Harminder SINGH • Pahulpreet SINGH • Himanshu KHANNA • Manish DEV	Guru Nanak Dev University
Development of New Methods of Substance Analysis in Comparison with the Reference Sample	• Alexandrov V.S.	Kazan National Research Technical University named after A.N. Tupolev
Survival Time of Cancer Patients Using Some Distribution	• P. PANDIYAN • G. SATHYAMURTHY • G. SUBASH CHANDRABOSE	Annamalai university
Conservation of Beneficial Insects Through the Insect Hotels	• GUNASEKAR G • SIVASURIYAN K • AJAYDESOUZA V • GOWRI SHANKAR S • PRITHIV R	Annamalai University
Allelochemical Effect on Averrhoa Carambolal Inanatomical Architecture on Wheat Growth	• Syeda Sabika Zahra Naqvi • Syed Mohsan Raza Shah • Zaheer Abbas	University of Education
Using Nanotechnology in Heath science	• Lamia Berkane, Azzeddine Choughrem, Ghania Ahmed, • Dalal Doudi, Mohammed Sadok Derki, • Mohammed Nadjib Derki, • Chikha Maria, • Nadjah Bedida	University of El Oued
Toxic Effect of Microplastics Supplemented Sunflower Meal-Based Diet on The Growth Performance, Body Composition, Nutrient Digestibility and Hematology of Labeo Rohita	• Muhammad AMJAD • Eram RASHID • Syed Makhdoom HUSSAIN • Danish RIAZT • Zeeshan YOUSAF	Government College University

FRIDAY– May 31, 2024
Cyprus Time 16:00-18:15
(Online)
SESSION-38, HALL-1/ OTURUM 38, SALON-1
MODERATOR: Berna ÜSTÜN

TITLE	AUTHORS	AFFILIATION
Examining the Potentials of Media Architecture in Future Architectural and Public Spaces	• Işıl AKSU İŞLEK • Berna ÜSTÜN	Eskisehir Technical University
Examining the Perception of Space through Digital Installations	• Mehmet Akif SUBAŞI • Çiğdem POLATOĞLU SERTER	Yıldız Technical University
Interdisciplinary Nature-Based Collaboration in the Digital Age	• Elif YAMAÇ • Cahide AYDIN İPEKÇİ	Gebze Technical University
A New Complex Network Based Approach for Detection of Arrhythmias in ECG Signals	• Serkan AKSU • Bayram AKGÜL	Bartın University
A Neuroscience-Based Research Strategy for the Effect of Emotions in Architectural Design Thinking	• Sevim Gülen TÜRKER • Dilek YILDIZ ÖZKAN	Istanbul Technical University
A Classification Study on Systems That Provide Automated Control of BIM-Based Building Projects in Computerized Environment According to Building Regulations	• Murat AYDIN	Ankara University
Reflections of Primitive on Contemporary Architecture at the Intersection of Techne and Technology	• Merve ARTKAN • Berna ÜSTÜN	Antalya Bilim University

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Cyprus Time 16:00-18:15
(Online)
SESSION-39, HALL-2/ OTURUM 39, SALON-2
MODERATOR: Murat ZENGİN

TITLE	AUTHORS	AFFILIATION
Determination of Flood Risk Areas in Central District of Denizli Province	• Duygu DOĞAN • Murat ZENGİN	Pamukkale University
The Digital Documentation of Cultural Heritage: The Case of Kalaycıoğlu Masjid	• Leyla KADERLİ • Büşra UZASLAN	Erciyes University
Digital Urban Culture between Sustainability and Creativity: Flagship Projects of Dar-ül Mülk for Cultural Tourism	• Feyza TOPÇUOĞLU	Middle East Technical University
Interaction of Cultural Heritage Assets and New Media Art	• Işıl AKSU İŞLEK • Hicran Hanım HALAÇ	Eskisehir Technical University
Color-Urban Identity Relationship in Urban Designs	• Seyhan SEYHAN • Elif BAYRAMOĞLU	Karadeniz Technical University
Designing Urban Spaces as Emotions	• Elif SAĞLIK • Emine Berfin MINKARA	Çanakkale Onsekiz Mart University
The Effect of Transportation on Urban Identity in Urban Areas	• Seyhan SEYHAN • Elif BAYRAMOĞLU	Karadeniz Technical University
The Traces of Landscape in Historical and Touristic Streets: Ayvalık – Cunda (Alibey) Island	• Mahmut Can AST • Elif SAĞLIK	Çanakkale Onsekiz Mart University

FRIDAY– May 31, 2024 Cyprus Time 16:00-18:15 (Online) SESSION-40, HALL-3/ OTURUM 40, SALON-3 MODERATOR: Meryem Bihter Bingül Bulut		
TITLE	AUTHORS	AFFILIATION
Water Efficient Landscape Design for The Sustainability of Water Resources in Urban Areas	• Bilgenur AK • Öner DEMİREL • M. Bihter BİNGÖL BULUT	Kırıkkale University
Examination of Manisa Demirci 83. Yıl Park in Terms of Universal Standards for Disabled People	• Feyza AYDIN ÇOLAKOĞLU • Dilşen ONSEKİZ	Usak University
Generating Concepts in the Process of Environmental Design Projects: The Case of Trabzon Sera lake Resort	• Tuğba DÜZENLİ • Elif Merve ALPAK	Karadeniz Technical University
The Theory of Affordances and Its Relationship with the Environment	• Tuğba DÜZENLİ • Elif Merve ALPAK	Karadeniz Technical University
Turkish Heritage in the Wellness Culture in the City of Eger, North Hungary	• Sándor Földvári	Debrecen University
Sustainable Development and Environmental Protection	• Sreekumar S.L.,	University College TVM
Insights on International Charters and Urban Planning for the Preservation of Historic and Archaeological Sites	• Mohammad JUPER • Naif Adel HADDAD	Hashemite University
VR and edutainment for Cultural Heritage, Architecture and Urban Planning Interpretation & Tourism Promotion	• Hadeel WAHISH • Sara ALJABER • Naif Adel HADDAD	Hashemite University

FRIDAY– May 31, 2024
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(Online)

SESSION-41, HALL-4/ OTURUM 41, SALON-4
MODERATOR Mete Ünal GIRGEN

TITLE	AUTHORS	AFFILIATION
Transportation in Tourism Development in Non-Urban Areas in Nigeria: Faith-Based Interventions	• Favour C. UROKO	University of Nigeria
Interpretation and Intervention in Historic Building as a Street of Art and Graffiti: The Palacio De Mansilla of the UNESCO World Heritage Site of Segovia, Spain	• Mira Naif HADDAD	IE University
Harnessing Ecotourism: A Catalyst for Conservation and Sustainable Community Development in Fragile Ecosystems	• Astitva Kumar RAO	Dr. B. R. Ambedkar National Law University
Recommendations for Sustainable Recreation Development Within the Carpathian Biosphere Reserve	• Natalia HABCHAK • Svitlana MYSHKO	Uzhhorod National University
Sites of Community Importance Versus Protected Areas of National Interest in Romania	• MIHĂILESCU Simona • GHEORGHE Florentina Iuliana • MANU Minodora • ONETE Marilena	Institute of Biology Bucharest of the Romanian Academy
Development of Agroforestry Ecotourism, Mapping of Tourist Objects and Attractions in Pasawaran Regency Lampung Province, Indonesia.	• Erlina Rufaidah • Surnayanti • Machya Kartika Tsani • Sugeng P Harianto • Nuril Atmajaya	, Universitas Lampung
Implementation of Multilingual Translation as a Customer Acquisition Tool for Turkish Hotels	• Vasyl PUZANOV	Zaporizhzhya National University
Analysis of the Influence of the Number of Accommodations, Tourist Attractions, and Transportation Availability on the Number of Domestic Tourist Visits in Central Java Province in 2021	• Laila Fitria Nur RAHMA • Hendri Hermawan ADİNUGRAHA • Muhammad Aris SAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan

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(Online)

