

Prof. DUYGU ERTEN

Personal Information

Web: <https://avesis.medipol.edu.tr/derten>

International Researcher IDs

ORCID: 0000-0002-9092-2417

Publons / Web Of Science ResearcherID: L-7964-2016

ScopusID: 19639698400

Yoksis Researcher ID: 232781

Biography

Duygu Erten worked at Medipol University Architecture and Civil Engineering Departments as an Associate Professor between 2015-2022. She is a climate champion with deep expertise in adaptation and mitigation dedicated to developing sustainable built environments. Her academic career is focused around sustainable design and construction management. She is an accredited Living Building Challenge expert as well as many other green business/building certifications . She bridges sectors and disciplines to make climate proposals actionable.

She completed her BS degree in Civil Engineering from Boğaziçi University in İstanbul and received MS and Ph.D. degrees from Rutgers University in USA in Civil and Environmental Engineering. While working for AECOM and BOVIS Lend Lease in their Los Angeles offices, Dr. Erten lectured as an Adjunct Faculty at USC. She later completed the executive program at Harvard University on Leadership in Sustainability. She served as the City Director of İstanbul for Clinton Foundation as C-40's implementation partner.

She has been teaching sustainability related courses at several Universities with ENVISION and LEED metrics. She served as the Vice Director of İKLIMER between 2018-2022 -a research center working on climate change research at İMU and served as the Chairwoman of Climate Change, Energy and Health Program. Her research interests are green design, construction and standards, circular economy, sustainability and resilience in the built environment and green finance.

Education Information

Doctorate, Rutgers, The State University of New Jersey, School of Engineering, CIVIL AND ENVIRONMENTAL, United States Of America 1990 - 1994

Undergraduate, Bogazici University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1984 - 1988

Dissertations

Doctorate, Effect of fines content on liquefaction potential of sands, Rutgers The State University, 1994

Research Areas

Social Sciences and Humanities, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Istanbul Medipol University, Mühendislik Ve Doğa Bilimleri Fakültesi, İnşaat Mühendisliği Bölümü, 2015 - 2023

Lecturer PhD, University of Southern California, CIVIL ENGINEERING, CONSTRUCTION MANAGEMENT, 1999 - 2003

Research Assistant, Princeton University, Architecture And Engineering Joint Program, Architecture, 1988 - 1989

Academic and Administrative Experience

Istanbul Medipol University, 2022 - Continues

Istanbul Medipol University, 2019 - Continues

Courses

GREEN BUILDING DESIGN , CONSTRUCTION and STANDARDS, Undergraduate, 2021 - 2022

GRADUATION THESIS II, Undergraduate, 2021 - 2022

SCIENTIFIC ETHICS and RESEARCH TECHNIQUES, Postgraduate, 2021 - 2022, 2020 - 2021

INTRODUCTION TO GREEN ENGINEERING, Undergraduate, 2021 - 2022, 2020 - 2021

İNŞAAT VE YIKIM ATIKLARI, Undergraduate, 2021 - 2022, 2020 - 2021

GRADUATION THESIS I, Undergraduate, 2021 - 2022

CONSTRUCTION AND DEMOLITION WASTE, Undergraduate, 2021 - 2022, 2020 - 2021

SÜRDÜRÜLEBİLİR TASARIM İNŞAAT ve STANDARTLAR, Undergraduate, 2021 - 2022

YEŞİL MÜHENDİSLİĞE GİRİŞ, Undergraduate, 2021 - 2022, 2020 - 2021

İNSAN, MÜHENDİSLİK ve İKLİM DEĞİŞİKLİĞİ, Undergraduate, 2020 - 2021

HUMAN, ENGINEERING and CLIMATE CHANGE, Undergraduate, 2020 - 2021

GGY 406 GAYRİMENKUL VE VARLIK ANALİZLERİ II (AÇIK DERS) 1 kez 3 saat, Postgraduate, 2020 - 2021

