

## Res. Asst. PhD Emral MUTLU

### Personal Information

Web: <https://avesis.atauni.edu.tr/emral.mutlu>

### International Researcher IDs

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### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Peyzaj Mimarlığı Anabilim Dalı, Turkey 2016 - 2022

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Peyzaj Mimarlığı, Turkey 2013 - 2016

Undergraduate, Bartın University, Orman Fakültesi, Peyzaj Mimarlığı, Turkey 2007 - 2012

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Erasmus KA205 PLANATISE "Practical Learning for Action and Networking via an Educational Tool, Inspiring Study of Environment" isimli proje kapsamında "Eğiticinin Eğitimi", Atatürk Üniversitesi Dış İlişkiler Ofisi Koordinatörlüğü, 2018

### Dissertations

Postgraduate, ERZURUM HAVUZBAŞI MEYDANI PEYZAJ TASARIM SENARYOLARI, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Peyzaj Mimarlığı, 2016

### Research Areas

Agricultural Sciences, Agriculture, Landscape Architecture, Landscape Design

### Academic Titles / Tasks

Research Assistant, Ataturk University, Mimarlık ve Tasarım Fakültesi, Peyzaj Mimarlığı, 2015 - Continues

### Academic and Administrative Experience

"Mimarlık ve Tasarım Fakültesi Botanik ve Hobi Bahçeleri Koordinatörlüğü, Ataturk University, Fen Bilimleri Enstitüsü,

Peyzaj Mimarlığı Anabilim Dalı, 2021 - Continues

Spor Koordinatörlüğü, Ataturk University, Fen Bilimleri Enstitüsü, Peyzaj Mimarlığı Anabilim Dalı, 2017 - Continues

## Courses

Peyzaj Tasarım İlkeleri, Undergraduate, 2022 - 2023

Peyzaj Mekanlarında Bahçe Bitkileri Kullanımı, Undergraduate, 2022 - 2023

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Street design scenarios using vegetation for sustainable thermal comfort in Erzurum, Turkey**  
Yılmaz S., Mutlu B. E., Aksu A., Mutlu E., Qaid A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.3, pp.3672-3693, 2021 (SCI-Expanded)
- II. **Analysis of different urban spaces on thermal comfort in cold regions: a case from Erzurum**  
Irmak M. A., Yılmaz S., Mutlu E., Yılmaz H.  
THEORETICAL AND APPLIED CLIMATOLOGY, vol.141, pp.1593-1609, 2020 (SCI-Expanded)
- III. **Alternative scenarios for ecological urbanizations using ENVI-met model**  
YILMAZ S., MUTLU E., YILMAZ H.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.25, no.26, pp.26307-26321, 2018 (SCI-Expanded)
- IV. **Assessment of the effects of different tree species on urban microclimate**  
Irmak M. A., Yılmaz S., Mutlu E., Yılmaz H.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.25, no.16, pp.15802-15822, 2018 (SCI-Expanded)
- V. **Integration of Thermal Comfort Information with Spatial Modelling in Erzurum City Center**  
YILMAZ S., KOÇ A., MUTLU E., DEMİRCİOĞLU YILDIZ N.  
Procedia Engineering, vol.169, no.169, pp.80-87, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Efficient Use Of Squares in Winter Cities With ENVI-met Analysis and The Effects On Thermal Comfort**  
MUTLU E., Yılmaz H.  
Kent Akademisi (Online), vol.16, no.3, pp.1580-1596, 2023 (Peer-Reviewed Journal)
- II. **Kış Kentleri İçin Yeni Peyzaj Tasarım Senaryoları Yıl Boyu Peyzaj/Peyzaj12**  
YILMAZ H., MUTLU E., AKSU A., Gheshlagh Sofla N.  
Inonu University Journal of Art and Design, vol.10, no.22, pp.42-54, 2020 (Peer-Reviewed Journal)
- III. **Heating Effects of Plant Communities in Cold Climate Regions: Erzurum Ata Botanic Garden. Soğuk İklim Bölgelerinde Bitki Topluluklarının Sıcaklık Etkileri: Erzurum Ata Botanik Bahçesi**  
Yılmaz S., Irmak M. A., Mutlu E., Yılmaz H.  
Academic Platform Journal of Engineering and Science, vol.7, no.3, pp.430-435, 2019 (Peer-Reviewed Journal)
- IV. **Yenilenen Park Alanlarında İklim Odaklı Tasarımlar: Erzurum Kentsel Dönüşüm Alanı Örneği-Climate-Oriented Designs in Renewed Parking Areas: Erzurum Urban Transformation Area Case**  
Yılmaz H., Yılmaz S., Mutlu E.  
Nevşehir Bilim ve Teknoloji Dergisi, vol.8, pp.79-88, 2019 (Peer-Reviewed Journal)
- V. **Soğuk İklim Bölgelerinde Bitki Topluluklarının Sıcaklık Etkileri: Erzurum Ata Botanik Bahçesi**  
Yılmaz S., Irmak M. A., Mutlu E., Yılmaz H.  
ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, vol.7, no.3, pp.430-435, 2019 (Peer-Reviewed Journal)
- VI. **Climate sensitive Pavement Modelling for Pedestrian Ways**