SESSION-42, HALL-5/ OTURUM 42, SALON-5
MODERATOR: Tuba Gizem AYDOĞAN

TITLE	AUTHORS	AFFILIATION
The Role of Religious Moderation to Build Harmonious Interreligious Relations Through Cultural Accommodation	• Ardia Puspita DEWI • Hendri Hermawan ADİNUGRAHA • Aris SYAFI'I • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan
"The Cultural Tapestry of Parenting in Pakistan: Insights into 'Pure Life' and Child-Rearing"	• Sareh Larijany • Sani e Zehra	Ahlul Bayt International University
“Alakdan: A Virtual Assistant for Centro Escolar University Processes”	• Dungca, Francis Steven Z. • Garduque, Reymark M., • Reyes, Ellesia Catherine P.	Student at Centro Escolar University
“MiniXplorer: An Image Recognition Mobile Application using Google Machine Learning Kit and Text-to-Speech Integration”	• Brendiz Allain Alamil	Centro Escolar University
Ethical Considerations in Technology Implementation In Various Sectors	• Gowri Shankar S • Ajaydesouza V • Gunasekar G • Kathiravan P • Prithiviraj K	Annamalai University
Driving Brand Leadership: Quality in the Indian Auto Industry	• Mikul • Ishwar Mittal • Rosy Dhall	Maharshi Dayanand University
A Study of Consumer Attitudes and Preferences Regarding Plant-Based Meat Substitutes	• Agata Studenna	KN Nutrition and Nutrition Prevention
Augmented Reality Mobile Applications Design for Mathematics Education: A case study of learning Linear Programming	• Laura Yohana • Asep Septiyono • Suyoto	Universitas Atma Jaya Yogyakarta

FRIDAY– May 31, 2024
Cyprus Time 16:00-18:15
(Online)
SESSION-43, HALL-6/ OTURUM 43, SALON-6
MODERATOR: Dhulasiraman M

TITLE	AUTHORS	AFFILIATION
Production of hydrogen fuel and carbon nanotubes from high-density polyethylene using an in-situ catalytic microwave pyrolysis process	• Bilal Shoukat • Muhammad Yasin Naz • Shazia Shukrullah • Hammad Hussain • Muhammad Shoaib	University of Agriculture Faisalabad
Empowering Health Through IoT-Driven Predictive Monitoring for Cost-Efficient Care	• Dhulasiraman M	R.M.K. Engineering College
Study of the Adsorption of a Basic Dyes on an Activated Carbon Derived from Jujube Cores	• BOUSSALAH Mohammed Ettahar • GUELLA Sofiane • MEDJAHDI Malika	University of Sidi bel Abbes
Quantile Regression Analysis on the New Unit Nadarajah and Haghighi Distribution	• Ayesha Siddique • Farrukh Jamal • Abdus Saboor • Shakaiba Shafiq	The Islamia University of Bahawalpur
Sedimentology and Characterization Physico-Chemical and Textural Properties Textural Properties of Bentonites Kert Neogene Basin	• Ait Hmeid H • Akodad M • El Halim M • Omdi F.E • Baghour M • Skalli A • Chahban M Aalaoul M	Mohamed 1st University
Comparison Study Between Sliding Mode Control and Backstepping Control Of A Wind Power System Based on the DFIG Generator	• Abdelghafour HERIZI • Riyadh ROUABHI • Al hassan BOUSSAG • Abdesattar DJALAB	University of M'sila
A Novel Chaotic Image Encryption Technique Based on Filtering Operation and 4D Hyperchaotic System	• M. Naim, A • Hadj Brahim	University of Sciences and Technology of Oran Mohamed Boudiaf
Smart Electric Vehicle Charging System Integrated with Renewable Sources	• B. PHARM, • A. DINESH BABU	Swedish College of engineering and technology Taxila

FRIDAY– May 31, 2024
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(Online)

SESSION-44, HALL-1 / OTURUM 44, SALON-1
MODERATOR: Asena SOYLUK

TITLE	AUTHORS	AFFILIATION
Analysing The Aesthetic Control Practices Between the Ranges of Centrality-Locality and Recommendation-Prohibition	• Tarık Emre KIRHALLI • Rifat Gökhan KOÇYİĞİT	Mimar Sinan Güzel Sanatlar Üniversitesi
Examining The Concept of Place Attachment in a Temporary Accommodation Space Like Dormitory: Yeditepe University Dormitory Example	• Cansu Aktaş	Yeditepe University
Finite Element Analysis of Adobe Building Components	• Dilara KALLİ • Ali İhsan ÇELİK	Erciyes University
Examination The Effects of Iconic Buildings On Cities	• Güler BAYRAK ALCA • Berrin ŞAHİN DİRİ	Mimar Sinan Fine Arts University
Earthquake Caused Embodied Energy Potential of Demolition WasteA Case Study in Istanbul	• Ceren ÇAKAR • Cenk Üstündağ	Istanbul Technical University
A Journey with the Senses in Library Design	• Hande EYÜBOĞLU • Serap FAİZ BÜYÜKÇAM	Samsun University
The Role of Vernacular Housing Architecture in Cultural Sustainability: The Bodrum Peninsula Example	• İlayda Demirci • Hümeyra Birol	Dokuz Eylül University
Left Behind: Waste Museums	• Serap FAİZ BÜYÜKÇAM • Hande EYÜBOĞLU	Ondokuz May University

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SESSION-45, HALL-2/ OTURUM 45, SALON-2
MODERATOR: Leyla SURİ

TITLE	AUTHORS	AFFILIATION
Architectural Solutions Inspired by Nature and Bringing You Closer to Nature	• Leyla SURİ	Istanbul Commerce University
Shelter Design for Living Species in Terrain Vague	• Deniz Kantar	Istanbul Bilgi University
Spatial Assessment of Bakırköy Ispirtohane, a Renovated Industrial Heritage	• Refia Anıl AĞRILI • Emel İŞLEYEN	Marmara University
Use of Multi-Criteria Decision Support Systems in Reusing of Historical Buildings	• Gülferah ÇORAPÇIOĞLU • Osman Serdar SANCAK	Istanbul Arel University
Planning Surface Runoff Using Green Infrastructure Systems in Urban Waterways	• Nazmiye ERMEYDAN • Serhat ANIKTAR	Istanbul Sabahattin Zaim University
A Cartography of Contemporary Earthen Buildings in Türkiye	• Furkan Taha GEDİKLİ • Işıl RUHİ-SİPAHİOĞLU • Matthieu Joseph PEDERGNANA	TOBB University of Economics and Technology
Spatial/Legal Problems of Cappadocia Troglodytes and Solution Suggestions	• Emine AKCAN ŞİRİN • Ufuk DOĞRUSÖZ	Istanbul Commerce University
Establishing the Post-Disaster Shelter and Belonging Bond	• Selin Rüya ÇAKIR • Ümit Turgay ARPACIOĞLU	Istanbul Gelişim University

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SESSION-46, HALL-3/ OTURUM 46, SALON-3
MODERATOR: Ertan DÜZGÜNEŞ

TITLE	AUTHORS	AFFILIATION
Comparative Analysis of Visitor Preferences in Different Status Protected Areas Using Social Media Metrics	• Ertan DÜZGÜNEŞ • Duygu KARABIÇAK GÜNAYDIN	Karadeniz Technical University
Analysis of Natural Children's Playgrounds from an Ecological Perspective	• Duygu KARABIÇAK GÜNAYDIN • Ertan DÜZGÜNEŞ	Karadeniz Technical University
Evaluation of the Use of Virtual and Augmented Reality Technologies in the Presentation of Cultural Heritage Sites in the Context of Conservation Principles	• Merve Aslı KARA YÜKSEL	Maltepe University
Nature and Ecosystem Based Solutions in Urban Areas	• Burçin EKİCİ • Tuğba ARSLAN	Tekirdağ Namık Kemal University
Conservation of Historical Roads and Cultural Route Concept: The Case of Eğirdir District	• Merve YILMAZ • Elvan Ebru OMAY POLAT	Yıldız Technical University
Landscape Planning	• Muhammad MUHAMMAD	Cairo University
Watershed Planning	• Khamisu ABDULLAHI	UIN K.H. Abdurrahman Wahid Pekalongan

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SESSION-47, HALL-4/ OTURUM 47, SALON-4

MODERATOR: Mert ÇAKIR

TITLE	AUTHORS	AFFILIATION
Determination of The Effects of Biostimulant and Nitrogen Applications on The Establishment of Bermuda Grass from Sprigs	• Bora Mert ŞAHİN • Bahar SANCAR • Songül SEVER MUTLU	Akdeniz University
The Effects of Biostimulant and Fertilizer Applications on The Winter Dormancy of Bermudagrass (*Cynodon dactylon* L. Pers)	• Yakup SEVGİN • Bahar SANCAR • Songül SEVER MUTLU	Akdeniz University
Effects of Artificial Intelligence Supported Smart Irrigation Systems on Water Efficiency and Plant Production	• Gülcay ERCAN OĞUZTÜRK • Şüheda TAMER • Meryem YURTSEVEN	Recep Tayyip Erdoğan University
The Role of Building Integrated Agriculture Systems as Potential Food Production Areas in Ecological Building Design	• Beyza Aleyna BAYRAM • Pınar KISA OVALI	Trakya University
Impact Assessment of Climate Change on Rice Crop in the Main Areas of Pakistan	• Muhammad Umer HAMEED • Syed Aftab WAJID • Iqra Ali AHMAD	University of Agriculture Faisalabad
Agroforestry Tree Cover Change in Agricultural Landscapes Following Farmland Exclosure in Tigray, Ethiopia	• Gebremariam YAEBIYO • Emiru BIRHANE • Tewodros TADESSE • Abbadi GIRMAY • Kiros MELES HADGU • Solomon KIROS	Tigray Agricultural Research Institute
Tuberculosis is a Threat to Olive Trees	• Fedwa BEGHDADI • El-Hadj DRICHE	Hassiba Benbouali University of Chlef
Leveraging ICT and AI for Sustainable Precision Agriculture in Pakistan- Greenai	• Muhammad FAISAL	Asian Countries General Coordinator

