

Assoc. Prof. MURAT AY

Personal Information

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International Researcher IDs

ScholarID: 2bkqVx8AAAAJ

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ScopusID: 55453467300

Yoksis Researcher ID: 20091

Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), Turkey 2010 - 2014

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Turkey 2007 - 2010

Undergraduate, Celâl Bayar Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Su kalitesi parametrelerinin yapay zekâ yöntemleri ile değerlendirilmesi, Erciyes University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), 2014

Postgraduate, Sulama suyu kalitesinin kümelemeye dayalı bulanık sistem ile sınıflandırılması, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), 2010

Research Areas

Civil Engineering, Hydraulic, Surface Water Engineering, Hydrology, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, 2022 - Continues

Assistant Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, 2014 - Continues

Research Assistant, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, 2008 - 2014

Academic and Administrative Experience

Yozgat Bozok University, 2016 - Continues

Deputy Head of Department, Yozgat Bozok University, 2019 - 2022

Courses

MÜHENDİSLİK İSTATİSTİĞİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

HİDROLİK, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

İNŞAAT MÜHENDİSLİĞİ ARAŞTIRMA PROJESİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

SU YAPILARI 2, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

AKIŞKANLAR MEKANİĞİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

BİTİRME ÖDEVİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

TEZ ÇALIŞMASI, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

UZMANLIK ALAN DERSİ, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

SU YAPILARI 1, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

HİDROLOJİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Hidrolojide İstatistik Yöntemler, Postgraduate, 2019 - 2020

YAPAY SİNİR AĞLARININ İNŞAAT MÜHENDİSLİĞİNDE UYGULAMALARI, Undergraduate, 2018 - 2019

YAPAY ZEKA TEKNİKLERİNİN PORGRAMLANMASI 1, Doctorate, 2017 - 2018

YAPAY SİNİR AĞLARININ İNŞAAT MÜHENDİSLİĞİNDE UYGULAMALARI, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

BULANIK MANTIĞIN İNŞAAT MÜH. UYGULAMALARI, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

YAPAY ZEKA TEKNİKLERİNİN PORGRAMLANMASI 2, Doctorate, 2017 - 2018

BARAJLAR, Undergraduate, 2015 - 2016

TEMEL BİLGİ TEKNOLOJİLERİ, Undergraduate, 2015 - 2016, 2014 - 2015

MESLEKİ YABANCI DİL, Undergraduate, 2015 - 2016, 2014 - 2015

Advising Theses

AY M., Sivas 4 Eylül Barajının yıkılma senaryolarına göre taşkın analizi ve taşkın tehlike raporunun hazırlanması, Postgraduate, B.KARATAŞ(Student), 2019

AY M., İç Anadolu Bölgesinde sıcaklık ve yağış değişkenlerinin eğilim analizi, Postgraduate, S.ÖZYILDIRIM(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Trend of minimum monthly precipitation for the East Anatolia region in Turkey**
AY M.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.148, no.1-2, pp.603-615, 2022 (SCI-Expanded)
- II. **Trend tests on maximum rainfall series by a novel approach in the Aegean region, Turkey**
AY M.
METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.133, no.4, pp.1041-1055, 2021 (SCI-Expanded)
- III. **Trend and homogeneity analysis in temperature and rainfall series in western Black Sea region, Turkey**
AY M.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.139, pp.837-848, 2020 (SCI-Expanded)
- IV. **Estimation of dissolved oxygen by using neural networks and neuro fuzzy computing techniques**
AY M., Kisi O.
KSCE JOURNAL OF CIVIL ENGINEERING, vol.21, no.5, pp.1631-1639, 2017 (SCI-Expanded)
- V. **Trend Analysis of Streamflows at Some Gauging Stations Over the Kizilirmak River**

- AY M., Kisi O.
TEKNIK DERGI, vol.28, no.2, pp.7779-7794, 2017 (SCI-Expanded)
- VI. **Investigation of trend analysis of monthly total precipitation by an innovative method**
AY M., Kisi O.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.120, pp.617-629, 2015 (SCI-Expanded)
- VII. **Comparison of Mann-Kendall and innovative trend method for water quality parameters of the Kizilirmak River, Turkey**
Kisi O., AY M.
JOURNAL OF HYDROLOGY, vol.513, pp.362-375, 2014 (SCI-Expanded)
- VIII. **Modelling of chemical oxygen demand by using ANNs, ANFIS and k-means clustering techniques**
AY M., Kisi O.
JOURNAL OF HYDROLOGY, vol.511, pp.279-289, 2014 (SCI-Expanded)
- IX. **Modeling of Dissolved Oxygen Concentration Using Different Neural Network Techniques in Foundation Creek, El Paso County, Colorado**
AY M., Kisi O.
JOURNAL OF ENVIRONMENTAL ENGINEERING, vol.138, no.6, pp.654-662, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Modeling of Asphalt Pavement Surface Temperature for Prevention of Icing on the Surface**
Akbulut H., ATILGAN GEVREK L., AY M.
Turkish Journal of Civil Engineering, vol.35, no.2, pp.1-21, 2024 (Scopus)
- II. **Artificial intelligence (AI) studies in water resources**
AY M., Özyıldırım S.
Natural and Engineering Sciences, vol.3, no.2, pp.187-195, 2018 (Peer-Reviewed Journal)
- III. **Yozgat ili için aylık doğal gaz tüketiminin modellenmesi ve eğilim analizi**
AY M.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.23, no.1, pp.1-16, 2018 (Peer-Reviewed Journal)
- IV. **Comparison of Mann-Kendall and Sen's innovative trend tests on measured monthly flows series of some streams in Euphrates-Tigris Basin**
AY M., KARACA Ö. F., YILDIZ A. K.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.34, no.1, pp.78-86, 2018 (Peer-Reviewed Journal)
- V. **Trend Analysis of Monthly Total Rainfall and Monthly Mean Air Temperature Variables of Yozgat in Turkey**
AY M., ÖZYILDIRIM S.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.32, no.2, pp.65-76, 2017 (Peer-Reviewed Journal)
- VI. **Debi ve sediment değişkenlerinin trend analizi**
AY M., KİŞİ Ö.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.7, no.2, pp.169-180, 2016 (Peer-Reviewed Journal)
- VII. **Modelling COD concentration by using different artificial intelligence methods**
AY M., KİŞİ Ö.
Journal of Selçuk University Natural and Applied Sciences, vol.2, pp.477-489, 2013 (Peer-Reviewed Journal)
- VIII. **Betonarme dolgu duvar etkisinin incelenmesi**
MUHAMMED D. T., ERHAN A., AY M.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.3, no.1, pp.95-104, 2007 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Performance of artificial intelligence in civil engineering

Ay M., Manav S.

YOBU International middle anatolian symposium, Yozgat Bozok University(YOBU), , Yozgat, Turkey, 16 - 18 May 2024, vol.1, no.1, pp.1-2

Supported Projects

Ay M., Yıldız A. K., Karaca Ö. F., Project Supported by Higher Education Institutions, 2015 - 2017

Metrics

Publication: 18

Citation (WoS): 352

Citation (Scopus): 596

H-Index (WoS): 6

H-Index (Scopus): 6

Non Academic Experience

ÖZBELSAN İnşaat Şirketi, Sivas/Merkez

FERNAS Şirketler Grubu