Yılmaz H., Yılmaz S., Yavaş M., Mutlu E., Koç A.

. Procedia Engineering, vol.169, no.169, pp.408-415, 2016 (Peer-Reviewed Journal)

VII. **Erzurum Kent Merkezinde Kitle Yeşil Alanların Hava Kalitesine Etkisi**

Koç A., Yılmaz S., Mutlu E.

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.6, no.4, pp.109-112, 2016 (Peer-Reviewed Journal)

VIII. **Erzurum Kent Merkezinde Kitle Yeşil Alanların Hava Kalitesine Etkisi. Effect Of Large Green Areas On Air Quality In Center of Erzurum**

Koç A., Yılmaz S., Mutlu E.

İğdır Üni. Fen Bilimleri Inst. Der. / İğdır Univ. J. Inst. Sci. & Tech., vol.6, no.4, pp.109-112, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Quantification of thermal comfort based on different street orientation in winter months of urban city Dadaşkent**

Yılmaz S., Yılmaz H., Mutlu E.

in: International Symposium on Greener Cities for More Efficient Ecosystem Services in a Climate Changing World, G. Pennisi, L. Cremonini, T. Georgiadis, F. Orsini, G.P. Gianquinto, Editor, Acta Horticulturae, Antwerp, pp.67-72, 2018

## Refereed Congress / Symposium Publications in Proceedings

I. **ECO-CITIES; THE CASE OF PUNGGOL, SINGAPORE**

MUTLU E., YILMAZ H.

IV. BASKENT INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY STUDIES, Ankara, Turkey, 4 - 06 August 2023, pp.518-526

II. **TEMPERATURE CHANGE OF DIFFERENT AREA USES IN THE CITY OF BAYBURT**

MUTLU E., YILMAZ H.

IV. BASKENT INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY STUDIES, Ankara, Turkey, 4 - 06 August 2023, pp.375-381

III. **Production of Erzurum City Thermal Comfort Map for Climate Oriented Design**

Yılmaz S., Irmak M. A., Yılmaz H., Mutlu E.

2nd. International Architectural Sciences and Applications Symposium "IArcSAS-2022", Baku, Azerbaijan, 9 - 11 September 2022, vol.1, no.1, pp.330-345

IV. **The Effect of Vertical Planting on Micro Climate in Extreme Climate Conditions**

Yılmaz S., Mutlu E., Mutlu B. E.

3rd International Conference on Climate Change, Balikpapan, Indonesia, 1 - 03 June 2022, pp.1

V. **Riverside Recreational Landscape Planning and Design: The Case of Kalınçam Village**

YILMAZ H., MUTLU E.

International Congress on the Phenomenological Aspects of Civil Engineering, Erzurum, Turkey, 20 June 2021, pp.444-447

VI. **Peyzaj Mimarlığı Meslek Dalında Akademik Çalışmaların Eğilimi.**

Mutlu E., Yılmaz H., Mutlu B., Aksu A.