FRIDAY– May 31, 2024
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SESSION-48, HALL-5/ OTURUM 48, SALON-5
MODERATOR: Çağla AYDEMİR

TITLE	AUTHORS	AFFILIATION
Development of Computer Technology-Based Elementary School Learning Media in The Modern Era	• Nila SA'ADAH • Hendri HERMAWAN ADINUGRAHA • M. ARIS SYAFI'I • Happy SISTA DEVI	UIN K.H. Abdurrahman Wahid Pekalongan
Embracing Diversity: Promoting Inclusivity in Classroom Environments for Visually Impaired Students	• Sadhna JAIN • Baldev GULATI	University of Delhi
The impact of artificial intelligence technology on education management and educational jobs	• Mahmoud KIASATI	Cairo University
Social Cohesion and Solidarity: The Impact of Rehabilitation Beyond Housing	• Francisca MACHADO	University of Minho
Virtual Augmented and Mixed Reality to Improve Education Systems	• Mutaz Mohammed ABUHASHISH • Leyla MURADKHANLI • Mohammad Ali AL QUDAH	Khazar University
Friend or Foe? Assessing the Impact of Plagiarism Detection Software on Writing Instruction	• Zohaib Hassan SAIN	Superior University
Addressing Psychosocial Challenges Through Action: A Fieldwork Experience in Community	• Mohd KAIF • Qurratul AIN ALI	Medicine Department, Aligarh Muslim University
Batang Integrated Industrial Estate: Opportunities and Challenges for a Sustainable Economic Future	• Aulia Isna Shinta WATI • Hendri Hermawan ADINUGRAHA • M. Aris SYAFI' • Happy Sista DEVY	UIN K.H. Abdurrahman Wahid Pekalongan

FRIDAY– May 31, 2024
Cyprus Time 19:00-21:45
(Online)

SESSION-49, HALL-6/ OTURUM 49, SALON-6

MODERATOR: İlayda TÜRKER

TITLE	AUTHORS	AFFILIATION
The Impact of Lactobacillus in fruit and Vegetable Coating on Food Safety and Shelf Life	• Narges FATHABADIBOZCHELOEI • Zahra REZAPOUR	Islamic Azad University
Health-Related Behavior of Students in University of Ilesa	• P. F. ADEKUNLE	University of Ilesa
Comparative Study of Cellulose Based Adsorbents: A review	• Chajid Mohamed AMINE • El Bouari ABDESLAM • Tanane OMAR	Hassan II University of Casablanca
Using *Sorghum bicolor* L. (Moench) in the Phytoremediation of Heavy Metal Contaminated Industrial Landscapes of Katsina, Nigeria, for Environmental Sustainability	• Yahaya Yunusa RIKO • Zubairu Umar DARM • Kamaluddeen KABIR	Umaru Musa ‘Yar’adua University
Contemporary Trends of the Energy Economy in Georgia	• Maka JISHKARIANI	Georgian Technical University
Experimental and Computational Study of Annealed Nickel Sulfide Quantum Dots for Catalytic and Antibacterial Activity	• Sawaira MOEEN • Muhammad IKRAM • Ali HAIDER	UIN K.H. Abdurrahman Wahid Pekalongan
The Impact of Lactobacillus in Fruit and Vegetable Coating on Food Safety and Shelf Life	• Narges FATHABADIBOZCHELOEI • Zahra REZAPOUR	Islamic Azad University

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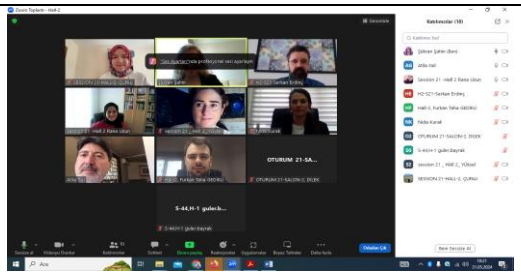


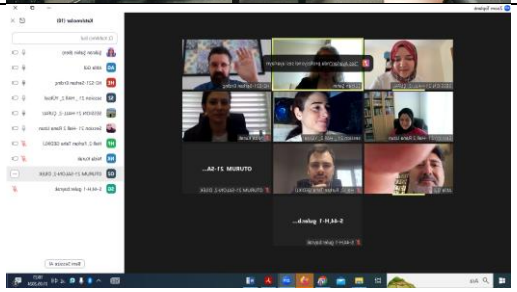


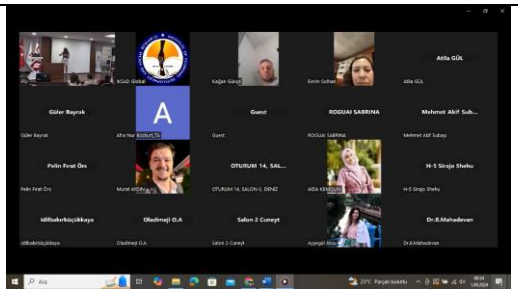

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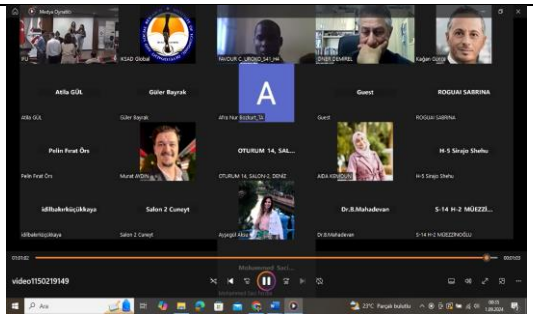


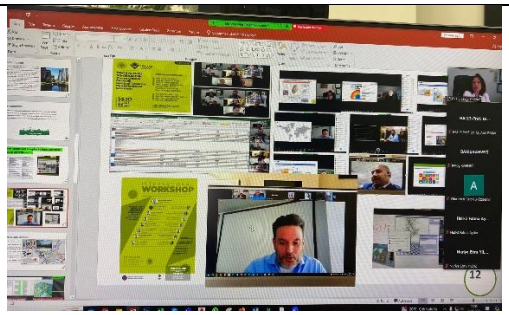


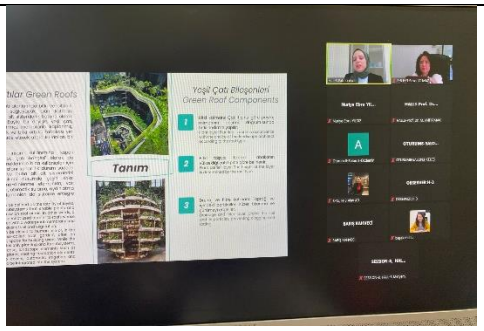


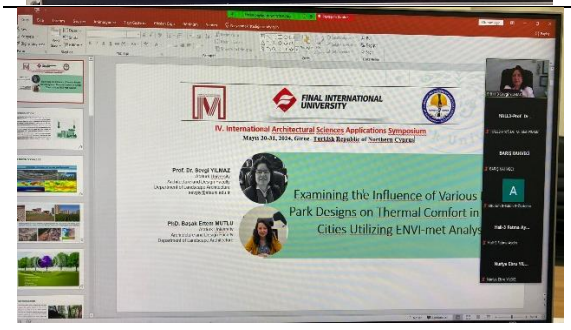


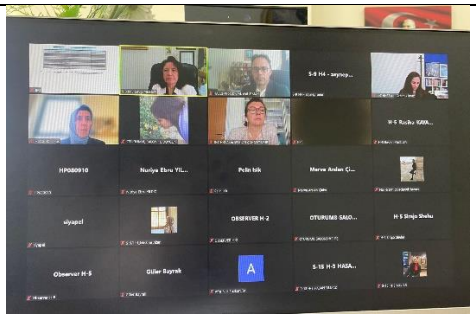







Tanım


FINAL INTERNATIONAL UNIVERSITY
IV. International Architectural Sciences Applications Symposium
Examining the Influence of Various
Park Designs on Thermal Comfort in
Cities Utilizing ENVI-met Analys



