

# Prof.Dr. ŞÜKRÜ ÖZŞAHİN

## Kişisel Bilgiler

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## Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 39855

## Eğitim Bilgileri

Doktora, Bülent Ecevit Üniversitesi, Fen Bilimleri Enstitüsü, Orman Endüstri Mühendisliği, Türkiye 1998 - 2004

Yüksek Lisans, Karadeniz Teknik Üniversitesi, -, Orman Endüstri Mühendisliği, Türkiye 1994 - 1997

Lisans, Karadeniz Teknik Üniversitesi, Orman Fakültesi, Orman Endüstri Mühendisliği, Türkiye 1990 - 1994

## Yabancı Diller

İngilizce, B2 Orta Üstü

## Yaptığı Tezler

Doktora, İşletmelerde Performans Ölçüm ve Denetimi için Bilgisayar Programı Hazırlanması ve Bir Orman Endüstri İşletmesi Uygulaması, Bülent Ecevit Üniversitesi, Orman Endüstri Mühendisliği, 2004

Yüksek Lisans, Okaliptüs (*Eucalyptus camaldulensis*) Odunundan Kereste Üretimi ve Bilgisayar Programı Yardımıyla Randıman Hesaplamaları, Karadeniz Teknik Üniversitesi, Orman Endüstri Mühendisliği, 1997

## Araştırma Alanları

Endüstri Mühendisliği, Enyileme Kuramı ve Yöntemleri, Sezgisel Yöntemler, Mühendislik ve Teknoloji

## Akademik Unvanlar / Görevler

Doç.Dr., Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği, 2015 - Devam Ediyor

Yrd.Doç.Dr., Karadeniz Teknik Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği, 2013 - 2015

Yrd.Doç.Dr., Karadeniz Teknik Üniversitesi, Enerji Sistemleri Mühendisliği, Enerji Sistemleri Mühendisliği, 2012 - 2013

Yrd.Doç.Dr., Karadeniz Teknik Üniversitesi, Of Teknik Eğitim Fakültesi, , 2008 - 2012

Öğretim Görevlisi Dr., Karadeniz Teknik Üniversitesi, Hopa Myo, , 2004 - 2008

Öğretim Görevlisi, Karadeniz Teknik Üniversitesi, Hopa Myo, , 2000 - 2004

## Akademik İdari Deneyim

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. An interval-valued intuitionistic fuzzy analytic hierarchy process model for understanding consumer decision-making in non-wood forest product purchases  
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- II. Optimization of wood machining parameters using artificial neural network in CNC router  
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- III. Analysis of Key Attributes of Wooden Toys via an Interval-Valued Spherical Fuzzy Analytic Hierarchy Process  
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- IV. Artificial neural-network optimisation of nail size and spacings of plywood shear wall  
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- V. Applying an interval-valued Pythagorean fuzzy analytic hierarchy process to rank factors influencing wooden outdoor furniture selection  
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WOOD MATERIAL SCIENCE & ENGINEERING, cilt.18, sa.1, ss.322-333, 2023 (SCI-Expanded)
- VI. Prioritization of laminate flooring selection criteria from experts' perspectives: a spherical fuzzy AHP-based model  
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- VII. Prediction of noise emission in the machining of wood materials by means of an artificial neural network  
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- VIII. Prioritization of factors affecting surface roughness of wood and wood-based materials in CNC machining: a fuzzy analytic hierarchy process model  
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- IX. A MULTIPLE CRITERIA ANALYSIS OF FACTORS INFLUENCING SURFACE ROUGHNESS OF WOOD AND WOOD-BASED MATERIALS IN THE PLANING PROCESS  
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CERNE, cilt.26, sa.1, ss.58-65, 2020 (SCI-Expanded)
- X. Artificial neural network analysis of the effect of matrix size and milling time on the properties of flake Al-Cu-Mg alloy particles synthesized by ball milling  
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- XI. Selection of Softwood Species for Structural and Non-Structural Timber Construction by Using the Analytic Hierarchy Process (AHP) and the Multi-Objective Optimization on the Basis of Ratio Analysis (MOORA)  
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- XII. Prediction of effect of reinforcement content, flake size and flake time on the density and hardness of flake AA2024-SiC nanocomposites using neural networks

- VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.  
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.739, ss.1005-1014, 2018 (SCI-Expanded)
- XIII. **Prediction of equilibrium moisture content and specific gravity of heat treated wood by artificial neural networks**  
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- XIV. **Artificial neural network-based prediction technique for coating thickness in Fe-Al coatings fabricated by mechanical milling**  
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş., ERDEMİR F., ÖZKAYA S.  
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- XV. **Employing an analytic hierarchy process to prioritize factors influencing surface roughness of wood and wood-based materials in the sawing process**  
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- XVI. **AN APPLICATION OF ARTIFICIAL NEURAL NETWORKS FOR MODELING FORMALDEHYDE EMISSION BASED ON PROCESS PARAMETERS IN PARTICLEBOARD MANUFACTURING PROCESS**  
AKYÜZ İ., ÖZŞAHİN Ş., TİRYAKİ S., Aydin A.  
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- XVII. **Employing artificial neural networks for minimizing surface roughness and power consumption in abrasive machining of wood**  
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EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS, cilt.75, sa.3, ss.347-358, 2017 (SCI-Expanded)
- XVIII. **ARTIFICIAL NEURAL NETWORK MODELING TO PREDICT OPTIMUM POWER CONSUMPTION IN WOOD MACHINING**  
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- XIX. **Artificial neural network to predict the effect of heat treatment, reinforcement size, and volume fraction on AlCuMg alloy matrix composite properties fabricated by stir casting method**  
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- XX. **Modeling of the Prediction of Densification Behavior of Powder Metallurgy Al-Cu-Mg/B4C Composites Using Artificial Neural Networks**  
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- XXI. **Comparison of artificial neural network and multiple linear regression models to predict optimum bonding strength of heat treated woods**  
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- XXII. **Prediction of Non-Wood Forest Products Trade Using Artificial Neural Networks**  
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- XXIII. **Prediction of Effect of Reinforcement Size and Volume Fraction on the Abrasive Wear Behavior of AA2014/B4C MMCs Using Artificial Neural Network**  
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- XXIV. **Prediction of the influence of processing parameters on synthesis of Al2024-B4C composite powders in a planetary mill using an artificial neural network**  
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- XXV. **Prediction of the optimum veneer drying temperature for good bonding in plywood manufacturing**

- by means of artificial neural network**  
 ÖZSAHİN Ş., AYDIN İ.  
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- XXVI. EVALUALUATION AND OPTIMIZATION OF BENDING MOMENT CAPACITY OF CORNER JOINTS WITH DIFFERENT BORING PLANS IN CABINET CONSTRUCTION**  
 Malkocoglu A., Yerlikaya N. C., ÖZSAHİN Ş.  
 WOOD RESEARCH, cilt.59, sa.1, ss.201-215, 2014 (SCI-Expanded)
- XXVII. Artificial neural network modeling to effect of reinforcement properties on the physical and mechanical properties of Al2024-B4C composites produced by powder metallurgy**  
 VAROL T., ÇANAKÇI A., ÖZSAHİN Ş.  
 COMPOSITES PART B-ENGINEERING, cilt.54, ss.224-233, 2013 (SCI-Expanded)
- XXVIII. Optimization of process parameters in oriented strand board manufacturing with artificial neural network analysis**  
 Ozsahin S.  
 EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS, cilt.71, sa.6, ss.769-777, 2013 (SCI-Expanded)
- XXIX. Optimization of some panel manufacturing parameters for the best bonding strength of plywood**  
 DEMİRKIR C., ÖZSAHİN Ş., AYDIN İ., ÇOLAKOĞLU G.  
 INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, cilt.46, ss.14-20, 2013 (SCI-Expanded)
- XXX. Analysis of the effect of a new process control agent technique on the mechanical milling process using a neural network model: Measurement and modeling**  
 ÇANAKÇI A., VAROL T., ÖZSAHİN Ş.  
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- XXXI. Prediction of effect of volume fraction, compact pressure and milling time on properties of Al-Al203 MMCs using neural networks**  
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- XXXII. Modeling the influence of a process control agent on the properties of metal matrix composite powders using artificial neural networks**  
 ÇANAKÇI A., ÖZSAHİN Ş., VAROL T.  
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- XXXIII. THE USE OF AN ARTIFICIAL NEURAL NETWORK FOR MODELING THE MOISTURE ABSORPTION AND THICKNESS SWELLING OF ORIENTED STRAND BOARD**  
 Ozsahin S.  
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- XXXIV. PREDICTION OF THE FINANCIAL RETURN OF THE PAPER SECTOR WITH ARTIFICIAL NEURAL NETWORKS**  
 YILDIRIM İ., ÖZSAHİN Ş., AKYÜZ K. C.  
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## Düger Dergilerde Yayınlanan Makaleler

- I. **Prediction of Surface Roughness and Adhesion Strength of Wood by Artificial Neural Networks**  
 ÖZSAHİN Ş., Singer H.  
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- II. **Odun Yüzey Pürüzlülüğü Tahmininde Bir Yapay Sinir Ağ Modelinin Kullanılması**  
 ÖZSAHİN Ş., SINGER H.  
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- III. **Development of an Artificial Neural Network Model to Minimize Power Consumption in the Milling of Heat-Treated and Untreated Wood**  
 ÖZSAHİN Ş., Singer H.