ICAR Uluslararası Akademik Araştırmalar Kongresi/International Congress Of Academic Research, İstanbul, Turkey, 25 - 29 May 2020, pp.583-589

VII. **KIŞ KENTLERİ İÇİN YENİ PEYZAJ TASARIM SENARYOLARI YIL BOYU PEYZAJ/PEYZAJ 12**

Yılmaz H., Mutlu E., Aksu A., Gheshlagh Sofla N.

I. International Winter Tourism Congress (IWTC 2019), Erzurum, Turkey, 19 - 21 December 2019, pp.131-139

VIII. **URBAN SQUARES IN THE SCALE OF LIVABLE CITIES: SAMPLE OF ERZURUM**

Yılmaz H., Aksu A., Mutlu E., Angın S. N.

International Civil Engineering and Architecture Conference 2019 (ICEARC 2019), Trabzon, Turkey, 17 - 20 April 2019, pp.154-167

- IX. PEYZAJ MÇMARLIĐI ÖĐRENCĐLERĐNĐN BĐTKĐSEL TASARIM PROJELERĐNDE BĐTKĐ KULLANIM TERCĐHLERĐNĐN BELĐRLENMESĐ**  
Yılmaz H., Irmak M. A., Mutlu E.  
I.International Ornamental Plants Congress – VII.Süs Bitkileri Kongresi, Bursa, Turkey, 9 - 11 October 2019, pp.715-725
- X. Climate-Oriented Landscape Design of Hospital Gardens with ENVI-met**  
Mutlu E., Mutlu B., Yılmaz S.  
9th International Symposium on Atmospheric Sciences, ITU, ATMOS2019, İstanbul, Turkey, 23 - 26 October 2019
- XI. Climate Sensitive Outdoor Thermal Comfort Models For Sustainable Landscape Design At Courtyards**  
Mutlu E., Yılmaz H., Yılmaz S.  
9th International Symposium on Atmospheric Sciences, ITU, ATMOS2019, İstanbul, Turkey, 23 - 26 October 2019
- XII. Yenilenen Park Alanlarında İklim Odaklı Tasarımla. Erzurum Kentsel Dönüşüm Alanı Örneđi.**  
Yılmaz H., Mutlu E., Yılmaz S.  
International Conferences on Environment and Architecture, Muđla, Turkey, 22 - 24 April 2019, pp.1-15
- XIII. Climate-oriented designs in renovable parking areas: example of Erzurum urban transformation area**  
Yılmaz H., Yılmaz S., Mutlu E.  
2th International Congress on Engineering and Architecture-ENAR, Muđla, Turkey, 22 - 24 April 2019, pp.1-15
- XIV. Street design simulations using ENVI-met model for sustainable urbanization for thermal comfort**  
YILMAZ S., MUTLU B., AKSU A., MUTLU E.  
ID-A-USP-026, International Civil Engineering and Architecture Conference, ICEARC 19, Trabzon, Turkey, 17 - 20 April 2019
- XV. Role of natural plant use for mitigating urban head island effect defined by thermal imaging**  
Yılmaz H., Yılmaz S., Mutlu E., Irmak M. A.  
ID-A-USP-027, International Civil Engineering and Architecture Conference, ICEARC 19, Trabzon, Turkey, 17 - 20 April 2019, pp.1-15
- XVI. Çıldır Gölü'nün Rekreatiyonel Turizm Potansiyelinin Belirlenmesi**  
Yılmaz H., Mutlu E., Ertem Mutlu B., Demir M., Irmak M. A.  
ISUEP2018 Uluslararası Kentleşme ve Çevre Sorunları Sempozyumu: Deđişim/Dönüşüm/Özgünlük, Eskişehir, Turkey, 28 - 30 June 2018, vol.1, pp.282-288
- XVII. Kentlerdeki Yapı Tiplerinin Mikro İklima Etkisi: Erzurum Kenti Örneđi**  
Ertem Mutlu B., Yılmaz S., Yılmaz H., Mutlu E.  
2. ULUSLARARASIMIMARLIK VE TASARIM KONGRESİ / 2nd INTERNATIONAL CONGRESS ARCHITECTURE AND DESIGN, Çanakkale, Turkey, 11 - 12 October 2018, pp.133-141
- XVIII. Natural and Cultural Landscape Characters Along With the Erzurum-Trabzon Highway**  
Yılmaz H., Mutlu E., Özhancı E.  
4th INTERNATIONAL SYMPOSIUM ON ENVIRONMENT AND MORALS, Sarajevo, Bosnia And Herzegovina, 27 - 29 June 2018, pp.354-361
- XIX. Effects of Trees on Microclimate and Thermal Comfort in Cold Climate.**  
YILMAZ S., MUTLU B., MUTLU E., IRMAK M. A.  
4th International Symposium on Environment and Morals 27-29 June 2018 (ISEM2018 Sarajevo / Bosnia and Herzegovina), Saraybosna, 27 - 29 June 2018, vol.1, pp.352-362
- XX. Analysis Of Different Urban Spaces On Thermal Comfort In Cold Regions: A Case From Erzurum.**  
Irmak M. A., Yılmaz S., Mutlu E., Yılmaz H.  
10th International Conference on Urban Climate/14th Symposium on the Urban Environment 6-10 August 2018, New York, NY” oral presentation, New York, United States Of America, 6 - 10 August 2018
- XXI. EFFICIENT USE OF SQUARES IN WINTER CITIES WITH ENVIMET ANALYSIS AND THE EFFECTS ON THERMAL COMFORT**  
Yılmaz H., Mutlu E.

