

Prof. Turgay Partal

Personal Information

Email: turgay.partal@omu.edu.tr

Web: <https://avesis.omu.edu.tr/turgay.partal>

International Researcher IDs

ORCID: 0000-0002-3779-441X

Yoksis Researcher ID: 41655

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Hidrolik Ve Su Kaynakları Mühendisliği (Dr), Turkey
2003 - 2007

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Su Mühendisliği (YI) (Tezli), Turkey 2000 - 2003

Undergraduate, Yıldız Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1994 - 1998

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Türkiye yağış miktarlarının yapay sinir ağları ve dalgacık dönüşümü yöntemleri ile tahmini, Istanbul Technical University, Fen Bilimleri Enstitüsü, Hidrolik Ve Su Kaynakları Mühendisliği (Dr), 2007

Postgraduate, Türkiye yağış verilerinin trend analizi, Istanbul Technical University, Fen Bilimleri Enstitüsü, Su Mühendisliği (YI) (Tezli), 2003

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2019 - Continues

Associate Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - 2019

Associate Professor, Kütahya Dumlupınar University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2011 - 2014

Assistant Professor, Kütahya Dumlupınar University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2008 - 2011

Research Assistant, Kütahya Dumlupınar University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2007 - 2008

Research Assistant, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2000 - 2007

Research Assistant, Kütahya Dumlupınar University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1999 - 2000

Academic and Administrative Experience

Ondokuz Mayıs University, 2014 - Continues

Courses

Su temini mühendisliği, Undergraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019
Hidrolojik Modeller, Postgraduate, 2022 - 2023, 2021 - 2022, 2015 - 2016, 2014 - 2015
Hareketli tabanlı akımların hidrolöği, Postgraduate, 2022 - 2023, 2019 - 2020, 2016 - 2017, 2015 - 2016
İstatistik, Undergraduate, 2022 - 2023
Hidrolik, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019
Akışkanlar Mekaniği, Undergraduate, 2021 - 2022, 2018 - 2019
Barajlar, Undergraduate, 2021 - 2022, 2016 - 2017, 2014 - 2015
Barajlar ve Hidrolik esasları, Postgraduate, 2021 - 2022
Taşkın ve Kuraklık Hidrolojisi, Postgraduate, 2021 - 2022, 2016 - 2017, 2015 - 2016
BARAJLAR VE HİDROLİK ESASLAR, Postgraduate, 2018 - 2019, 2016 - 2017, 2014 - 2015
SU TEMİNİ VE UZAKLAŞTIRMA ESASLARI I, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
SU TEMİNİ VE UZAKLAŞTIRMA ESASLARI II, Undergraduate, 2016 - 2017, 2014 - 2015
DENİZE DEŞARJ YAPILAR, Undergraduate, 2016 - 2017, 2015 - 2016
NEHİR HİDROLİĞİ, Undergraduate, 2016 - 2017, 2014 - 2015
SU YAPILARI, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Kuraklık Analizi, Doctorate, 2016 - 2017
Hidrolojide stokastik modeller, Doctorate, 2016 - 2017
SU TEMİNİNDE ÇÖZÜMLEME, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
SU TEMİNİ, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
Hidrolojide Sayısal Uygulamalar, Postgraduate, 2013 - 2014
Hidrolojik sistemlerin Modellenmesi, Postgraduate, 2013 - 2014
Akarsu Hidrolöği, Postgraduate, 2013 - 2014
Hidrolojik Modeller, Undergraduate, 2013 - 2014
ATIKSULARIN UZAKLAŞTIRILMASI, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
Baraj Tasarımı, Postgraduate, 2013 - 2014
İSTATİSTİK, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
HİDROLOJİK SİSTEMLERİN ANALİZİ, Undergraduate, 2012 - 2013, 2011 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Drought trend and variability based wavelet transform in Euphrates-Tigris Basin, Türkiye**
Yaşa İ., Partal T.
ATMOSPHERIC RESEARCH, vol.302, 2024 (SCI-Expanded)
- II. **New hybrid GR6J-wavelet-based genetic algorithm-artificial neural network (GR6J-WGANN) conceptual-data-driven model approaches for daily rainfall-runoff modelling**
Sezen C., Partal T.
NEURAL COMPUTING & APPLICATIONS, vol.34, no.20, pp.17231-17255, 2022 (SCI-Expanded)
- III. **Two integrated conceptual-wavelet-based data-driven model approaches for daily rainfall-runoff modelling**
Sezen C., Partal T.
JOURNAL OF HYDROINFORMATICS, vol.24, no.5, pp.949-975, 2022 (SCI-Expanded)
- IV. **The utilisation of conceptual and data-driven models for hydrological modelling in semi-arid and humid areas of the Antalya basin in Turkey**
Sezen C., Partal T.
ACTA GEOPHYSICA, vol.70, no.2, pp.897-915, 2022 (SCI-Expanded)
- V. **The effects of Mediterranean oscillation on temperature and precipitation data in Turkey**
Cenk S., Turgay P.
JOURNAL OF WATER AND CLIMATE CHANGE, vol.11, no.3, pp.722-743, 2020 (SCI-Expanded)
- VI. **Wavelet combined innovative trend analysis for precipitation data in the Euphrates-Tigris basin, Turkey**