- KASTAMONU UNIVERSITY JOURNAL OF FORESTRY FACULTY, cilt.19, sa.3, ss.317-328, 2019 (ESCI)
- IV. Artificial Neural Network-Based New Methodology for Modeling of Asphalt Mixtures and Comparison with IKE Method**  
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- V. Artificial Neural Network Approach to Predict the Abrasive Wear of AA2024-B4C Composites**  
 ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş., ÖZKAYA S.  
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- VI. Okalıptüs Tomruklarından Kereste Biçme Teknikleri**  
 ÇOLAKOĞLU G., ÖZŞAHİN Ş., AYDIN İ.  
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- VII. Fayda-Değer Analizi Bilgisayar Programı ve Bartın-İnkumu Tatil Beldesinde Uygulanışı**  
 AYTEKİN A., SARAÇOĞLU N., KARAYILMAZLAR S., ÖZŞAHİN Ş.  
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- VIII. Quick Basic Programlama Diliyle İşletmelerde Bireysel Performans Değerlemeye Yönelik Bir Paket Programın Geliştirilmesi**  
 BARLI Ö., ÖZŞAHİN Ş.  
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### Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. Using the Anfis Approach to Predict the Noise Level in the Machining of Wood Materials**  
 SINGER H., ÖZŞAHİN Ş.  
 International Black Sea Coastline Countries Symposium-III, Zonguldak, Türkiye, 18 - 20 Ekim 2019, ss.27-36
- II. Evaluation of Some Natural Spring Waters in the Eastern Black Sea Region Based on Elements An Integrated Mcdm Approach**  
 SINGER H., ÖZŞAHİN Ş.  
 International Black Sea Coastline Countries Symposium-III, Zonguldak, Türkiye, 18 - 20 Ekim 2019, ss.15-26
- III. A Prioritization Study with the Fuzzy Analytic Hierarchy Process Method: Analyzing Wood Surface Roughness Factors**  
 ÖZŞAHİN Ş., SINGER H.  
 International Congress of Academic Research, Bolu, Türkiye, 16 - 18 Eylül 2019, ss.25-35
- IV. Multi-criteria Evaluation of Heavy Metal Pollution of Coruh River Basin**  
 ÖZŞAHİN Ş., SINGER H.  
 International Congress of Academic Research, Bolu, Türkiye, 16 - 18 Eylül 2019, ss.36-44
- V. Comparison of Artificial Neural Network and Multiple Linear Regression Models in Predicting the Surface Roughness of Wood**  
 SINGER H., ÖZŞAHİN Ş.  
 3rd International Engineering Research Symposium INERS'19, Düzce, Türkiye, 5 - 07 Eylül 2019, ss.266-274
- VI. Prioritization of Factors Influencing Surface Roughness: An Application for the Forest Industry**  
 SINGER H., ÖZŞAHİN Ş.  
 ", 3rd International Engineering Research Symposium INERS'19, Düzce, Türkiye, 5 - 07 Eylül 2019, ss.259-265
- VII. Estimation of The Effects of Veneer Drying Temperatures on Thermal Conductivity of Plywood with Artificial Neural Network Modelling**  
 ÖZŞAHİN Ş., AYDIN İ., DEMİR A.  
 Karadeniz 2. Uluslararası Uygulamalı Bilimler Kongresi, Rize, Türkiye, 23 - 25 Ağustos 2019, ss.240-250
- VIII. Optimization of Veneer Drying Temperature for the Best Mechanical Properties of Plywood via Artificial Neural Network**  
 ÖZŞAHİN Ş., DEMİR A., AYDIN İ.  
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- IX. Employing a Multi-Criteria Decision Making Method to Evaluate Engineered Wood Products and Timber**  
SINGER H., ÖZSAHİN \$.  
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- X. Modeling the Effects of Process Parameters on the Surface Roughness of Wood Using Artificial Neural Networks**  
ÖZSAHİN \$., SINGER H.  
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- XI. Orman Ürünleri Sanayinde Tedarik Zinciri Yönetiminin Benimsenmesi ve Müşteri İlişkileri**  
YILDIRIM İ., AKYÜZ K. C., AYDIN A., ÖZSAHİN \$., AKYÜZ İ.  
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- XII. Orman Ürünleri Sanayi Çalışanlarında Motivasyon ve İş Yaşam Kalitesinin Belirlenmesi**  
YILDIRIM İ., HAN M., AKYÜZ K. C., AYDIN A., ÖZSAHİN \$.  
International Symposium of Applied Business Management and Economics Researches ISABMER, Bayburt, Türkiye, 3 - 05 Mayıs 2018, ss.101-102
- XIII. Application of Artificial Neural Network for Prediction of Coating Thickness in Fe-Al Coatings**  