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Comparative Analysis of Urban Land Cover Changes: A Case Study of İzmir, Türkiye, and Naples, Italy

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Abstract

Urban environments are continually shaped by the complex interplay of various factors such as planning process and urbanization. While in European cities this change is mainly due to the need for transport infrastructure, cultural preferences, and economic growth related to logistic and commercial sectors, rather than demographic dynamics, in Türkiye, especially in metropolitan areas, increasing population and economic activities affect land use, resulting in the replacement of the agricultural regions, green spaces, and vacant lands with urban structures such as residential areas, commercial centers, industrial zones, and infrastructure facilities. This study aims to comparatively examine the changes in land cover in Türkiye's İzmir city and Italy's Naples city. Urban Atlas Land Cover/Land Use (UA LC/LU) data obtained from the Copernicus Land Monitoring Service for 2012 and 2018 were used for this purpose. Spatial changes in Antalya and Naples cities were extracted and comparatively analyzed. The study found that land cover/land use changes in Naples showed less variation compared to the development and urbanization observed in Izmir. Adopting Italy's urban planning objectives, which include urban regeneration and green infrastructure approaches, in Türkiye would support the creation of resilient, sustainable cities in coastal areas against flood risks and other disasters. This study has provided significant insights for policymakers in planning sustainable land use and has encouraged progress in this field.

Keywords: Land Cover Change, Urbanization, Urban Planning, Metropolitan Areas

1. Introduction

Urbanization is one of the primary drivers of changes in land use/land cover (LULC). The concentration of urban areas, a feature of global urbanization, leads to numerous issues such as ecological degradation, deforestation, health problems, and the loss of natural beauty (Oliveira, Tobias & Hersperger, 2018; Huang, Huang, and Liu, 2019; Domingo, Palka & Hersperger, 2021; Dinç & Gül, 2021). Another impact is the alteration of local and regional climate conditions due to changes in land surface characteristics (Taiwo et al., 2023). Many cities located in ecologically fragile regions worldwide must balance economic development with ecological protection (Fang et al., 2022). Therefore, research guiding sustainable urban planning and sound local policymakers' decisions has gained importance. A comprehensive understanding of local land use dynamics is crucial for effective transformations oriented to SDGs like climate change adaptation, socioeconomic equality, and well-being (Liang, 2018; Taiwo et al., 2023)

LULC (Land Use/Land Cover) is used as a crucial indicator to understand natural and economic processes. Detecting and modeling changes in land use and cover facilitates the understanding of the causes and consequences of these dynamics, enabling policymakers to make more informed decisions (Wang et al., 2022). With the recent advancements in remote sensing technology, LULC data has become a significant source of information. This data is typically collected and processed using Geographic Information Systems (GIS), and it includes both structured and unstructured information obtained from a wide range of sources over large areas.

Urban Atlas, an initiative by the European Union developed under the Copernicus Program, provides detailed and up-to-date information on land use and cover for major European cities. Urban Atlas relies on data obtained through GIS and remote sensing techniques and offers detailed maps of various land use categories in major European cities. These categories include residential areas, commercial and industrial zones, green spaces, water bodies, and transportation infrastructure. Urban Atlas data is utilized in many fields such as urban planning, environmental assessment, natural resource management, and climate change effect monitoring.

This study aims to comparatively examine land cover changes in Türkiye's Izmir city and Italy's Naples city. For this purpose, Urban Atlas Land Cover/Land Use (UA LC/LU) data obtained from the Copernicus Land Monitoring Service for the years 2012 and 2018 were utilized. The land use data of both cities were analyzed, and changes were evaluated. The land cover and land use changes of Izmir and Naples, which host significant historical, cultural, and natural resources, were compared, and the results were presented.

As a result of the comparison, it was determined that the land cover and land use changes in Naples were less compared to the urbanization and development observed in Izmir. Urban changes in Naples were more limited. Although Naples has experienced some growth in urban changes, particularly in areas designated for industrial, commercial, and public use, efforts aimed at urban revitalization and sustainable development have progressed slowly. In contrast, Izmir experienced a significant increase in construction activities; the construction areas expanded from 5.10 km² in 2012 to 11.37 km² in 2018. These changes can be attributed to factors such as urban growth, the development of transportation infrastructure, and increased construction sector activities. Additionally, there was a noticeable increase in industrial, commercial, and public areas. This situation increases the potential of urban development to harm natural areas and agricultural lands. Researchers note that this change in Izmir is driven by migration from rural to urban areas.

Especially for resilient, sustainable urban planning against flood risks and other disasters and urban transformation integration, Türkiye is recommended to adopt urban transformation and green infrastructure approaches, which are among Italy's urban planning goals, and suggestions have been made to contribute to the development of both countries in terms of planning. The results of the study provide important insights for policymakers to promote and enhance sustainable land use planning.

2. Urban Development in Izmir and Naples

In this study, land cover/land use changes in Izmir and Naples, coastal cities rich in natural, cultural, historical, and environmental values, have been examined. Izmir is a major city located on the western coast of Türkiye, along the Aegean Sea. Naples, on the other hand, is situated on the southwestern coast of Italy, along the Tyrrhenian Sea (Figure 1).

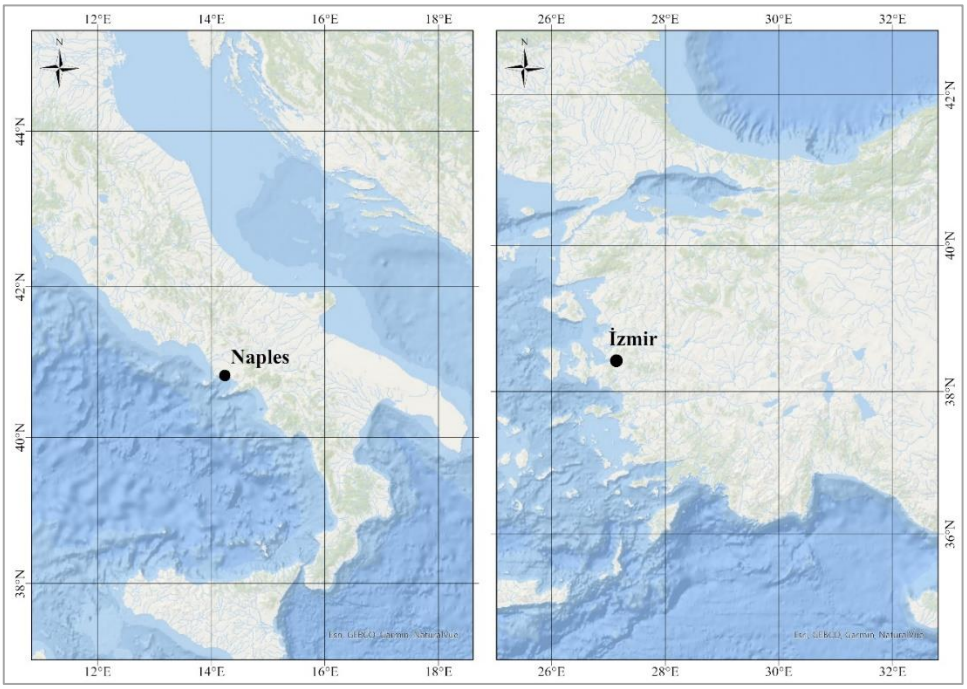


Figure 1. Location of Naples and Izmir cities

Within this context, the districts of Balçova, Bayraklı, Bornova, Buca, Çiğli, Gaziemir, Karabağlar, Karşıyaka, Kemalpaşa, Konak, Menderes, Menemen, Narlıdere, and Torbalı located in the city center of Izmir have been examined. According to the 2023 data from the Turkish Statistical Institute (TSI), the total population of these districts is 3,559,684 people. Izmir's urban settlement area is situated along the Aegean Sea coast in Türkiye. The periphery of Izmir along the coast of the Izmir Gulf is surrounded by mountains and agricultural, and forested areas. Due to these natural boundaries, the city has a significantly limited area for urban growth and is concentrated as a basin settlement (Aydın et al., 2020).

