

Prof. MURAT TOLGA ÖZKAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: L-8804-2015

ScopusID: 57196778039

Yoksis Researcher ID: 46386

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Dr), Turkey 1996 - 2003

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (YI) (Tezli), Turkey 1995 - 1996

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, Turkey 1991 - 1994

Dissertations

Doctorate, Civatalı bağlantılarda birleştirilen elemanların direngenliğinin sonlu elemanlar yöntemi ve yapay sinir ağları sistemi ile belirlenmesi ve civata tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (Dr), 2003

Postgraduate, Makine elemanlarının bilgisayar destekli tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (YI) (Tezli), 1996

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks, Mechanical Engineering, Construction and Manufacturing, Machine Elements, Machine Design, Computer Aided Design and Manufacturing, Mechanisms, Modeling and Simulation of Dynamic Systems, Finite Element Methods, Modal Analysis, Simulation

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2021 - Continues

Associate Professor, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2016 - 2021

Assistant Professor, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2013 - 2016

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2009 - 2013

Lecturer, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2002 - 2009

Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 1995 - 2002

Academic and Administrative Experience

Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2024 - Continues
Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2024 - Continues
Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2024 - Continues
Member of the Senate, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2024 - Continues
Director of The Institution, Gazi University, Kazaları Araştırma Ve Önleme Enstitüsü, -, 2024 - Continues
Birim Kalite Komisyonu Başkanı, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2022 - Continues
Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2021 - Continues
Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2021 - Continues
Academic Performance D. Board Member, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2021 - Continues
Rectorate Commissioner, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2021 - Continues
Bölüm Stratejik Plan Komisyonu Üyesi, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2020 - Continues
Gazi University, Teknik Eğitim Fakültesi, 2016 - 2016
Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği Bölümü, 2013 - 2014

Courses

MAKİNA ELEMANLARI 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2016 - 2017
ENDÜSTRİYEL TASARIMDA YAPAY ZEKA VE UYGULAMALARI, Postgraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020
Makina Elemanları 2, Undergraduate, 2020 - 2021
DİNAMİK, Undergraduate, 2020 - 2021
MEZUNİYET PROJESİ, Undergraduate, 2020 - 2021
MAKİNA ELEMANLARI 2, Undergraduate, 2019 - 2020
MEKANİK SİSTEM TASARIMI SİMULASYON VE ANALİZ, Postgraduate, 2020 - 2021, 2016 - 2017
MEKANİZMALAR, Undergraduate, 2020 - 2021
MAKİNA ELEMANLARI I, Undergraduate, 2017 - 2018
MÜHENDİSLİK MEKANİĞİ 2, Undergraduate, 2016 - 2017
MÜHENDİSLİK MEKANİĞİ 1, Undergraduate, 2017 - 2018, 2016 - 2017

Advising Theses

Özkan M. T., AHŞAP PLASTİK KOMPOZİT MALZEMELER İÇİN YENİ AUXETİK YAPININ TASARIMI VE MEKANİK ÖZELLİKLERİNİN ARAŞTIRILMASI, Doctorate, F.ERDEMİR(Student), 2024
Özkan M. T., Parametric design of critical buckling loads of perforated layered composite plates with variable parameters using the finite element method and modelling with artificial neural networks, Postgraduate, A.ZOP(Student), 2023
Özkan M. T., Investigation of buckling behavior of layered composite cylindrical shells using different engineering methods, Postgraduate, F.Latif(Student), 2023
Özkan M. T., YAPRAK YAYLARIN SONLU ELEMANLAR YÖNTEMİ İLE TASARIMI VE YAPAY SİNİR AĞLARI İLE MODELLENMESİ, Postgraduate, S.YAVUZ(Student), 2022
ÖZKAN M. T., Design Of Vibration Isolator And Finite Element Analysis, Postgraduate, M.KURAN(Student), 2020
ÖZKAN M. T., Snap-Fits Design And Modeling With Artificial Neural Networks, Postgraduate, F.ERDEMİR(Student), 2019
ÖZKAN M. T., Definition of the stress analysis and notch effects in the angled drilled plates under different stresses, Postgraduate, M.KAYGISIZ(Student), 2017
ÖZKAN M. T., The education of web based interactive mechanisms, Postgraduate, F.CİHAN(Student), 2014
ÖZKAN M. T., Design, manufacturing of a valve characterization experimental setup with cartridge valves, Postgraduate, M.BURAK(Student), 2013

