

## Res. Asst. SİNAN NACAR

### Personal Information

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### International Researcher IDs

Publons / Web Of Science ResearcherID: A-7588-2018

### Education Information

Doctorate, Karadeniz Technical University, Fbe, İnşaat Mühendisliği, Turkey 2015 - Continues

Postgraduate, Aksaray University, Fbe, İnşaat Mühendisliği, Turkey 2012 - 2014

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2007 - 2011

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Security, C SINIFI İŞ GÜVENLİĞİ UZMANLIĞI, TRABZON İSG, 2013

### Dissertations

Doctorate, İKLİM DEĞİŞİKLİĞİNİN DOĞU KARADENİZ HAVZASI YAĞIŞ VE SICAKLIK PARAMETRELERİ ÜZERİNDEKİ ETKİLERİNİN BELİRLENMESİ, Karadeniz Technical University, Fbe, İnşaat Mühendisliği, 2019

Postgraduate, FARKLI YAPAY ZEKA YÖNTEMLERİYLE GÜNLÜK AKARSU AKIM DEĞERLERİNİN TAHMİNİ-HALDİZEN DERESİ ÖRNEĞİ, Aksaray University, Mühendislik Fakültesi, Hidrolik, 2014

### Research Areas

Atmospheric Sciences and Meteorological Engineering, Climate, Climate Change and Climate Modeling, Civil Engineering, Hydraulic, Surface Water Engineering, Hydrology, Infrastructure Systems, Coastal Engineering, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Fbe, İnşaat Mühendisliği, 2013 - Continues

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Estimation of daily dissolved oxygen concentration for river water quality using conventional regression analysis, multivariate adaptive regression splines, and TreeNet techniques**  
Nacar S., Mete B., Bayram A.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.12, 2020 (SCI-Expanded)
- II. **Spatial Forecasting of Dissolved Oxygen Concentration in the Eastern Black Sea Basin, Turkey**  
Nacar S., Bayram A., Baki O. T., Kankal M., Aras E.  
WATER, vol.12, no.4, 2020 (SCI-Expanded)
- III. **Prediction of Parameters which Affect Beach Nourishment Performance Using MARS, TLBO, and Conventional Regression Techniques**  
Karasu S., Kankal M., NACAR S., UZLU E., YÜKSEK Ö.  
THALASSAS, vol.36, no.1, pp.245-260, 2020 (SCI-Expanded)
- IV. **Prediction of maximum annual flood discharges using artificial neural network approaches**  
ANILAN T., NACAR S., Kankal M., YÜKSEK Ö.  
Gradjevinar, vol.72, no.3, pp.215-224, 2020 (SCI-Expanded)
- V. **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)
- VI. **Performance evaluation of multiple adaptive regression splines, teaching-learning based optimization and conventional regression techniques in predicting mechanical properties of impregnated wood**  
TİRYAKI S., TAN H., Bardak S., Kankal M., NACAR S., Peker H.  
EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS, vol.77, no.4, pp.645-659, 2019 (SCI-Expanded)
- VII. **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)
- VIII. **Forecasting Daily Streamflow Discharges Using Various Neural Network Models and Training Algorithms**  
NACAR S., HINIS M. A., Kankal M.  
KSCE JOURNAL OF CIVIL ENGINEERING, vol.22, no.9, pp.3676-3685, 2018 (SCI-Expanded)
- IX. **Predicting temporal rate coefficient of bar volume using hybrid artificial intelligence approaches**  
KANKAL M., UZLU E., NACAR S., YÜKSEK Ö.  
JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, vol.23, no.3, pp.596-604, 2018 (SCI-Expanded)
- X. **Importance of hydropower for sustainable energy development in Turkey: Case of Coruh River**  
Kankal M., NACAR S., UZLU E.  
ENERGY & ENVIRONMENT, vol.27, no.8, pp.905-918, 2016 (SSCI)
- XI. **Status of hydropower and water resources in the Southeastern Anatolia Project (GAP) of Turkey**  
Kankal M., NACAR S., UZLU E.  
ENERGY REPORTS, vol.2, pp.123-128, 2016 (SCI-Expanded)
- XII. **Estimates of hydroelectric generation using neural networks with the artificial bee colony algorithm for Turkey**  
UZLU E., Akpınar A., ÖZTÜRK H. T., NACAR S., Kankal M.  
ENERGY, vol.69, pp.638-647, 2014 (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 BİLİMLERİ DERGİSİ, vol.38, no.2, pp.703-714, 2020 (ESCI)

