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Education

Doctorate, Anadolu University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, Turkey 1991 - 1996

Postgraduate, Anadolu University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, Turkey 1989 - 1991

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

Research Areas

Hydraulic, Structure, Building Management

Academic Positions

Professor, Ankara University, Uygulamalı Bilimler Fakültesi, Gayrimenkul Geliştirme ve Yönetimi Bölümü, 2023 - Continues

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Drought Forecasting of Seyhan and Ceyhan Basins Using Machine Learning Methods**
Alkan A., Tombul M.
WATER RESOURCES, vol.51, no.1, pp.12-26, 2024 (SCI-Expanded)
- II. **Determining the Relationship of Evapotranspiration with Precipitation and Temperature Over Turkey**
DEMİREL E., Tuna M., Tombul M.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.28, no.3, pp.525-534, 2022 (SCI-Expanded)
- III. **Calibration of METRIC Modeling for Evapotranspiration Estimation Using Landsat 8 Imagery Data**
BARIŞ M., Tombul M.
WATER RESOURCES MANAGEMENT, vol.36, no.1, pp.315-339, 2022 (SCI-Expanded)
- IV. **TEMPORAL DROUGHT ASSESSMENT USING VARIOUS INDICES OF THE SEYHAN AND CEYHAN BASINS, TURKEY**
Alkan A., Tombul M.
APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH, vol.20, no.1, pp.555-569, 2022 (SCI-Expanded)
- V. **The Capacity of the Hybridizing Wavelet Transformation Approach With Data-Driven Models for**

Modeling Monthly-Scale Streamflow

Hadi S. J., Tombul M., Salih S. Q., Al-Ansari N., Yaseen Z. M.
IEEE ACCESS, pp.101993-102006, 2020 (SCI-Expanded)

- VI. **Streamflow Forecasting Using Four Wavelet Transformation Combinations Approaches with Data-Driven Models: A Comparative Study**
Hadi S. J., Tombul M.
WATER RESOURCES MANAGEMENT, vol.32, no.14, pp.4661-4679, 2018 (SCI-Expanded)
- VII. **Forecasting Daily Streamflow for Basins with Different Physical Characteristics through Data-Driven Methods**
Hadi S. J., Tombul M.
WATER RESOURCES MANAGEMENT, vol.32, no.10, pp.3405-3422, 2018 (SCI-Expanded)
- VIII. **Long-term spatiotemporal trend analysis of precipitation and temperature over Turkey**
Hadi S. J., Tombul M.
METEOROLOGICAL APPLICATIONS, vol.25, no.3, pp.445-455, 2018 (SCI-Expanded)
- IX. **Comparison of Spatial Interpolation Methods of Precipitation and Temperature Using Multiple Integration Periods**
Hadi S. J., Tombul M.
JOURNAL OF THE INDIAN SOCIETY OF REMOTE SENSING, vol.46, no.7, pp.1187-1199, 2018 (SCI-Expanded)
- X. **Monthly streamflow forecasting using continuous wavelet and multi-gene genetic programming combination**
Hadi S. J., Tombul M.
JOURNAL OF HYDROLOGY, vol.561, pp.674-687, 2018 (SCI-Expanded)
- XI. **ENVIRONMENTAL RISK DETERMINATION OF FLOOD IN PORSUK RIVER BASIN VIA ONE-DIMENSIONAL MODELLING**
Karaer F., KOPARAL A. S., Tombul M.
APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH, vol.16, no.4, pp.4969-4983, 2018 (SCI-Expanded)
- XII. **Modeling soil temperatures at different depths by using three different neural computing techniques**
Kisi O., Tombul M., Kermani M. Z.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.121, no.1-2, pp.377-387, 2015 (SCI-Expanded)
- XIII. **Extended cubic B-spline solution of the advection-diffusion equation**
IRK D., DAĞ İ., Tombul M.
KSCE JOURNAL OF CIVIL ENGINEERING, vol.19, no.4, pp.929-934, 2015 (SCI-Expanded)
- XIV. **Modeling rainfall-runoff process using soft computing techniques**
Kisi O., Shiri J., Tombul M.
COMPUTERS & GEOSCIENCES, vol.51, pp.108-117, 2013 (SCI-Expanded)
- XV. **Modeling monthly pan evaporations using fuzzy genetic approach**
Kisi O., Tombul M.
JOURNAL OF HYDROLOGY, vol.477, pp.203-212, 2013 (SCI-Expanded)
- XVI. **Mapping field surface soil moisture for hydrological modeling**
Tombul M.
WATER RESOURCES MANAGEMENT, vol.21, no.11, pp.1865-1880, 2007 (SCI-Expanded)
- XVII. **Least-squares finite element method for the advection-diffusion equation**
Dag I., IRK D., Tombul M.
APPLIED MATHEMATICS AND COMPUTATION, vol.173, no.1, pp.554-565, 2006 (SCI-Expanded)
- XVIII. **Transport modelling of copper contamination in groundwater caused by a wood preservation plant**
Tombul M., KOPARAL A. S., Ögütveren Ü.
WATER QUALITY RESEARCH JOURNAL OF CANADA, vol.40, no.4, pp.469-475, 2005 (SCI-Expanded)
- XIX. **Determination of soil hydraulic properties using pedotransfer functions in a semi-arid basin, Turkey**
Tombul M., AKYÜREK S. Z., Sorman A.
HYDROLOGY AND EARTH SYSTEM SCIENCES, no.6, pp.1200-1209, 2004 (SCI-Expanded)
- XX. **The mathematical modelling of total nitrogen contamination transport via groundwater from a sugar**

