Res. Asst. BANU YILMAZ

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2016 - Continues
Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi/ İnşaat, İnşaat Mühendisliği, Turkey 2013 - 2016
Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi/ İnşaat, İnşaat Mühendisliği, Turkey 2009 - 2013

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Postgraduate, ÇORUH NEHRİ HAVZASI'NDA TAŞINAN ASKIDA KATI MADDE YÜKÜNÜN FARKLI YAPAY ZEKA TEKNİKLERİ İLE MODELLENMESİ, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2016

Research Areas

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

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A CMIP6-ensemble-based evaluation of precipitation and temperature projections**
YILMAZ B., Aras E., Nacar S.
THEORETICAL AND APPLIED CLIMATOLOGY, 2024 (SCI-Expanded)

II. **Prediction of suspended sediment loading by means of hybrid artificial intelligence approaches**
YILMAZ B., Aras E., Kankal M., NACAR S.
ACTA GEOPHYSICA, vol.67, no.6, pp.1693-1705, 2019 (SCI-Expanded)

III. **Biochemical oxygen demand prediction in wastewater treatment plant by using different regression analysis models**
Baki O. T., Aras E., Özel Akdemir Ü., Yılmaz B.
DESALINATION AND WATER TREATMENT, vol.157, pp.79-89, 2019 (SCI-Expanded)

IV. **Estimating suspended sediment load with multivariate adaptive regression spline, teaching-learning based optimization, and artificial bee colony models**
YILMAZ B., Aras E., NACAR S., Kankal M.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.639, pp.826-840, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **SUSPENDED SEDIMENT LOAD PREDICTION IN RIVERS BY USING HEURISTIC REGRESSION AND HYBRID ARTIFICIAL INTELLIGENCE MODELS**
YILMAZ B., Aras E., KANKAL M., NACAR S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.2, pp.703-714, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Evaluation of the impact of climate change on monthly mean temperature at the dam basin scale**
Yılmaz B., Aras E., Nacar S.
International Civil Engineering and Architecture Congress , Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.573-582

II. **Statistical Downscaling of Monthly Mean Air Temperature Using ERA5 Re-analysis Data: A Case Study for Altınkaya Dam**
Yılmaz B., Aras E., Nacar S.
HİDRO'2023: Ulusal Hidrojeoloji ve Su Kaynakları Sempozyumu, Trabzon, Turkey, 25 - 27 May 2023, pp.21-28

III. **Atıksu Arıtma Tesislerinde Biyokimyasal Oksijen İhtiyacının FarklıRegresyon Analizi Yöntemleri ile Tahmini**
BAKİ O. T., ARAS E., YILMAZ B.
International Symposium on Urban Water and Wastewater Management, Denizli, Turkey, 25 - 27 October 2018, vol.1, pp.1001-1007

IV. **Comparison of Performances of Teaching Learning-Based Optimization and Classical Regression for Suspended Sediment Prediction**
YILMAZ B., ARAS E., BAKİ O. T.
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İzmir, Turkey, 12 - 14 September 2018

V. **Modelling of Biochemical Oxygen Demand on Wastewater Treatment Plant by Using Artificial Neural Networks: Antalya Hurma Wastewater Treatment Plant Example**
BAKİ O. T., ARAS E., YILMAZ B.
ICOCEE, Nevşehir, Turkey, 8 - 10 May 2017, vol.1, no.1, pp.3632-3642

VI. **Modelling of Suspended Sediment Loads with Artificial Bee Colony Algorithm**
YILMAZ B., ARAS E., BAKİ O. T.
2nd International Conference on Civil and Environmental Engineering (ICOCEE), Nevşehir, Turkey, 8 - 10 May 2017, pp.2440-2450

VII. **AKARSULARDA SEDİMENT TAŞINIMI TAHMİNİNİN TAŞKIN KONTROLÜNDEKİ ROLÜ**
YILMAZ B., ARAS E.
4.ULUSAL TAŞKIN SEMPOZYUMU, Rize, Turkey, 23 - 25 November 2016, pp.771-782

VIII. **EVALUATION OF LAND LOSS FOR ENVIROMENTAL FACTS:THE ATASU DAM EXAMPLE**
BAKİ O. T., ARAS E., YILMAZ B.
INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES (IBCESS), Giresun, Turkey, 31 August - 03 September 2016, vol.1, pp.31-42

IX. **ESTIMATION OF DAILY SUSPENDED SEDIMENT LOAD WITH AN ARTIFICIAL NEURAL NETWORK**
YILMAZ B., ARAS E., NACAR S.

1st International Black Sea Congress on Environmental Sciences (IBCESS), Giresun, Turkey, 31 August - 03 September 2016

X. **2000-2013 Yılları Arasında Doğu Karadeniz Havzasında Oluşan Taşkınların Kentsel Altyapıya Etkileri**
YILMAZ B., ARAS E.

7. Kentsel Altyapı Sempozyumu, Trabzon, Turkey, 13 - 14 November 2015, pp.687-695

Metrics

Publication: 18
Citation (WoS): 76
Citation (Scopus): 74
H-Index (WoS): 3
H-Index (Scopus): 3

Non Academic Experience

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