The multi-layered cultural fabric of Izmir has evolved through continuous settlements starting from the Neolithic period and progressing through the Hellenistic, Roman, Byzantine, Turkish Beyliks, Ottoman, and Republican periods. Rebuilt entirely on the slopes of Pagos Mountain in the 3rd century BC, Izmir was divided into urban spaces allocated for residences and public structures, organized according to grid plan principles. During the Ottoman period, roads became curved, narrow, and irregular due to the terrain's slope, with stair-like streets in steep areas. However, traces of the ancient street layout have not entirely disappeared, and streets showing grid plan characteristics among the organic street structure of the Ottoman period still partly exist. Izmir served as the gateway to the west for the Ottoman Empire during its rule. Positioned at the intersection of land and sea trade routes, the city witnessed the activities of various societies, different religious and ethnic groups, reflecting their cultural structure over time, creating a multi-layered urban fabric with physical remnants and traces. Despite being entirely covered by new structures today, historical plans, archaeological research, excavations, and surface scans allow for the interpretation of this grid plan. Parallel and perpendicular streets can still be identified in the street system, with interrupted streets sometimes continuing at parcel boundaries (Karabağ et al., 2022).

According to its historical records dating back to the 19th century, Izmir was characterized by a settlement with long streets opening frequently to the sea, narrow building blocks, and 2-3 storey buildings suitable for human scale. A design that provided pedestrian access along the coast and ensured the relationship between sea and land was prevalent. However, with the first intervention in Izmir, the quay project, air corridors were closed, and the city's climatic feature was largely altered (Toprak & Bolat, 2022).

The fire disaster in 1922 destroyed the central area of the city within a short period and affected an area of approximately 300 hectares. This disaster provided an opportunity to create a modern city center in the early Republican period. With the plan prepared by French planners Rene and Raymond Danger, Izmir began to be rapidly developed. Monumental structures built in the national architectural style contributed to the formation of a city structure in harmony with classical French urbanism. However, when the reconstruction of the fire areas was completed in 1937, the Izmir Municipality terminated the implementation of the plan, citing its inadequacy in directing the city's development. Although many structures from the National Architecture period were lost due to urbanization trends starting in the 1950s, the Danger plan still survives today. This plan was a design where functional requirements were located in a geometric order and reflected the classical French urbanism. However, in subsequent plans, higher buildings were preferred with the demolition of such structures (Karabağ et al., 2022).

In recent years, while urbanization in Izmir has been shaped by intense urbanization practices, especially in coastal areas, unhealthy spatial growth has occurred due to migration and squatter settlements. Rural-to-urban migration, which still continues in Izmir, is prominently observed. Among the reasons for this migration are the search for employment, a more organized life, and participation in social activities. However, these losses in rural areas lead to problems such as concentration and clustering in the center of Izmir (Yıldırım & Savgan, 2022).

Naples is a prominent city in Southern Italy, situated within the volcanic region of Vesuvius and Campi Flegrei, boasting one of the most stunning stretches of the Italian coastline. The city is nestled between hills and the sea, occupying two primary types of natural space: the uneven highland area in the North-West and the rural, flat eastern region comprised of alluvial sectors. With a relatively small area of 117.27 km^2, Naples is one of the smallest major cities in Italy. The 2022 census recorded a population of 913,462, a decrease from 1,008,419 in 2002. Naples boasts the highest gross density among large Italian cities, at 8563 pp/ km^2.

Historically, Naples served as the capital of a kingdom, playing a significant role in European political processes. It was one of the most populous cities in Europe and the largest in Italy (with a population of 484,000 in 1861) and held significant productive and trade functions. However, in 1861, the proclamation of the Kingdom of Italy led to Naples losing its international status. Stripped of the Two Sicilies and its financial assets, the city became merely a provincial capital among many Italian cities. Despite this, the city's population and density continued to grow, exacerbating problems of overcrowding and the deplorable sanitary conditions in the central urban districts. The last 150 years have greatly impacted the city's image and role. Naples has transitioned from a capital city to a provincial city, without yet finding a new national or international role. This situation persists to the present day, as the city's growth appears to be more focused on a disintegration of its urban structure rather than an innovative and progressive process. Despite some feeble attempts at transformation, the current situation has several flaws that cannot be

ignored. It is important not to be swayed by images from plans and programs, and instead recognize the need for improvement. Some recent initiatives, such as the enhancement of the urban mobility network and the revitalization of the Port and Airport, have been positive. However, these efforts have moved at a slow pace, often hindered by the fragmentation of power and an inability to establish and maintain an administrative system that is on par with successful examples in other parts of Italy (Mazzeo, 2009).

3. Comparison of Land Cover/Land Use Changes between Izmir and Naples

The land use and change in Izmir and Naples, both historically significant trade and cultural centers, have evolved due to various factors. For the comparison of land cover/land use changes in Izmir and Naples, Urban Atlas Land Cover/Land Use (UA LC/LU) data for both cities for the years 2012 and 2018 were obtained (Figures 2, 3). Subsequently, the data were utilized to understand the changing dynamics of land use and to assess the urban development or environmental changes in specific regions or countries.

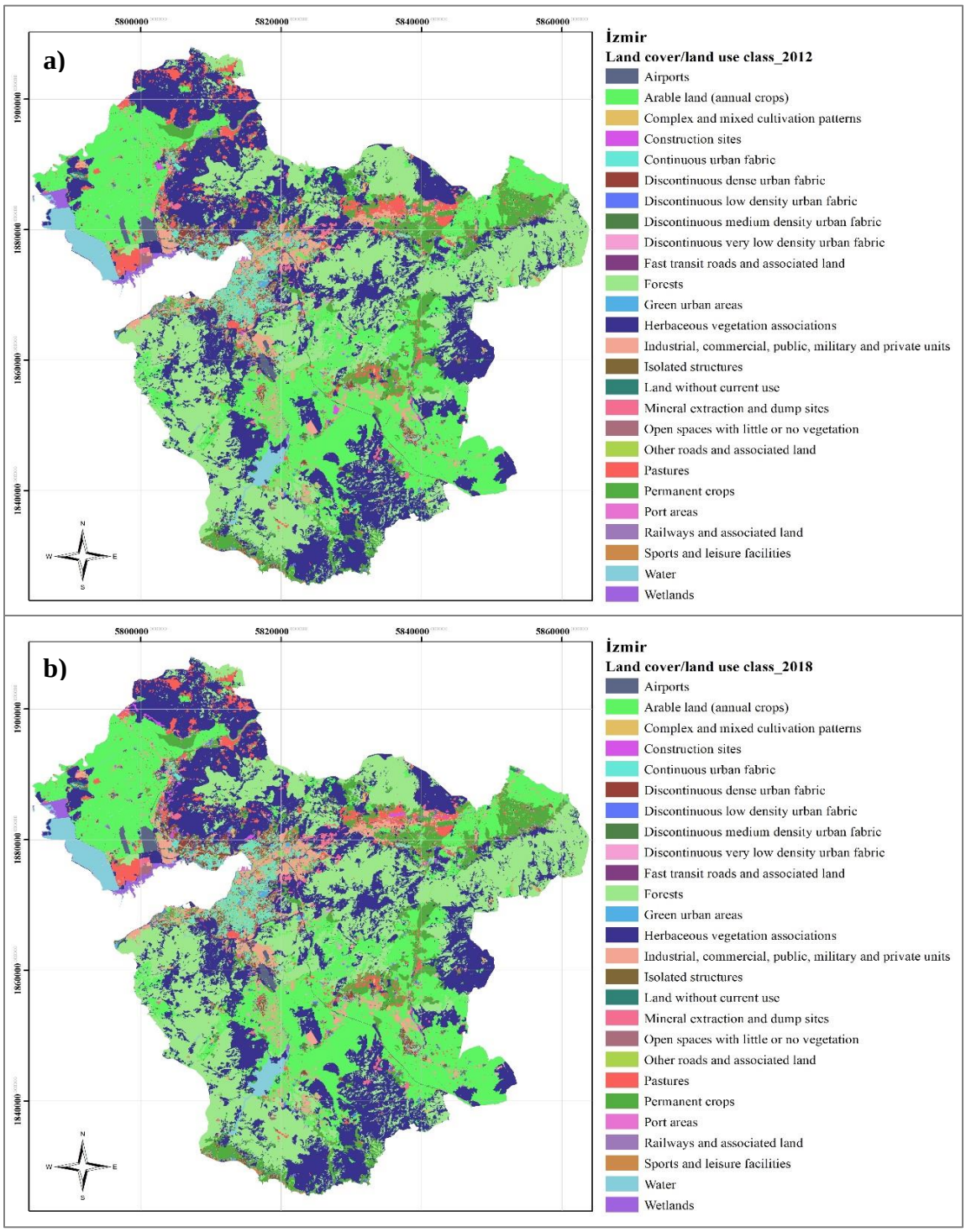


Figure 2. a) Land cover/land use of İzmir- 2012, **b)** Land cover/land use of İzmir- 2018