VAROL T., ÇANAKÇI A., ÖZSAHİN \$., ERDEMİR F., ÖZKAYA S.  
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- XIV. Prediction of the Effect of Matrix Size and Milling Time on the Particle Size of Flake Al-Cu-Mg Alloy Particles Using Neural Networks**  
VAROL T., ÖZSAHİN \$.  
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- XV. Data Envelopment Analysis for Effectiveness of Health Care Systems of Provinces: A Case Study in Turkey**  
MURAT M., AYYILDIZ E., ÖZCELİK G., ÖZSAHİN \$.  
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- XVI. An Application on the Similarity of Turkey to the EU in terms of the Quality of Life Using Clustering Analysis**  
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- XVII. Forecasting the Amount of Sulfur Dioxide (SO<sub>2</sub>) and Particulate Matter (PM10) in the Air Using Grey Prediction and ARIMA Methods**  
ALÇI A., MURAT M., ÖZSAHİN \$.  
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- XVIII. Location Selection for Solar Energy Fields Using Multi Criteria Decision Making Methods: Case of Turkey**  
MERAL G., SEVİNDİ E., ÇAKIR H., KASTAN M., ALÇI A., ÖZSAHİN \$.  
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- XIX. Karar Verme Sürecinde Simülasyon Tekniğinin Kullanımı ve Özel Bir Çay İşleme Tesisinde Uygulama**  
KARADAĞ T., ÇAVDAR E., MEYDANKAŞ M., BAHADIR D. N., SANDIKÇI C., AKŞEHİR M. Y., DEMİRCİ E., ÖZSAHİN \$.,  
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- XX. Kuzeydoğu Anadolu Bölgesinde Kurulacak Hava Ayırıştırma Tesisi için AHP ve PROMETHEE Teknikleri ile Yer Seçimi**  
YILMAZ H., SAĞLAM C., SARIOĞLU A., ALÇI A., ÖZSAHİN \$.  
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- XXI. **Application of Back-Propagation Neural Network Technique to Prediction of the Abrasive Wear Behavior of Al2014/B4C Composite**  
ÇANAKÇI A., VAROL T., ÖZSAHİN Ş.  
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- XXII. **Prediction Model for Densification Behavior of Powder Metallurgy Al-Cu-Mg/B4C Composites**  
VAROL T., ÇANAKÇI A., ÖZSAHİN Ş., İPEK H.  
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- XXIII. **The Prediction of Properties of B4C Particle Reinforced Metal Matrix Composites Using Artificial Neural Networks**  
VAROL T., ÇANAKÇI A., ÖZSAHİN Ş.  
17th International Metallurgy and Materials Congress, İstanbul, Türkiye, 11 - 13 Eylül 2014, ss.451-458
- XXIV. **Artificial Neural Network Approach for the Prediction of Coating Thickness in Fe-Al Coatings Fabricated by Mechanical Milling**  
ÇANAKÇI A., ERDEMİR F., VAROL T., ÖZSAHİN Ş., ÖZKAYA S.  
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- XXV. **Analysis of the prediction of compressibility of powder metallurgy Al2024-B4C composites using artificial neural networks**  
VAROL T., ÇANAKÇI A., ÖZSAHİN Ş.  
7th International Powder Metallurgy Conference and Exhibition, Ankara, Türkiye, 24 - 28 Haziran 2014, ss.24-25
- XXVI. **Mekanik öğretme işlemi üzerine yeni bir işlem kontrol katkısı tekniği etkisinin bir yapay sinir ağının modeli kullanılarak analizi**  
ÇANAKÇI A., VAROL T., ÖZSAHİN Ş.  
II. Ulusal Ege Kompozit Malzemeler Sempozyumu, İzmir, Türkiye, 7 - 09 Kasım 2013, ss.221-228
- XXVII. **Artificial Neural Network Approach to Predict of Effect of Process Control Agent on the Microhardness of Al-Al2O3 Composite Powders Produced by Mechanical Alloying**  
ÇANAKÇI A., VAROL T., ÖZSAHİN Ş.  
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- XXVIII. **Artificial Neural Network Approach to Predict of Effect of Process Control Agent on Particle Size of Al-%10 Al2O3 Composite Powders Fabricated by Mechanical Alloying**  
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- XXIX. **Orman Ürünleri ve Kağıt Sanayi Sektörlerinin Türkiye Ekonomisindeki Yeri ve Önemi**  
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V. Ulusal Orman Fakülteleri Öğrenci Kongresi, Trabzon, Türkiye, 29 Nisan - 01 Mayıs 2004, cilt.2, ss.37-41
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