SÜRDÜRÜLEBİLİR İNŞAAT, Undergraduate, 2019 - 2020

COMPUTER AIDED DESIGN, Undergraduate, 2018 - 2019

BİLGİSAYAR DESTEKLİ TEKNİK ÇİZİM, Undergraduate, 2018 - 2019

GREEN BUILDING DESIGN AND CONSTRUCTION, Postgraduate, 2018 - 2019

SUSTAINABLE BUILDINGS, Postgraduate, 2017 - 2018

COMPUTER AIDED DRAWING, Undergraduate, 2017 - 2018

YAPI SEKTÖRÜNDE SÜRDÜRÜLEBİLİRLİK:YEŞİL HASTANELER, Postgraduate, 2017 - 2018

STRÜKTÜR I, Undergraduate, 2016 - 2017

BUSINESS ETHICS, Postgraduate, 2016 - 2017

STRUCTURES I, Undergraduate, 2016 - 2017

INT. to ARCHITECTURAL TERMINOLOGY, Undergraduate, 2015 - 2016

TERMINOLOGY FOR ARCHITECTS, Undergraduate, 2015 - 2016

MALZEME ve TEKNOLOJİ, Undergraduate, 2015 - 2016

INTRODUCTION TO DESIGN II, Undergraduate, 2015 - 2016

MATERIAL and TECHNOLOGY, Undergraduate, 2015 - 2016

TASARIMA GİRİŞ II, Undergraduate, 2015 - 2016

MATH for ARCHITECTS, Undergraduate, 2015 - 2016

CE58R SP.TP. SUSTAINABLE BUILDINGS (BOĞAZIÇI ÜNİVERSİTESİ), Undergraduate, 2013 - 2014

CE58R SP.TP. SUSTAINABLE BUILDINGS (BOĞAZIÇI UNIVERSITY), Postgraduate, 2013 - 2014

CE58R SP.TP. SUSTAINABLE BUILDINGS (BOĞAZIÇI ÜNİVERSİTESİ), Postgraduate, 2013 - 2014, 2012 - 2013

NON PROFIT MANAGEMENT, Undergraduate, 2010 - 2011, 2007 - 2008

FUNDRAISING STRATEGIES FOR NGOs, Undergraduate, 2009 - 2010

CONSTRUCTION MANAGEMENT, Postgraduate, 2001 - 2002, 2000 - 2001

Advising Theses

Duygu E., Decarbonization through green retrofit in construction sector: A case study, Postgraduate, Ö.İDİL(Student), Continues

Duygu E., The Application of Sustainable Design Principles to Existing Education Buildings, Postgraduate, E.SILAY(Student), 2021

Duygu E., Vergleich der beiden am markt befindlichen zertifizierungs systeme BREEAM International EU retail und DGNB Handelsbauten Type II am Bersprel eines Shopping Centers in Kayseri, Postgraduate, H.GÜRLEYEN(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **How can green building certification systems cope with the era of climate emergency and pandemics?**
ERTEN D., KILKIŞ B.
Energy and Buildings, vol.256, 2022 (SCI-Expanded)
- II. **How green building performance levels address climate adaptation, climate mitigation and environmental sustainability?**
ERTEN D.
International Journal of Global Warming, vol.28, no.4, pp.375-386, 2022 (SCI-Expanded)
- III. **Smart home innovative heat test analysis for heat storage and conductivity coefficients**
Erten D., Şen Z.
Sustainability (Switzerland), vol.12, no.4, 2020 (SCI-Expanded)
- IV. **Will it happen here?**
ERTEN D., BARDET J.
CIVIL ENGINEERING, vol.69, no.12, pp.0-43, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sıfır Karbon Şehirler ve Sıfır Enerjili Binalar (Ulusal Hakemli Dergi) ÖZEL Sayı-I-Yenilenebilir Enerji**
ERTEN D.
YENİ TÜRKİYE, vol.117, no.27, pp.171-191, 2021 (Peer-Reviewed Journal)
- II. **Towards Zero Waste in Construction: A Case Study Using Green Building Certification Systems**
ERTEN D.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.2, pp.875-888, 2020 (Peer-Reviewed Journal)
- III. **A Roadmap for Localizing and Harmonising Existing Green Building Rating Tools**
ERTEN D.
Journal of Current Researches on Engineering, Science and Technology, vol.4, no.2, pp.179-194, 2020 (Peer-Reviewed Journal)
- IV. **Türkiye için Yeşil Bina Sertifikası ve Çözüm Önerileri**
ERTEN D.
Yapı, no.329, pp.50-55, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Single Family Home Rainwater Harvesting Systems**
ERTEN D.
in: HANDBOOK OF WATER HARVESTING AND CONSERVATION, SAEID ESLAMIAN, Editor, John Wiley & Sons,