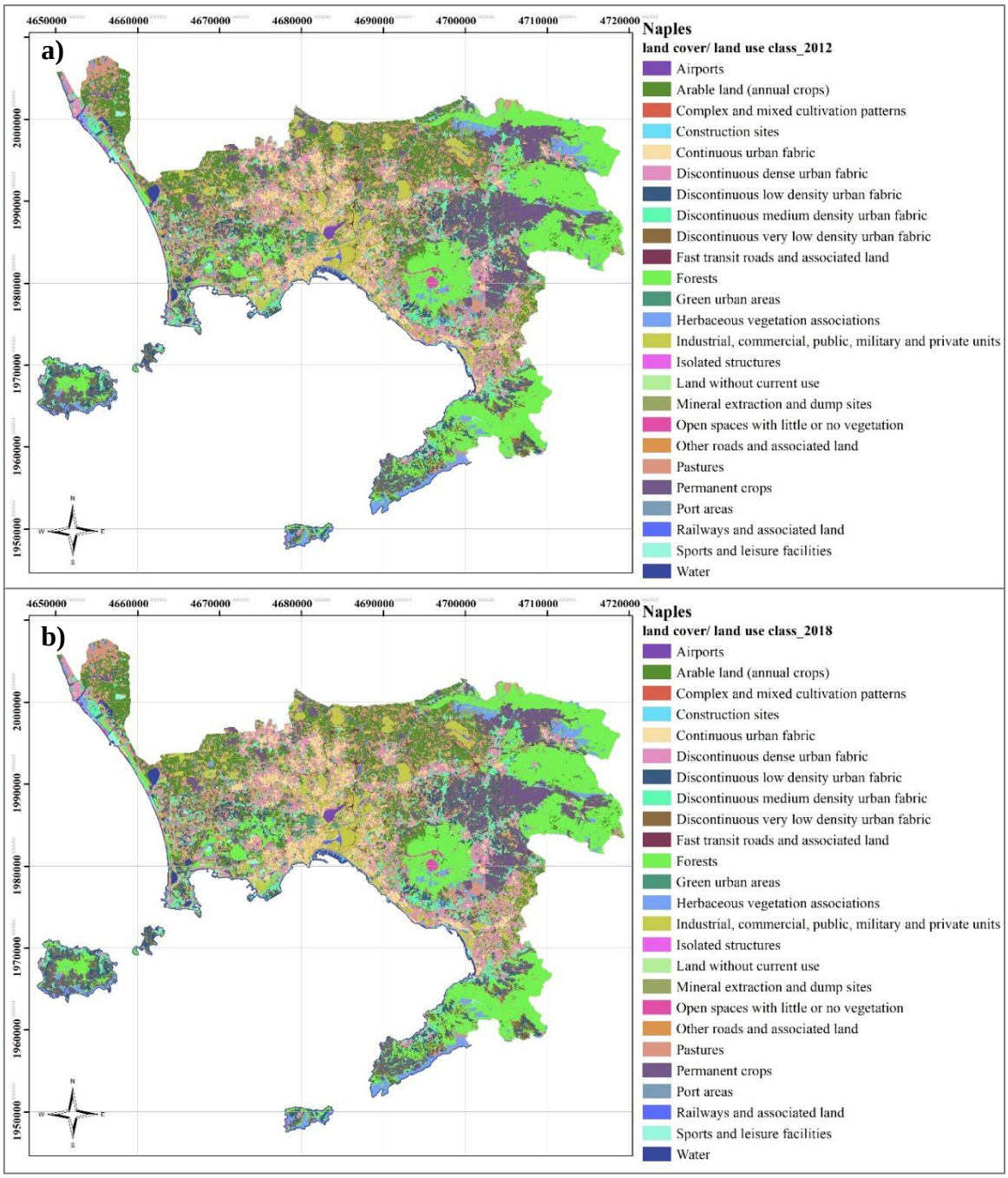


Figure 3. a) Land cover/land use of Naples-2012, **b)** Land cover/land use of Naples-2018

According to the results of the land cover comparison data of Izmir city for 2012 and 2018, significant changes are evident in different land use categories. There is a notable increase in construction areas, which have risen from 5.10 km² in 2012 to a considerable 11.37 km² in 2018. Mineral extraction and dump sites have increased from 17.17 km² to 22.50 km², making it the second-largest increase in land cover. Meanwhile, there has been a slight increase in sports and leisure facilities, with the area rising from 5.35 km² in 2012 to 5.99 km² in 2018. Also, In railways and associated land, rising from 3.04 km² in 2012 to 3.09 km² in 2018.Green urban areas have also seen an increase, rising from 14.18 km² to 14.9 km². However, there has been a decrease in agricultural areas, with a reduction from 6 km² in 2012 to 5.91 km² in 2018 due to a decrease in complex agricultural patterns (Figure 4 a, b).

These changes can be attributed to factors such as urban expansion, the development of transportation infrastructure, an increase in construction sector activities, and greater investment in meeting the recreational needs of the community. The significant increases in land use for industrial, commercial, and public units are noteworthy. This situation increases the potential of urban development to harm natural areas and agricultural lands. In addition to this urban concentration, the Aegean Region, where Izmir is located, is experiencing issues such as drought, decreasing agricultural productivity, and increasing pressure on water resources due to climate change. Recently, Izmir has been exposed to flood disasters caused by the effects of climate change, which have adversely affected reclaimed urban coastal areas in the inner bay. In particular, the floods occurring in the northern part of the bay along the Karşıyaka coastal strip have caused damage to urban areas, transportation, and building areas (Ercanlı & Savaşır, 2022).

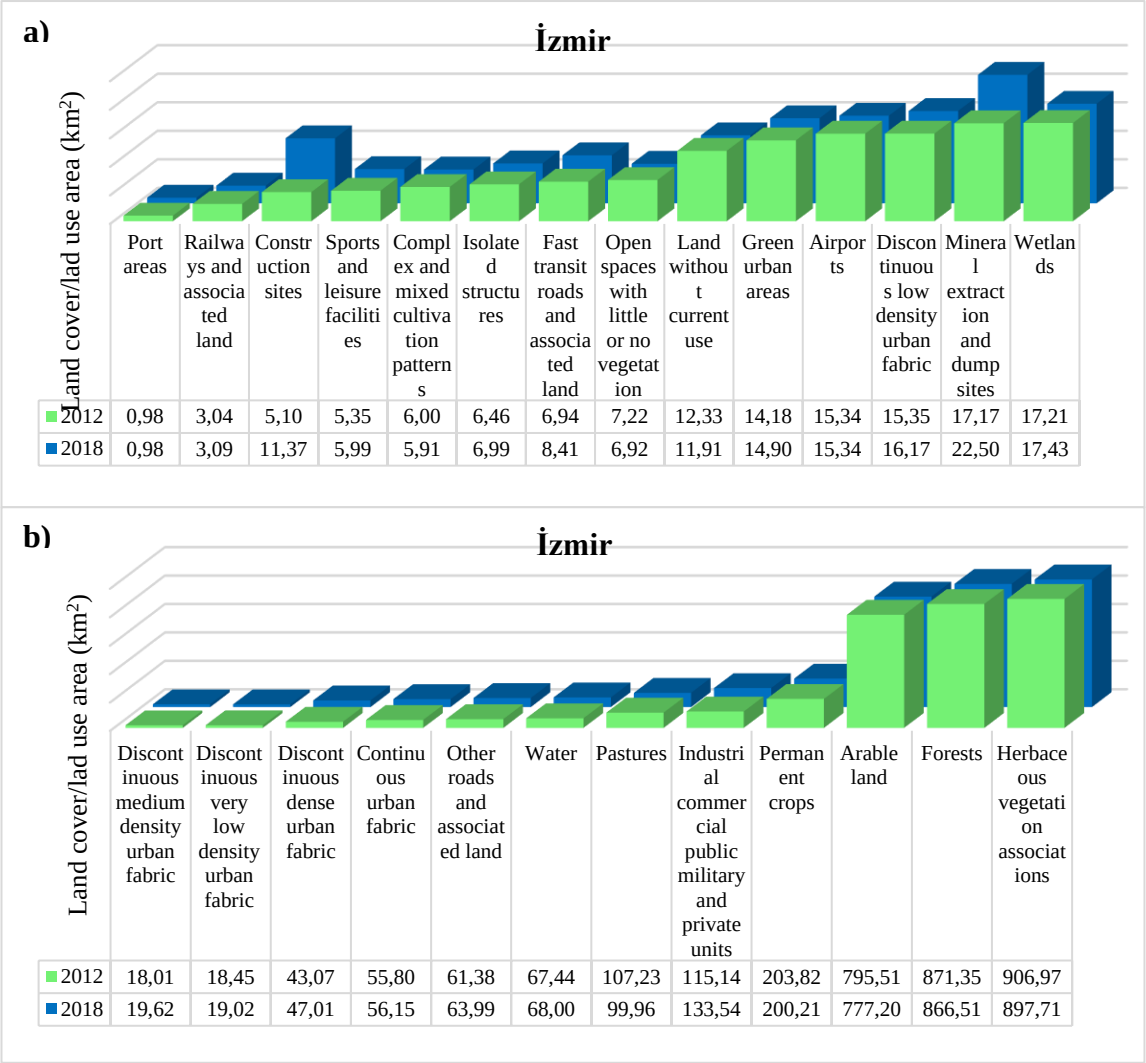


Figure 4. a) Land cover/land use area of İzmir 2012-2018, **b)** Land cover/land use area of İzmir 2012-2018

Turning to the land use changes graphs occurred in the city of Naples between 2012 and 2018, a greater stability of the data can be noted, compared to the Turkish context. Figures 7 a and b show, for example, that natural resources as a whole have not been affected. Green areas show a small (but encouraging) increase of 1.36 km², as do Herbaceous vegetation associations with an increase of 0.56 km² and stability for both sports and leisure facilities (about 17 km²) and forests (about 305 km²). The higher proportion of the area allocated to urban green can be attributed to environmental and quality-of-life improvement initiatives. This may include the creation of parks, gardens, and other green infrastructure as a response to growing environmental awareness and citizen demand for recreational space.