10th International Conference on Urban Climate 14th Symposium on Urban Environment, New York, United States Of America, 6 - 10 August 2018

- XXII. **Termal Konforlu Peyzaj Tasarım Alanları İçin Enerji Verimli Planlama Senaryolarının Envi-Met İle Belirlenmesi.**  
Yılmaz S., Yılmaz H., Mutlu E., Mutlu B.  
Uluslararası Kentleşme ve Çevre Sorunları Sempozyumu: Değişim/Dönüşüm/Özgünlük 28-30 Haziran 2018 (ISUEP 2018 Anadolu Üniversitesi / Eskişehir), Eskişehir, Turkey, 28 - 30 June 2018
- XXIII. **Effects of Trees on Microclimate and Thermal Comfort in Cold Climate. Soğuk İklim Bölgelerinde Ağaçların Mikroiklim Ve Termal Konfora Etkis**  
Yılmaz S., Mutlu B., Mutlu E., Irmak M. A.  
4th International Symposium on Environment and Morals (ISEM 2018), 27-29 June, Sarajevo, Bosnia And Herzegovina, 27 - 29 June 2018, pp.352-362
- XXIV. **Heating Effects of Plant Communities in Cold Climate Regions: Erzurum Ata Botanic Garden.**  
YILMAZ S., IRMAK M. A., MUTLU E., YILMAZ H.  
4th International Symposium on Environment and Morals (ISEM 2018), Sarajevo/Bosnia, Bosnia And Herzegovina, 27 - 29 June 2018, pp.341-351
- XXV. **Analysis of urban settlement unit by envi-met according to different aspects in cold regions**  
Mutlu E., Yılmaz S., Yılmaz H., Mutlu B.  
6th annual international Conference on Architecture and Civil Engineering (ACE 2018), Singapore, Singapore, 14 - 15 May 2018
- XXVI. **Quantifying The Influence of Building Surface Materials on Thermal Comfort in Cold City**  
Mutlu B., Yılmaz S., Mutlu E.  
6th annual international Conference on Architecture and Civil Engineering (ACE 2018), Singapore, Singapore, 14 - 15 May 2018
- XXVII. **Analysis of urban settlement unit by envi-met according to different aspects in cold regions**  
MUTLU E., YILMAZ S., YILMAZ H., Mutlu B. E.  
6th Annual International Conference on Architecture and Civil Engineering, ACE 2018, Singapore, Singapore, 14 - 15 May 2018
- XXVIII. **Analysis of the effect of different tree species on urban climate conditions.**  
Irmak M. A., Yılmaz S., Mutlu E., Yılmaz H.  
GREEN CITIES 2017 International Symposium on greener cities for more efficient ecosystem services, Bologna, Italy, 12 - 15 September 2017
- XXIX. **Effects of Plant Usage on Urban Thermal Comfort for Sustainable Cities.**  
Yılmaz S., Mutlu E., Yılmaz H.  
8th Atmospheric Science Symposium, Oral presentation, ATMOS 2017, 1-4 November 2017, Istanbul Technical University, İstanbul, İstanbul, Turkey, 1 - 04 November 2017
- XXX. **Thermal climatic change with trees in urban center: a modeling approach using ENVI-met.**  
Yılmaz S., Irmak M. A., Mutlu E., Yılmaz H.  
8th Atmospheric Science Symposium, Oral presentation, ATMOS 2017, 1-4 November 2017, İstanbul, Turkey, 1 - 04 November 2017, pp.658-662
- XXXI. **Scenario Produced Using Envi-Met Model for Thermal Comfort the Example of Aziziye Park.**  
YILMAZ S., Mutlu B., MUTLU E.  
8th Atmospheric Science Symposium, Oral presentation, ATMOS 2017, 1-4 November 2017, İstanbul, Turkey, 1 - 04 November 2017
- XXXII. **SCENARIO SIMULATION PRODUCED USING ENVI-METMODEL FOR THERMAL COMFORT THE EXAMPLE OF FAZIZIYE PARK**  
YILMAZ S., ERTEM MUTLU B., MUTLU E.  
8th Atmospheric Sciences Symposium, İstanbul, Turkey, 1 - 04 November 2017
- XXXIII. **Scenario Produced Using Envi-Met Model for Thermal Comfort the Example of Aziziye Park**  
YILMAZ S., Mutlu B. E., Mutlu E.  
ATMOS 2017, 1-4 November 2017, Istanbul Technical University, İstanbul, İstanbul, Turkey, 1 - 04 November 2017,