factory in Eskisehir, Turkey

Tombul M., KOPARAL A. S.

INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION, vol.19, no.2, pp.188-196, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Conceptual Modflow Model Application with Boundary Condition Analysis**
Temelli S. U., Tombul M.
Engineering And Technology Journal, vol.9, no. Issue 09, pp.5218-5227, 2024 (Peer-Reviewed Journal)
- II. **A review on models, products and techniques for evapotranspiration measurement, estimation, and validation**
BARIŞ M., TOMBUL M.
ENVIRONMENTAL QUALITY MANAGEMENT, vol.34, pp.1-17, 2024 (Scopus)
- III. **Determining The Sustainable Economic Level of Physical Losses in Drinking Water Networks: Case of Merzifon**
TOMBUL M., TUNA M., Armut S.
İdealkent, vol.14, pp.289-314, 2022 (Peer-Reviewed Journal)
- IV. **The Trends of the Standardized Precipitation and Evapotranspiration Index (SPEI) in Turkey**
Jamal R., Hadi S. J., TOMBUL M.
GEOGRAPHY AND NATURAL RESOURCES, vol.43, no.1, pp.87-95, 2022 (ESCI)
- V. **Bölgesel Güneş Enerji Potansiyeli ve Enerji Santrali Yatırımı Değerlemesi: Sincan Örneği**
Varlı H., TUNA M., TOMBUL M.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.34, no.2, pp.657-666, 2022 (Peer-Reviewed Journal)
- VI. **Determining Level of Leakage in Drinking Water Networks: The Case of Mezrifon District**
TUNA M., Armut S., Tombul M.
Kent Akademisi (Online), vol.16, no.1, pp.1-17, 2021 (Peer-Reviewed Journal)
- VII. **Akarçay Havzası ve Van Gölü Havzası için 1901-2015 Yılları Arasında Standart Yağış İndeksi'ne (SPI) Göre Trend Analizi**
Kuzay M., TOMBUL M.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.7, no.1, pp.51-61, 2020 (Peer-Reviewed Journal)
- VIII. **Analyzing the historical rainfall observations and examining the floodevent of Hopa Turkey**
Hadi S. J., TOMBUL M.
International Journal of Environmental Science, vol.1, no.1, pp.278-283, 2016 (Peer-Reviewed Journal)
- IX. **Akarçay havzası için entegre su kaynakları yönetiminin belirlenmesinde weap water evaluation and planningsystem modelinin uygulaması**
YILMAZ H., TOMBUL M.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.7, no.2, pp.271-278, 2016 (Peer-Reviewed Journal)

Books

- I. **Energy Efficient Through Near-Zero Energy Building Approach Across the Lifecycle of Existing Public Buildings**
GÜNEŞ S., TOMBUL M.
in: Advancing Through Applied Science and Technology , Serkan GÜLDAL, Editor, İksad Yayınevi, Ankara, pp.5-37, 2023