On the other hand, urban transformations implemented to meet the needs of citizens and to attempt to improve the functioning and organization of the urban system, concerned the land use category of industrial, commercial, public, military, and private units, with an increase of 7.50 km², which is the largest in the Italian city, land without current use, with an increase of 0.83 km², and discontinuous medium density urban fabric, with an increase of 0.77 km² (Figure 5 a, b).

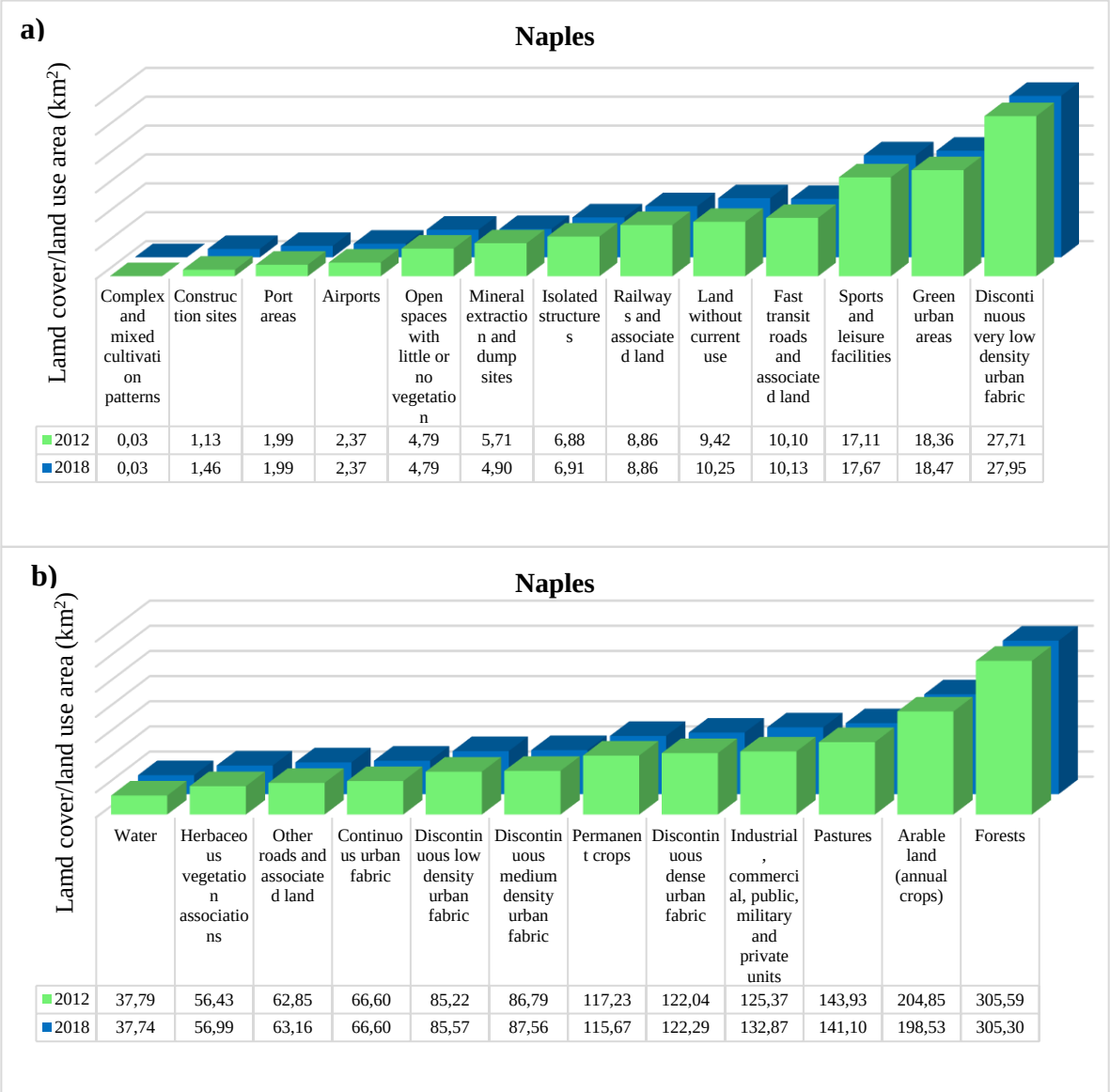


Figure 5. a) Land cover/land use area of Naples 2012-2018 **b)** Land cover/land use area of Naples 2012-2018

The reasons for these variations in anthropic land use may be due, in the first place, to the processes of economic growth affecting the Neapolitan area and requiring the construction of new sites for production and distribution of goods. Alongside the transformations in the production sector, there

are also those relating to the construction of low-density residential areas, which are often outside the scope of a planning process and characterise both the marginal areas of the city and the low-density municipalities located in the province of Naples.

4. Results

This study aimed to compare land cover and land use changes in the cities of Naples and Izmir. For this comparison, land use dynamics between 2012 and 2018 were calculated for each city, and the proportions were presented comparatively (Figure 6, Table 1).