- XXXIV. **Determination of Users' Satisfaction About Hobby Garden in Atatürk University**  
Yılmaz H., Mutlu E.  
II. International Iğdır Symposium (IGDIRSEMP2017), oral presentation, Iğdır, Turkey, 9 - 11 October 2017
- XXXV. **Thermal Comfort Models for Climate Sensitive Sustainable Urban Planning: The Example of Dadaskent.**  
Yılmaz S., Irmak M. A., Yılmaz H., Mutlu E.  
II. International Iğdır Symposium (IGDIRSEMP2017), oral presentation, 9-11 October, Iğdır/Turkey, Iğdır, Turkey, 9 - 11 October 2017
- XXXVI. **Impact of Microscale Vegetation on Urban Thermal Comfort With Thermal Infrared Imaging: Erzurum City Center.**  
Yılmaz S., Mutlu E., Yılmaz H., Mutlu B.  
II. International Iğdır Symposium (IGDIRSEMP2017), oral presentation, 9-11 October, Iğdır/Turkey, Iğdır, Turkey, 9 - 11 November 2017
- XXXVII. **Quantification of thermal comfort of based on different Street orientation in winter months of urban city Dadaskent**  
Yılmaz S., Mutlu E., Yılmaz H.  
GREEN CITIES 2017 International Symposium on greener cities for more efficient ecosystem services in a climate changing World, Abst. 43 - Oral presentation, 12/15 September Bologna, ITALY, Bologna, Italy, 12 - 15 September 2017
- XXXVIII. **Analysis of the effect of different tree species on urban climate conditions**  
Irmak M. A., Yılmaz S., Mutlu E., Yılmaz H.  
GREEN CITIES 2017 International Symposium on greener cities for more efficient ecosystem services, Bologna, Italy, 12 - 15 September 2017
- XXXIX. **Climate Sensitive Pavement Modelling for Pedestrian Ways**  
YILMAZ H., YILMAZ S., YAVAŞ M., MUTLU E., KOÇ A.  
4 th International Conference on Countermeasures to Urban Heat Island, 30 May - 01 June 2016
- XL. **ERZİNCAN KENTİ ALAN KULLANIMLARI VE FIRAT NEHRİ KIYILARINDAKİ ZAMANSAL DEĞİŞİMİN ANALİZİ**  
KOÇ A., MUTLU E., YILMAZ S.  
Uluslararası Erzincan Sempozyumu, Erzincan, Turkey, 28 September - 01 October 2016, vol.3, pp.127-132
- XLI. **Uses of Erzincan city and analysis of temporal change on the banks of Fırat River**  
Koç A., Yılmaz S., Mutlu E.  
International Erzincan Symposium, Erzincan, Turkey, 28 September - 01 October 2016, pp.127-133
- XLII. **Erzincan Kenti Alan Kullanımları ve Fırat Nehri Kıyılarındaki Zamansal Değişimin Analizi**  
KOÇ A., MUTLU E., YILMAZ S.  
Uluslararası Erzincan Sempozyumu, Erzincan, Turkey, 28 September - 01 October 2016, vol.3, pp.127-133
- XLIII. **Integration of thermal comfort information with spatial modelling**  
Yılmaz S., Koç A., Mutlu E., Demircioğlu Yıldız N.  
4 th International Conference on Countermeasures to Urban Heat Island, Singapore, Singapore, 30 May - 01 June 2016, pp.1
- XLIV. **ERZURUM KENT MERKEZİNDE KİTLE YEŞİL ALANLARIN HAVAKALİTESİNE ETKİSİ**  
KOÇ A., YILMAZ S., MUTLU E.  
Uluslararası Kış Kentleri Sempozyumu, Erzurum, Turkey, 10 - 12 February 2016
- XLV. **Erzurum Kent Merkezinde Kitle Yeşil Alanların Hava Kalitesine Etkisi**  
KOÇ A., YILMAZ S., MUTLU E.  
International Winter Cities Symposium, Turkey, 10 - 12 February 2016, vol.1, pp.1232-1242
- XLVI. **The Effect of Mass Green Areas on Air Quality in Erzurum City Center**  
Koç A., Yılmaz S., Mutlu E.  
International Winter Cities Symposium, Erzurum, Turkey, 10 - 12 February 2016, pp.1232-1342
- XLVII. **Integration of Thermal Comfort Information with Spatial Modelling in Erzurum City Center**