Sezen C., Partal T.

HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, vol.65, no.11, pp.1909-1927, 2020 (SCI-Expanded)

VII. **The impacts of Arctic oscillation and the North Sea Caspian pattern on the temperature and precipitation regime in Turkey**

Sezen C., Partal T.

METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.131, no.6, pp.1677-1696, 2019 (SCI-Expanded)

VIII. **The utilization of a GR4J model and wavelet-based artificial neural network for rainfall-runoff modelling**

Sezen C., Partal T.

WATER SUPPLY, vol.19, no.5, pp.1295-1304, 2019 (SCI-Expanded)

IX. **Wavelet-based analysis of global index effects in air temperature and precipitation data of the Black Sea coast**

Partal T., Sezen C.

JOURNAL OF WATER AND CLIMATE CHANGE, vol.10, no.2, pp.402-418, 2019 (SCI-Expanded)

X. **Multi-annual analysis and trends of the temperatures and precipitations in West Anatolia**

Partal T.

JOURNAL OF WATER AND CLIMATE CHANGE, vol.8, no.3, pp.456-473, 2017 (SCI-Expanded)

XI. **Wavelet regression and wavelet neural network models for forecasting monthly streamflow**

Partal T.

JOURNAL OF WATER AND CLIMATE CHANGE, vol.8, no.1, pp.48-61, 2017 (SCI-Expanded)

XII. **Intra-seasonal variability and wavelet characteristics of lake evaporation in comparison with hydro-meteorological data at Lake Keban (Turkey)**

Partal T.

HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, vol.61, no.13, pp.2455-2464, 2016 (SCI-Expanded)

XIII. **Comparison of Wavelet Based Hybrid Models for Daily Evapotranspiration Estimation using Meteorological Data**

Partal T.

KSCE JOURNAL OF CIVIL ENGINEERING, vol.20, no.5, pp.2050-2058, 2016 (SCI-Expanded)

XIV. **Daily precipitation predictions using three different wavelet neural network algorithms by meteorological data**

Partal T., Cigizoglu H. K., Kahya E.

STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.29, no.5, pp.1317-1329, 2015 (SCI-Expanded)

XV. **Wavelet analysis and multi-scale characteristics of the runoff and precipitation series of the Aegean region (Turkey)**

Partal T.

International Journal of Climatology, vol.32, no.1, pp.108-120, 2012 (SCI-Expanded)

XVI. **Wavelet and neuro-fuzzy conjunction model for streamflow forecasting**

Kişi Ö., Partal T.

Hydrology Research, vol.42, no.6, pp.447-456, 2011 (SCI-Expanded)

XVII. **Modelling evapotranspiration using discrete wavelet transform and neural networks**

Partal T.

Hydrological Processes, vol.23, no.25, pp.3545-3555, 2009 (SCI-Expanded)

XVIII. **Prediction of daily precipitation using wavelet-neural networks**

Partal T., Cigizoglu H. K.

Hydrological Sciences Journal, vol.54, no.2, pp.234-246, 2009 (SCI-Expanded)

XIX. **River flow forecasting using different artificial neural network algorithms and wavelet transform**

Partal T.