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **The Role of Window Sizes in Time Series Analysis: An Evaluation for Energy Consumption Prediction in Public Buildings**
GÜNEŞ S., TOMBUL M.
4. International World Energy Conference, Kayseri, Turkey, 6 - 09 December 2024, (Full Text)
- II. **Mevcut Kamu Binalarının Yaşam Döngüsü Boyunca Yaklaşık Sıfır Enerjili Bina Yaklaşımı ile Enerji Verimliliği**
GÜNEŞ S., TOMBUL M.
III. Uluslararası Gayrimenkul Geliştirme ve Yönetimi Konferansı ICREDM2023, Ankara, Turkey, 1 - 04 February 2023, (Full Text)
- III. **Impact of Urban Flood on Residential Real Estate Development and Management**
Shafi S., Tombul M.
III. International Conference on Real Estate Development and Management, Ankara, Turkey, 1 - 04 February 2023, vol.2, pp.267-276
- IV. **ÜNİVERSİTE KAMPÜS BİNALARINDA ENERJİ TÜKETİMİ TAHMİNİ İÇİN GRİ KUTU YAKLAŞIMI**
GÜNEŞ S., TOMBUL M.
3 rd International World Energy Conference, Ankara, Turkey, 4 - 05 December 2023, pp.595-695, (Full Text)
- V. **YAPAY SİNİR AĞLARI YÖNTEMİ KULLANILARAK BARAJ REZERVUARINDAN BUHARLAŞMA TAHMİNİ YAPILMASI**
Özge T., TOMBUL M.
VII. ULUSLARARASI BATTALGAZİ BİLİMSEL ÇALIŞMALAR KONGRESİ, Malatya, Turkey, 28 January 2022, pp.77-83, (Full Text)
- VI. **Determination of Environmental Cost in Urban Wastewater Systems Based on the Polluter Pays Principle: The Case of Merzifon District (Amasya Province, Türkiye)**
ARMUT S., TOMBUL M., TUNA M.
7 th CONFERENCE OF INTERDISCIPLINARY RESEARCH ON REAL ESTATE, Ankara, Turkey, 14 - 15 October 2022
- VII. **Homogeneity and Trend Analysis of Rainfall and Streamflow of Seyhan Basin (Turkey)**
Hadi S. J., Hadi A. J., Ismail K. S., TOMBUL M.
Conference of the Arabian Journal of Geosciences, 15 November 2018, pp.17-19, (Full Text)
- VIII. **COMBINING PEDOTRANSFER FUNCTIONS AND SCALING FOR DESCRIBING THE SOIL HYDRAULIC CHARACTERISTICS OF THE KURUKAVAK BASIN, TURKEY**
TOMBUL M.
17 International Multidisciplinary Scientific GeoConference SGEM 2017, Bulgaria, 29 June - 05 July 2017, vol.17, pp.137-144
- IX. **Conversion of CruTS 3.23 data and evaluation of precipitation and temperature variables in a local scale**
Hadi S. J., TOMBUL M.
The International Conference on Advances in Sustainable Construction Materials Civil Engineering Systems (ASCMCES-17), United Arab Emirates, 18 - 20 April 2017, vol.120, pp.1-11, (Full Text)
- X. **Analyzing trend and developing an empirical formula for estimating rainfall intensity: a case study Eskisehir city, Turkey.**
Hadi S. J., TOMBUL M.
The International Conference on Advances in Sustainable Construction Materials Civil Engineering Systems (ASCMCES-17), 18 - 20 April 2017, vol.120, pp.5003
- XI. **Eskişehir İli Yağmur Suyu Karakterizasyonu**
BAYRAKCI KAREL F., KARAER F., TOMBUL M., KOPARAL A. S.
International Symposium of Water and Wastewater Management, 26 - 28 October 2016, (Full Text)
- XII. **Analyzing the historical rainfall observations and examining the flood event of Hopa Turkey**
HADI S. J., TOMBUL M.
4th International Conference on Natural Resource Management (NRM '16), 28 - 30 September 2016
- XIII. **Developing an Empirical Formula for Estimating Rainfall Intensity by Developing Intensity Duration Frequency Relationships**

AL DOORİ S. J. H., TOMBUL M.

7th International Conference on Urban Rehabilitation and Sustainability (URES '15), Rome, Italy, 7 - 09 November 2015, vol.42, (Full Text)

Metrics

Publication: 43

Citation (WoS): 584

Citation (Scopus): 613

H-Index (WoS): 13

H-Index (Scopus): 13

Awards

Tombul M., Derakhshandeh M., Koparal A. S., Gümüş Madalya_6. İstanbul Uluslararası Buluş Fuarı, Türk Patent Ve Marka Ofisi, January 2021