- II. **Çok Değişkenli Uyarlanabilir Regresyon Eğrileri (ÇDURE) ile Günlük Akarsu Akımlarının Tahmini-Haldizen Deresi Örneği**  
NACAR S., KANKAL M., HINIS M. A.  
GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, no.8, pp.38-47, 2018 (Peer-Reviewed Journal)
- III. **Çok Değişkenli Uyarlanabilir Regresyon Eğrileri (ÇDURE) ile Günlük Akarsu Akımlarının Tahmini-Haldizen Deresi Örneği**  
NACAR S., KANKAL M., HINIS M. A.  
GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, no.8, pp.38-47, 2018 (Peer-Reviewed Journal)
- IV. **Temporal Variation of Organic and Inorganic Carbon Transport from the Southeastern Black Sea (Trabzon Province) Rivers**  
NACAR S., Satılmış U.  
European Journal of Engineering and Natural Sciences, vol.2, no.1, pp.149-153, 2017 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Statistical Downscaling of Monthly Mean Air Temperature Using NCEP/NCAR Re-analysis Data: A Case Study for the Eastern Black Sea Basin**  
NACAR S., KANKAL M., OKKAN U.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, vol.1, no.1, pp.725-733
- II. **Investigation of Annual Maximum Flow Trend using Innovative Trend Analysis with Change Boxes in the Eastern Black Sea Basin, Turkey**  
ŞAN M., KANKAL M., BAYRAM A., NACAR S.  
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, vol.1, no.1, pp.843-849
- III. **İstatistiksel Ölçek İndirgeme Yöntemi ile NCEP/NCAR Re-analiz Verilerinin Doğu Karadeniz Havzası Aylık Yağış ve Sıcaklık Değerlerine İndirgenmesi**  
NACAR S., Kankal M., Okkan U., DEDE T.  
International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Hatay, Turkey, 13 - 15 June 2019, pp.470-483
- IV. **[https://www.researchgate.net/profile/Sinan\\_Nacar](https://www.researchgate.net/profile/Sinan_Nacar)**  
ŞAN M., KANKAL M., BAYRAM A., NACAR S.  
International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Hatay, Turkey, 13 - 15 June 2019, vol.1, no.1, pp.670-681
- V. **İstatistiksel Ölçek İndirgeme Yöntemi ile NCEP/NCAR re-analiz Verilerinin Doğu Karadeniz Havzası Aylık Yağış ve Sıcaklık Değerlerine İndirgenmesi**  
NACAR S., KANKAL M., OKKAN U., DEDE T.  
International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Hatay, Turkey, 13 - 15 June 2019, vol.1, no.1, pp.470-483
- VI. **Estimation of Daily Dissolved Oxygen Concentration in the Clackamas River, Oregon Using the Multivariate Adaptive Regression Splines**  
NACAR S., METE B., BAYRAM A.  
International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Hatay, Turkey, 13 - 15 June 2019, pp.517-526
- VII. **ESTIMATION OF DAILY DISSOLVED OXYGEN CONCENTRATION IN THE BROAD RIVER, SOUTH CAROLINA**  
NACAR S., METE B., BAYRAM A.

International Civil Engineering and Architecture Conference 2019, Trabzon, Turkey, 17 - 20 April 2019, pp.879-885

- VIII. **PREDICTION OF LOAD-DISPLACEMENT ENVELOPE CURVE OF TAPERED SHAPED STEEL ROD WITH THE CIRCULAR CROSS-SECTION BY USING ARTIFICIAL NEURAL NETWORK**  
COŞĞUN S. İ., NACAR S., HÜSEM M.  
International Civil Engineering and Architecture Conference 2019, Trabzon, Turkey, 17 - 20 April 2019, vol.1, no.1
- IX. **Prediction of Total Suspended Solids from Turbidity Measurements in the Lower Çoruh River Basin Using Various Artificial Neural Networks Training Algorithms**  
BAYRAM A., KENANOĞLU M., NACAR S., KANKAL M.  
International Symposium on Urban Water and Wastewater Management, Denizli, Turkey, 25 - 27 October 2018, vol.1, pp.1069-1076
- X. **Estimation of Dissolved Oxygen for Urban Streams in the Eastern Black Sea Basin**  
NACAR S., BAYRAM A., SATILMIŞ U., KANKAL M.  
International Symposium on Urban Water and Wastewater Management, Denizli, Turkey, 25 - 27 October 2018, vol.1, pp.1077-1084
- XI. **Estimation of Manganese(II) Ion Concentration from Stream Turbidity Measurements: A Case Study from the Harşit Stream Watershed, Northeastern Turkey**  
BAYRAM A., NACAR S., KANKAL M., ONSOY H.  
International Symposium on Urban Water and Wastewater Management, Denizli, Turkey, 25 - 27 October 2018, vol.1, pp.208-215
- XII. **Yapay Kıyı Beslemesini Etkileyen Parametrelerin Regresyon Analizi ile Tahmini**  
Karasu S., Kankal M., Nacar S., Uzlu E., Yüksek Ö.  
9. Kıyı Mühendisliği Sempozyumu, Adana, Turkey, 1 - 03 November 2018, vol.1, no.1, pp.172-181
- XIII. **Estimation of Manganese(II) Ion Concentration from Stream Turbidity Measurements: A Case Study from the Harşit Stream Watershed, Northeastern Turkey**  
BAYRAM A., NACAR S., KANKAL M., ÖNSOY H.  
International Symposium on Urban Water and Wastewater Management (UKSAY)-2018, Denizli, Turkey, 25 - 27 October 2018, pp.1
- XIV. **Prediction of Total Suspended Solids from Turbidity Measurements in the Lower Çoruh River Basin Using Various Artificial Neural Networks Training Algorithms**  
BAYRAM A., KENANOĞLU M., NACAR S., KANKAL M.  
International Symposium on Urban Water and Wastewater Management (UKSAY)-2018, Denizli, Turkey, 25 - 27 October 2018, pp.2
- XV. **Estimation of Dissolved Oxygen for Urban Streams in the Eastern Black Sea Basin**  
NACAR S., BAYRAM A., SATILMIŞ U., KANKAL M.  
International Symposium on Urban Water and Wastewater Management (UKSAY)-2018, Denizli, Turkey, 25 - 27 October 2018, pp.3
- XVI. **Estimation of Biochemical Oxygen Demand with Multivariable Adaptive Regression Splines (MARS)**  
BAKİ O. T., ARAS E., NACAR S.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İzmir, Turkey, 12 - 14 September 2018, pp.1-6
- XVII. **Günlük Akarsu Akımlarının Regresyon ve Yapay Sinir Ağları Yöntemleri ile Tahmini**  
NACAR S., KANKAL M., HINIS M. A.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1-2
- XVIII. **Bayburt İlinin Farklı Derinliklerdeki Toprak Sıcaklıklarının Öğrenme Öğretme Tabanlı Optimizasyon Algoritması Kullanılarak Modellenmesi**  
TOKLU O., NACAR S., KANKAL M.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1-2
- XIX. **Türkiye’de Bulunan Çoklu Baraj Sistemlerinin Hidroelektrik Enerjiye Katkısı**  
KANKAL M., NACAR S., UZLU E.  
Uluslararası Kentsel Su ve Atıksu Yönetimi (UKSAY) Sempozyumu, Malatya, Turkey, 26 - 28 October 2016, pp.1018-