Inc., Chichester, pp.5, 2021

- II. **İnşaatta net sifıra doğru**
ERTEN D.
in: AVRUPA YEŞİL MUTABAKATI KAPSAMINDA YEŞİL EKONOMİ, Sezgin H. F., Acı Y. E., Kuşcu A. Rana, Editor, NOBEL AKADEMİK YAYINCILIK, İstanbul, pp.99-127, 2021
- III. **Yeşil işletmelerde Etik ve Sosyal Sorumluluk**
DEMİR E., ALİEFENDİOĞLU Y., HANCIOĞLU Y., YEŞİLAYDIN G., ÇAVUŞ M. F., DEMİREL E. T., ERTEN D., ARI E. S., AYDINLI G., SONSUZ A. A., et al.
in: YEŞİL İŞLETME, Prof. Dr. Yeter USLU, Editor, Nobel Akademik Yayıncılık, Ankara, pp.195-218, 2019
- IV. **Yeşil İşletmenin Kuruluş Süreci**
ERTEN D.
in: YEŞİL İŞLETME, Yeter Uslu, Editor, NOBEL, İstanbul, pp.25-44, 2018
- V. **Yeşil İşletmenin Kuruluş Süreci**
BAYTÖREN E., ÇAVUŞ M. F., DEMİREL E. T., ERTEN D., ARI E. S., DEMİR E., AYDIN G., YEŞİLAYDIN G., HANCIOĞLU Y., TANRIVERMİŞ Y., et al.
in: YEŞİL İŞLETME, DEMİR USLU, YETER, Editor, Nobel Akademik Yayıncılık, Ankara, pp.27-43, 2018
- VI. **Yeşil Bina Tasarımı**
ERTEN D.
in: YEŞİL İŞLETME, Yeter Uslu, Editor, NOBEL, İstanbul, pp.195-218, 2018
- VII. **YEŞİL BİNALAR**
ERTEN D.
TC ÇEVRE VE ŞEHİRCİLİK BAKANLIĞI, Ankara, 2011
- VIII. **Green Buildings**
ELTROP L., ERTEN D., GOLDEMBERG J., KOCH A., PALADINO T., VİSVANATHAN B., BLYTH G.
in: TOWARDS A GREEN ECONOMY GREEN BUILDINGS, P. Rode, Ricky Burdett and Joana Carla Soares Gonçalves, Editor, UNITED NATIONS ENVIRONMENT PROGRAMME, Londrina, pp.335-371, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Insights into Deeper Decarbonization of the Building Environment: Retrofits and Embodied Carbon**
ERTEN D., ÖZSOY İ.
III. Uluslararası Gayrimenkul Geliştirme Ve Yönetimi Konferansı, Ankara, Turkey, 31 January 2023
- II. **Impact of Partial Replacement of In-situ Reinforced Concrete (ISRC) on Materials and Final Embodied Energy of the Building: A Case Study**
ERTEN D., Baykal M. S., Karayığit Ö., Erkan A. D.
7TH INTERNATIONAL PROJECT AND CONSTRUCTION MANAGEMENT CONFERENCE, İstanbul, Turkey, 20 - 22 October 2022, vol.1, pp.1330-1339
- III. **A critical review of tools and barriers for green decision-making**
ERTEN D.
Kent Araştırmaları Kongresi-7, Ankara, Turkey, 16 May 2022, vol.1, pp.1979-1988
- IV. **Key Indicators & Assessment of Sustainable Buildings for (EU) Market Uptake through Housing Green Mortgages**
Paez C., Gonzalez A. G., ERTEN D., Cristoforetti S.
BEYOND 2020 - World Sustainable Built Environment conference, Gothenburg, Sweden, 2 - 12 November 2020
- V. **Biophilic Design:Case studies from Turkey**
ERTEN D., PARLAYAN C., SOYSAL S.
LIVABLE ENVIRONMENT and International Architecture - 6th international congress, Trabzon, Turkey, 25 - 28 September 2019, pp.596-608
- VI. **POTANSİYEL DÖNGÜSEL EKONOMİ FIRSATLARININ TESBİTİ: YEŞİL BİNA SERTİFİKA SİSTEMLERİ İLE BİR VAKA ANALİZİ**

