

## Asst. Prof. MURAT AY

### Personal Information

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### 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

### 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

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, 2019 - Continues

Yozgat Bozok University, 2016 - Continues

### Courses

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

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

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

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

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

BİTİRME ÖDEVİ, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021  
TEZ ÇALIŞMASI, Postgraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021  
UZMANLIK ALAN DERSİ, Postgraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021  
SU YAPILARI 1, Undergraduate, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021  
HİDROLOJİ, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021  
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, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018  
BULANIK MANTIĞIN İNŞAAT MÜH. UYGULAMALARI, Postgraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018  
YAPAY ZEKA TEKNİKLERİNİN PORGRAMLANMASI 2, Doctorate, 2017 - 2018  
BARAJLAR, Undergraduate, 2015 - 2016  
TEMEL BİLGİ TEKNOLOJİLERİ, Undergraduate, 2014 - 2015, 2015 - 2016  
MESLEKİ YABANCI DİL, Undergraduate, 2014 - 2015, 2015 - 2016

## 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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Trend tests on maximum rainfall series by a novel approach in the Aegean region, Turkey**  
AY M.  
METEOROLOGY AND ATMOSPHERIC PHYSICS, 2021 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Artificial intelligence (AI) studies in water resources**  
AY M., Özyıldırım S.  
Natural and Engineering Sciences, vol.3, no.2, pp.187-195, 2018 (Other Refereed National Journals)
- II. **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 (Other Refereed National Journals)
- III. **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 (Other Refereed National Journals)
- IV. **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 (Other Refereed National Journals)
- V. **Debi ve sediment değişkenlerinin trend analizi**  
AY M., KİŞİ Ö.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.7, no.2, pp.169-180, 2016 (Other Refereed National Journals)
- VI. **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 (Other Refereed National Journals)
- VII. **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 (Other Refereed National Journals)

## Supported Projects

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

## Citations

Total Citations (WOS):298

h-index (WOS):6