- XX. **Akım Değerlerinin Çeşitli YSA Yöntemleriyle Tahmin Edilmesi: Haldizen Deresi Örneği**  
NACAR S., HINIS M. A., KANKAL M.  
ULUSLARARASI KENTSEL SU VE ATIK SU YÖNETİMİ SEMPOZYUMU, Malatya, Turkey, 26 - 28 October 2016, pp.882-889
- XXI. **The Surface Water Quality Monitoring and Assessment of the Eastern Black Sea Basin Trabzon Province Streams Turkey**  
NACAR S., BAYRAM A., SATILMIŞ U., BAKİ O. T.  
12th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2016, pp.111
- XXII. **The Surface Water Quality Monitoring and Assessment of the Eastern Black Sea Basin (Trabzon Province) Streams, Turkey**  
NACAR S., BAYRAM A., SATILMIŞ U., BAKİ O. T.  
12th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2016, pp.111
- XXIII. **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
- XXIV. **Temporal Variation of Organic and Inorganic Carbon Transport rom the Southeastern Black Sea (Trabzon Province) Rivers**  
NACAR S., BAYRAM A., SATILMIŞ U.  
International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.1843-1847
- XXV. **Dissolved Oxygen and Chlorophyll a Levels in an Urban Stream Değirmendere Northeast Turkey**  
SATILMIŞ U., BAYRAM A., NACAR S.  
International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.530-536
- XXVI. **Temporal Variation of Organic and Inorganic Carbon Transport from the Southeastern Black Sea Trabzon Provinces Rivers**  
NACAR S., BAYRAM A., SATILMIŞ U.  
International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.1843-1847
- XXVII. **Temporal Variation of Organic and Inorganic Carbon Transport from the Southeastern Black Sea (Trabzon Province) Rivers**  
NACAR S., BAYRAM A., SATILMIŞ U.  
International Conference on Engineering and Natural Science (ICENS 2016), Sarajova, Bosnia And Herzegovina, 24 - 28 May 2016, vol.1, no.1, pp.1
- XXVIII. **Dissolved Oxygen and Chlorophyll a Levels in an Urban Stream, Değirmendere, Northeast Turkey**  
SATILMIŞ U., BAYRAM A., NACAR S.  
International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.530-536

## Expert Reports

- I. **24 AĞUSTOS 2015 TARİHİNDE ARHAVİ, HOPA VE BORÇKA'DA MEYDANA GELEN TAŞKIN VE HEYELAN İLE İLGİLİ TEKNİK İNCELEME RAPORU**  
YÜKSEK Ö., HÜSEM M., ŞADOĞLU E., ANGIN Z., İKİZLER S. B., ADANUR S., Karasu S., ANILAN T., NACAR S., Tiryaki M., et al.  
İnşaat Mühendisleri Odası Trabzon Şubesi, pp.12, Trabzon, 2015

## **Metrics**

Publication: 45

Citation (WoS): 204

Citation (Scopus): 216

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H-Index (Scopus): 7