- ERTEN D.
10. ULUSAL KATI ATIK MİLLİ KOMİTESİ KONGRESİ (UYAK), Çanakkale, Turkey, 17 - 18 October 2019, vol.1
- VII. **Beşikten Beşiğe: Sıfır Atığa Doğru İnşaat Sektörü**
ERTEN D.
9. ULUSAL KATI ATIK YÖNETİMİ KONGRESİ, Konya, Turkey, 01 June 2018
- VIII. **Konutta Çevresel Değerlendirme:ÇEDBİK ve BREEAM sistemlerinin karşılaştırmalı analizi**
ERTEN D.
1. KONUT KURULTAYI, İstanbul, Turkey, 10 - 11 May 2018
- IX. **Insights into Hotels with Green Building Certifications**
ERTEN D.
WORLD SUSTAINABLE BUILT ENVIRONMENT CONFERENCE, HONG KONG, Hong Kong, 5 June - 07 July 2017
- X. **Importance of Integrating Green Building Requirements into Design, Construction and Consultant Contracts**
ERTEN D.
SB16, İstanbul, Turkey, 13 - 15 October 2016, vol.1, pp.52-59
- XI. **A Critical review of Green Building Certification Systems Regarding Historical Buildings**
ERTEN D.
SB16, İstanbul, Turkey, 13 - 15 October 2016, vol.1, pp.677-690
- XII. **CO2 Footprint of Geosynthetic Reinforced Retaining Walls**
ERTEN D., GÜLER F. E.
6th European Geosynthetics Congress, Ljubljana, Slovenia, 25 - 28 September 2016, vol.1, pp.1414-1428
- XIII. **Hotels with green building certifications: case studies from Turkey**
ERTEN D.
4th International Conference on Climate, Tourism, Recreation, İstanbul, Turkey, 17 September 2015, vol.1, pp.140-142
- XIV. **GREEN CAMPUS DEVELOPMENT and GREENING EXISTING UNIVERSITY CAMPUSES CASE STUDIES FROM TURKEY**
ERTEN D.
ISBS-2015, Ankara, Turkey, 28 May - 30 April 2015, pp.801-805
- XV. **International Green Building Certification Systems**
ERTEN D.
International Conference on "The problems of Architecture and Urban Planning Today", Tiflis, Georgia, 16 - 19 April 2012
- XVI. **Perspectives From Turkey Sustainable City Making**
BALTACI A., ERTEN D., AROLAT E., AVCI S.
NETHERLANDS ARCHITECTURE INSTITUTE CONFERENCE, Amsterdam, Netherlands, 12 - 14 May 2012, vol.1, pp.79-87
- XVII. **LEED ve BREEAM Sertifikalarında Enerji Performans Değerlendirilmesinin Karşılaştırılması**
YILMAZ A. Z., ERTEN D.
10. Ulusal Tesisat Mühendisliği Kongresi ve Sergisi, İzmir, Turkey, 13 - 16 April 2011
- XVIII. **INTERNATIONAL GREEN BUILDING CERTIFICATION SYSTEMS A COMPARATIVE APPROACH TO LEED AND BREEAM**
ERTEN D.
ISBS-2010, Ankara, Turkey, 20 - 22 May 2010, vol.1
- XIX. **A review of International Green Building Certification Methods A roadmap for a certification system in Turkey**
ERTEN D., KOBAŞ B., KIRK H.
Fifth International Conference on Construction in the 21st Century(CITC-V), İstanbul, Turkey, 20 - 22 May 2009, vol.1, pp.1701-1708
- XX. **A review of Green Building Movement Timelines in Developed and Developing Countries to Build an International Adoption Framework**

KORKMAZ S., ERTEN D., SYAL M., POTBHARE V.

Fifth International Conference on Construction in the 21st Century(CITC-V), Miami, United States Of America, 20 - 22 May 2009

XXI. ESTABLISHING BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS IN TURKEY

ERTEN D., YALÇINER A. C.

A Scientific Assessment and Recommendations for Re-building, United States Of America, 20 - 22 May 1999, pp.205-212

XXII. Liquefaction Potential of Silty Soils

ERTEN D., MAHER M.

7TH INTERNATIONAL CONFERENCE ON SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, Southampton, England, 5 - 07 May 1995, pp.163-173

XXIII. Effect of Fines Content on Liquefaction Potential of Sands

ERTEN D., MAHER M. H.

3rd International Conference on recent advances in Geotechnical Engineering, St. Louis, United States Of America, 3 - 05 April 1995, vol.3, pp.1061-1064

Artistic Activity

ERTEN D., NTV Ortak Gelecek programı, June 2022

ERTEN D., 28. ALTIN ÇEKÜL YAPI KATALOĞU ÖDÜLLERİ, May 2022

ERTEN D., AKDENİZ ÜNİVERSİTESİ ÇEVRE HİZMET ÖDÜLLERİ, April 2022

ERTEN D., IPA III Döneminde "Rekabetçilik ve Kapsayıcı Büyüme" penceresi altındaki "özel sektörün geliştirilmesi, ticaret, araştırma ve inovasyon" üzerine "Döngüsel Yeşil Ekonomi, Kaynak Verimli Üretim ve Kümelenme" ÇALIŞTAY

YÜRÜTÜCÜSÜ, June 2021

ERTEN D., 26. ALTIN ÇEKÜL YAPI KATALOĞU ÖDÜLLERİ, May 2021

ERTEN D., Kentsel Tasarım Proje Yarışması, May 2020