Canadian Journal of Civil Engineering, vol.36, no.1, pp.26-39, 2009 (SCI-Expanded)

- XX. **Estimation and forecasting of daily suspended sediment data using wavelet-neural networks**
Partal T, Cigizoglu H. K.
Journal of Hydrology, vol.358, no.3-4, pp.317-331, 2008 (SCI-Expanded)
- XXI. **Wavelet and neuro-fuzzy conjunction model for precipitation forecasting**
Partal T, Kişi Ö.
Journal of Hydrology, vol.342, no.1-2, pp.199-212, 2007 (SCI-Expanded)
- XXII. **Long-term trend analysis using discrete wavelet components of annual precipitations measurements in Marmara region (Turkey)**
Partal T., Küçük M.
Physics and Chemistry of the Earth, vol.31, no.18, pp.1189-1200, 2006 (SCI-Expanded)
- XXIII. **Trend analysis in Turkish precipitation data**
Partal T., Kahya E.
Hydrological Processes, vol.20, no.9, pp.2011-2026, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Trend Analysis of Drought Severity in Southeast Region of Türkiye**
YAŞA İ., PARTAL T.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.2, pp.681-695, 2024 (Peer-Reviewed Journal)
- II. **Low Streamflow Analysis in Yeşilirmak Basin**
Özkan S., Partal T.
Doğal Afetler ve Çevre Dergisi, vol.10, no.1, pp.77-88, 2024 (Peer-Reviewed Journal)
- III. **The Impacts of Global Atmospheric Oscillations on Büyük Menderes and Gediz Streamflows**
KEBAPCIOĞLU E., PARTAL T.
Doğal Afetler ve Çevre Dergisi, vol.8, no.1, pp.1-13, 2022 (Peer-Reviewed Journal)
- IV. **Utilization of Stochastic, Artificial Neural Network, and Wavelet Combined Models for Monthly Streamflow**
SEZEN C., PARTAL T.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.8, no.1, pp.228-240, 2021 (Peer-Reviewed Journal)
- V. **DETERMINATION OF THE IMPACTS OF NORTH ATLANTIC OSCILLATION AND ARCTIC OSCILLATION ON YEŞİLIRMAK AND KIZILIRMAK BASIN FLOWS**
KEBAPCIOĞLU E., PARTAL T.
DSİ Teknik Bülteni, vol.0, no.138, pp.27-35, 2021 (Peer-Reviewed Journal)
- VI. **Karadeniz bölgesinde yıllık yağış ve sıcaklık verilerinin yenilikçi şen ve mann-kendall yöntemleri ile trend analizi**
Tokgöz S., PARTAL T.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.1107-1118, 2020 (Peer-Reviewed Journal)
- VII. **Applying trend analysis on drought indices in the Central Black Sea and Eastern Black Sea Region**
PARTAL T., YAVUZ E.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.2, pp.851-861, 2020 (Peer-Reviewed Journal)
- VIII. **Orta Karadeniz ve Doğu Karadeniz bölgesinde kuraklık indisleri üzerine trend analizi**
PARTAL T., YAVUZ E.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.2, pp.851-861, 2020 (Peer-Reviewed Journal)
- IX. **Batı Karadeniz Bölgesinde Kuraklık İndisleri Üzerine Trend Analizi Uygulanması**
PARTAL T., YAVUZ E.
JOURNAL OF NATURAL HAZARDS AND ENVIRONMENT, vol.6, pp.345-353, 2020 (Peer-Reviewed Journal)
- X. **The Influences of Arctic North Atlantic Oscillations on Temperature and Precipitation Data of Eastern and Northern Marmara**