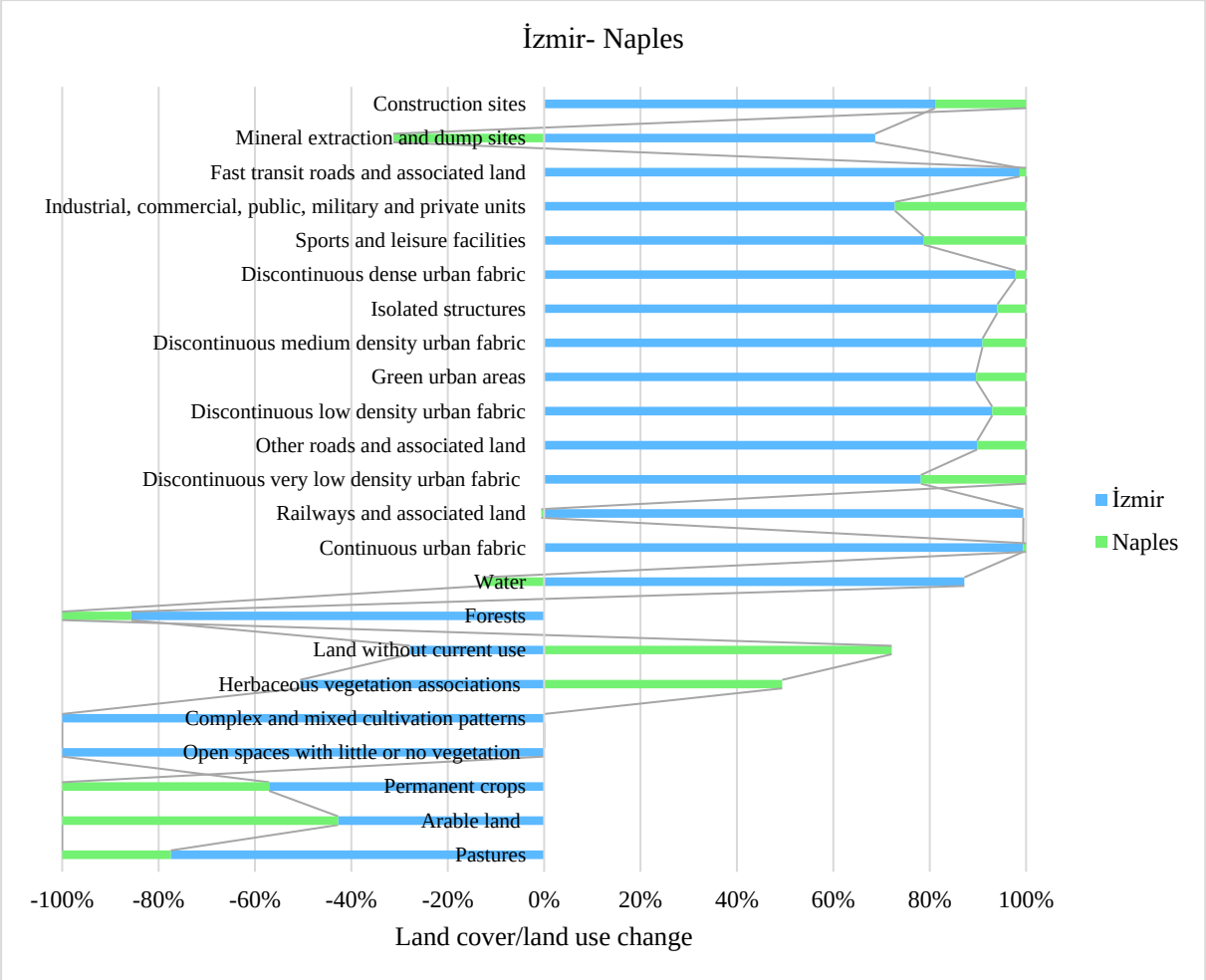


Figure 6. Comparison of land cover/land use change of İzmir and Naples

Table 1. Comparison of land cover/ land use change percentages in Izmir and Naples

Land cover / land use	İzmir	Naples
Pastures	-6.78	-1.97
Arable land	-2.30	-3.09
Permanent crops	-1.77	-1.33
Open spaces with little or no vegetation	-4.11	0.00
Complex and mixed cultivation patterns	-1.52	0.00
Herbaceous vegetation associations	-1.02	1.00
Land without current use	-3.40	8.79
Forests	-0.56	-0.09
Water	0.83	-0.12
Continuous urban fabric	0.63	0.00
Railways and associated land	1.63	-0.01
Discontinuous very low density urban fabric	3.11	0.87
Other roads and associated land	4.25	0.48
Discontinuous low density urban fabric	5.35	0.40
Green urban areas	5.13	0.59
Discontinuous medium density urban fabric	8.99	0.89
Isolated structures	8.06	0.51
Discontinuous dense urban fabric	9.14	0.20
Sports and leisure facilities	12.05	3.25
Industrial, commercial, public, military and private units	15.98	5.98
Fast transit roads and associated land	21.27	0.29
Mineral extraction and dump sites	31.07	-14.16
Construction sites	122.82	28.58

Figure 6 and Table 1 depict the land use and land cover changes in Izmir and Naples, expressed as percentages. The comparison between the two cities reveals significant differences in various land use categories. In Izmir, there has been a notable increase in construction activities (122.82%), likely attributed to rapid population growth and urban expansion. Conversely, this increase in Naples has been more moderate (28.58%). While Izmir has seen a significant increase (31.07%) in mining and casting areas, Naples has experienced a significant decrease (-14.16%) in this area. Additionally, significant increases are observed in sports and entertainment facilities, as well as industrial, commercial, public, military, and private units, and rapid transit roads in Izmir, whereas such increases are more limited in Naples. Both cities have experienced a decrease in agricultural lands and rural areas, although this decrease is more pronounced in Izmir (6.78%, 2.30%, 1.77%) compared to Naples (1.97%, 3.09%, 1.33%). These data suggest rapid urban expansion and increased industrial activities in Izmir, while indicating a more balanced trend in land use in Naples.

According to the results, land use in Izmir has been rapidly changing in recent years, experiencing rapid urban growth and industrialization. This has led to agricultural lands and natural areas being sacrificed for urban expansion and infrastructure projects. Additionally, with the increase in tourism facilities along the coastal areas of Izmir, land use along the coastline is also changing. However, it is stated that there are no studies on reorganizing the balance of relations between coastal-urban space-building areas against flood risk arising from planning and climate change in

coastal areas, and some current practices are inadequate (Ercanlı & Savaşır, 2022). In addition, researchers emphasize that despite the development seen in service areas, spaces such as parks, squares, open sports areas, and open marketplaces, which serve as gathering areas during disasters, are not distributed in a manner conducive to creating a resilient city. Especially, it is crucial to reconsider urban plans within the framework of disaster occurrences and to include spatial uses related to disaster management, including gathering areas, in urban plans (Aydın et al., 2020). Furthermore, it is noted that basic urban activities and facilities (central business areas, residential areas, and industrial areas) are located in areas with high and very high levels of risk in terms of climate change throughout the city (Aydın et al., 2017).

Building speculation is a major problem in Naples, where land is acquired and developed with the aim of maximizing profits, often without considering the negative repercussions in terms of sustainability and increased vulnerability to extreme weather phenomena. The lack of redevelopment projects, especially in the most marginal areas, often leads to buildings and land being unused and degraded, which are subsequently consumed for new developments, instead of recovering and reusing already urbanized spaces. In this regard, however, it should be pointed out that more and more initiatives and funds are being made available to initiate virtuous urban regeneration practices, so as to have benefits also in terms of reducing land use change (Gargiulo & Zucaro, 2019; Zucaro & Carpentieri, 2019).

To plan a more sustainable, balanced, and climate change-resilient city in İzmir, it is recommended to include the urban transformation and green infrastructure approaches, which are among the goals in Italian urban planning, into Türkiye's urban planning. In this context, the authors have developed measures.

These are as follows: (1) Development of climate change resilient green infrastructure and recreational areas: Resilient green areas should be created to reduce flood risks and preserve groundwater levels against the effects of climate change. When creating new green areas, resilient plant species should be preferred against extreme temperatures and droughts that climate change may cause. (2) Development of low carbon emission and sustainable transportation systems: A significant step can be taken in combating climate change by strengthening public transportation infrastructure. Carbon-free transportation should be encouraged by constructing more metro lines, tramways, and bicycle paths. (3) Preservation of cultural and historical heritage and promotion of sustainable tourism: Sustainable materials should be used in the restoration of historical areas, and energy efficiency should be prioritized. This way, along with the preservation of historical heritage, the carbon footprint can be reduced. (4) Increase in energy efficiency and use of renewable energy sources: By raising the energy efficiency standards of buildings in İzmir, the impact of the increase in energy demand caused by climate change can be reduced. In addition, investments in renewable energy sources should be encouraged throughout the city. (5) Sustainable management of water resources and waste management: By effectively managing water resources and promoting efficient water use in İzmir, the risk of water scarcity arising from climate change can be reduced. Furthermore, the capacity of wastewater treatment plants should be increased, and wastewater recycling should be encouraged. (6) Community participation and awareness of climate change: For sustainable urbanization efforts in İzmir to be successful, it is important to raise awareness among the public about climate change and ensure their participation. Environmental education programs and campaigns can be organized to raise awareness about the effects of climate change on the community.

5. Conclusion

This study is based on a comparative analysis examining the land use and land cover changes in İzmir and Naples. The main reasons for the differences in land use change between İzmir and Naples are the cities' geographical locations, economic structures, population densities, and political factors. İzmir, being a significant industrial and commercial center in Türkiye, exhibits more pronounced economic growth and urban expansion. Naples, on the other hand, has adopted a more conservative approach due to its historical and cultural heritage, resulting in a slower pace of urban transformation. Therefore, considering these factors is crucial to understanding the land use changes in both cities.

Izmir, with its rapid urbanization and industrialization, has experienced significant changes in land use, characterized by a substantial increase in construction activities and mineral extraction areas. This urban expansion has encroached upon agricultural lands and natural areas, posing challenges to sustainable development and resilience against climate change impacts, such as floods.

On the other hand, Naples exhibits a more balanced trend in land use, with fewer drastic changes observed compared to Izmir. While Naples has seen moderate increases in urban transformations, particularly in areas allocated for industrial, commercial, and public units, efforts towards urban regeneration and sustainable development have been relatively slow-paced.

To address the challenges posed by rapid urbanization and climate change, recommendations for both cities include integrating urban transformation and green infrastructure approaches into urban planning strategies. This involves creating resilient green spaces, developing sustainable transportation systems, preserving cultural heritage, promoting energy efficiency, managing water resources effectively, and fostering community participation and awareness.

Overall, this study underscores the importance of proactive and holistic urban planning approaches that prioritize sustainability, resilience, and community engagement. By implementing these measures, both Izmir and Naples can strive towards creating more livable, environmentally conscious, and climate-resilient cities for current and future generations.

Thanks, and Information Note

The article complies with national and international research and publication ethics.

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