Yılmaz S., Koç A., Mutlu E., Demircioğlu Yıldız N.

4th International Conference on Countermeasures to Urban Heat Island (UHI), Singapore, Singapore, 30 May - 01 June 2016, vol.169, pp.80-87

XLVIII. **Kültürel Miras Bağlamında Selimiye Camii ve Yakın Çevresinin Tarihi Kentsel Peyzaj Özellikleri**

CENGİZ B., MUTLU E.

GREENAGE III, 15 - 17 April 2015, pp.103-113

## **Supported Projects**

Canan F., Berberoğlu S., Irmak M. A., Öztaş T., Terzi F., Dursun D., Yılmaz H., Yılmaz S., TUBITAK Project, 1190479 numaralı ve "Sürdürülebilir Çevre Odaklı Ekolojik Kentsel Tasarım Modellenmesi: Erzurum, 2020 - 2023

Irmak M. A., Yılmaz S., TUBITAK Project, Soğuk Kentlerde İklim Parametrelerinin Termal Konfora Etkisi: Erzurum Kenti, 2016 - 2018

## **Design**

Demir M., Mutlu E., Palandöken Belediyesi, Kar Kızağı Projesi, Environmental Design / Environmental Landscape Design Project, January 2021

Yılmaz H., Koç A., Aytatlı B., Mutlu E., Kuzulugil A. C., Oltu Government House Landscape Design Project, Environmental Design / Environmental Landscape Design Project, May 2016

## **Metrics**

Publication: 64

Citation (WoS): 105

Citation (Scopus): 134

H-Index (WoS): 5

H-Index (Scopus): 6