- SEZEN C., PARTAL T.
Turkish Journal of Water Science and Management, vol.3, no.2, pp.16-27, 2019 (Peer-Reviewed Journal)
- XI. **Wavelet based periodical analysis of the precipitation data of the Mediterranean Region and its relation to atmospheric indices**
Partal T.
MODELING EARTH SYSTEMS AND ENVIRONMENT, vol.4, no.4, pp.1309-1318, 2018 (ESCI)
- XII. **Sinop İline Ait Aylık ve Yıllık Yağış Yükseklikleri ile Standart Süreli Yağış Şiddetlerinin Farklı Trend Analizi Yöntemleriyle Değerlendirilmesi**
ZEYBEKOĞLU U., PARTAL T.
İklim Değişikliği ve Çevre, vol.3, no.1, pp.1-8, 2018 (Peer-Reviewed Journal)
- XIII. **ORTA KARADENİZ BÖLGESİNDE YAĞIŞLARIN PERİYODİK ANALİZİ**
PARTAL T.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.6, no.3, pp.495-503, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **SAMSUN İLİNDE HİDROMETEOROLOJİK VERİLERİNİN AYLIK, SEZONLUK VEYILLIK DEĞİŞİMLERİ VE KURAKLIK**
YAŞA İ., PARTAL T.
12. Hidroloji Kongresi, Samsun, Turkey, 16 October 2024, vol.1, pp.295-297
- II. **Trend Analysis of Somali Precipitation Data**
ABDILAHİ H. A., PARTAL T.
2nd International Congress of Engineering and Natural Sciences Studies, Turkey, 07 May 2022
- III. **Daily rainfall-runoff modelling by Support Vector Regression, Symbolic Regression and GR4J Models**
SEZEN C., PARTAL T.
The 11th Eastern European Young Water Professionals Conference, 1 - 05 October 2019
- IV. **The Comparison of Wavelet Based Artificial Neural Network (WANN) and GR4J Model for Rainfall-Runoff Modelling**
SEZEN C., PARTAL T.
10th Eastern European Young Water Professionals Conference, Croatia, 7 - 12 May 2018, pp.159-166
- V. **The Application Of Monthly Hydrological Conceptual Model For Rainfall-Runoff Modeling**
SEZEN C., PARTAL T.
Uluslararası Su ve Çevre Kongresi, 22 - 24 March 2018
- VI. **THE COMPARISON OF ARCTIC OSCILLATION (AO) AND NORTH ATLANTIC OSCILLATION (NAO) IN TERMS OF THEIR INFLUENCES ON TEMPERATURE AND PRECIPITATION REGIME OF MARMARA REGION IN TURKEY**
SEZEN C., PARTAL T.
Uluslararası Su ve Çevre Kongresi, 22 - 24 March 2018
- VII. **Evaluated of Monthly Total Annual Mean and Rainfall Intensity Series of Standart Duration of Sinop by Different Trend Analysis Methods**
ZEYBEKOĞLU U., PARTAL T.
International Water and Environment Congress, Bursa, Turkey, 22 - 24 March 2018, pp.249-257
- VIII. **THE RELATION OF NORTH ATLANTIC OSCILLATION (NAO) AND NORTH SEA CASPIAN PATTERN (NCP) WITH CLIMATE VARIABLES IN MEDITERRANEAN REGION OF TURKEY**
SEZEN C., PARTAL T.
International Conference on Technology, Engineering and Science (IConTES), 26 October 2017
- IX. **A WAVELET TRANSFORMATION-GENETIC ALGORITHM-ARTIFICIAL NEURAL NETWORK COMBINED MODEL FOR PRECIPITATION FORECASTING**
SEZEN C., PARTAL T.
International Conference on Technology, Engineering and Science (IConTES), 26 - 29 October 2017

- X. **A GENETIC ALGORITHM-WAVELET TRANSFORM-ARTIFICIAL NEURAL NETWORK- COMBINED MODEL FOR PRECIPITATION FORECASTING**
SEZEN C., PARTAL T.
International Conference on Technology, Engineering and Science (IconTES), 26 - 29 October 2017
- XI. **The Effects of North Sea Caspian Pattern Index on the Temperature and Precipitation Regime in the Aegean Region of Turkey**
SEZEN C., PARTAL T.
World Academy of Science, Engineering and Technology International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, Netherlands, 14 - 15 May 2017, vol.11, pp.356-360
- XII. **Akım tahmininde dalgacık bileşenleri ve ileri beslemeli yapay sinir ağlarının birlikte kullanılması**
PARTAL T.
Bilimde Modern yöntemler sempozyumu 2010, Turkey, 14 - 16 October 2010
- XIII. **Yağış tahmininde yapay sinir ağları ve dalgacık dönüşümünün birlikte kullanılması**
PARTAL T., CİĞİZOĞLU H. K., KAHYA E.
V. Ulusal hidroloji kongresi, Turkey, 5 - 07 September 2007
- XIV. **Akım verilerinin periyodik yapısının dalgacık dönüşümü tekniği kullanılarak incelenmesi**
CENGİZ T. M., PARTAL T.
1. Ulusal taşkın sempozyumu, Turkey, 10 - 12 May 2006
- XV. **Göller bölgesi yağış verilerinin trend analizi**
PARTAL T., KAHYA E., KARACA M.
1. Ulusal Su Mühendisliği Sempozyumu, İzmir, Turkey, 22 September - 25 October 2003
- XVI. **Yapay Sinir ağları ve otoregresif modellerle rüzgar hızı tahmini**
KİŞİ Ö., PARTAL T.
III. Atmosfer bilimleri sempozyumu, Turkey, 20 March 2003