ÖZKAN M. T., Computer aided bearing calculation and analysis with finite element method, Postgraduate, F.MEHMET(Student), 2013
ÖZKAN M. T., EXPERIMENTAL OBSERVATION OF DIFFERENT WELDING PARAMETERS FRICTION STIR WELDING, Postgraduate, M.BOZU(Student), 2007
ÖZKAN M. T., Sürtünme karıştırma kaynağında farklı kaynak parametrelerinin deneysel olarak incelenmesi, Postgraduate, M.BOZU(Student), 2007

Jury Memberships

Committee Of Expert, Committee Of Expert, Gazi University, May, 2022
Associate Professor Exam, Associate Professor Exam, Gazi Üniversitesi, May, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, March, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, March, 2021
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2020
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2020
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, November, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara Yıldırım Beyazıt Üniversitesi, February, 2019
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, January, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Estimation of joint torques using an artificial neural network model based on kinematic and anthropometric data**
Serbest K., ÖZKAN M. T., Cilli M.
Neural Computing and Applications, vol.35, no.17, pp.12513-12529, 2023 (SCI-Expanded)
- II. **Prediction of Channel Utilization with Artificial Neural Networks Model in Mac Layer in Wireless Local Area Networks**
Karakurt H. B., KOÇAK C., ÖZKAN M. T.
WIRELESS PERSONAL COMMUNICATIONS, vol.126, no.4, pp.3389-3418, 2022 (SCI-Expanded)
- III. **Determination of theoretical stress concentration factor for circular/elliptical holes with reinforcement using analytical, finite element method and artificial neural network techniques**
Özkan M. T., Erdemir F.
NEURAL COMPUTING & APPLICATIONS, vol.33, no.19, pp.12641-12659, 2021 (SCI-Expanded)
- IV. **End effector position calculation with the ANN for tapping machine**
AKKAŞ G., KORKUT İ., ÖZKAN M. T.
JOURNAL OF ENGINEERING RESEARCH, vol.9, no.3, pp.235-247, 2021 (SCI-Expanded)
- V. **Determination of stress concentration factors for shafts under tension**
ÖZKAN M. T., Erdemir F.
MATERIALS TESTING, vol.62, no.4, pp.413-421, 2020 (SCI-Expanded)
- VI. **Vibration prediction in drilling processes with HSS and carbide drill bit by means of artificial neural networks**
ULAŞ H. B., ÖZKAN M. T., Malkoc Y.
NEURAL COMPUTING & APPLICATIONS, vol.31, no.9, pp.5547-5562, 2019 (SCI-Expanded)
- VII. **Turning processes investigation of materials austenitic, martensitic and duplex stainless steels and prediction of cutting forces using artificial neural network (ANN) techniques**

- ULAŞ H. B., ÖZKAN M. T.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.26, no.2, pp.93-104, 2019 (SCI-Expanded)
- VIII. **Experimental research and ANN modeling on the impact of the ball burnishing process on the mechanical properties of 5083 Al-Mg material**
Basak H., ÖZKAN M. T., Toktas I.
KOVOLVE MATERIALY-METALLIC MATERIALS, vol.57, no.1, pp.61-74, 2019 (SCI-Expanded)
- IX. **Performance of coated and uncoated carbide/cermet cutting tools during turning**
ULAŞ H. B., BİLGİN M., SEZER H. K., ÖZKAN M. T.
MATERIALS TESTING, vol.60, no.9, pp.893-901, 2018 (SCI-Expanded)
- X. **Determination of the stress concentration factor (K-t) in a rectangular plate with a hole under tensile stress using different methods**
ÖZKAN M. T., TOKTAŞ İ.
MATERIALS TESTING, vol.58, no.10, pp.839-847, 2016 (SCI-Expanded)
- XI. **Surface roughness during the turning process of a 50CrV4 (SAE 6150) steel and ANN based modeling**
ÖZKAN M. T.
MATERIALS TESTING, vol.57, no.10, pp.889-896, 2015 (SCI-Expanded)
- XII. **EXPERIMENTAL DESIGN AND ARTIFICIAL NEURAL NETWORK MODEL FOR TURNING THE 50CrV4 (SAE 6150) ALLOY USING COATED CARBIDE/CERMET CUTTING TOOLS**
ÖZKAN M. T., ULAŞ H. B., BİLGİN M.
MATERIALI IN TEHNOLOGIJE, vol.48, no.2, pp.227-236, 2014 (SCI-Expanded)
- XIII. **DETERMINATION OF THE NOTCH FACTOR FOR SHAFTS UNDER TORSIONAL STRESS WITH ARTIFICIAL NEURAL NETWORKS**
ÖZKAN M. T., ELDEM C., ŞAHİN İ.
MATERIALI IN TEHNOLOGIJE, vol.48, no.1, pp.81-90, 2014 (SCI-Expanded)
- XIV. **Experimental and artificial neural network study of heat formation values of drilling and boring operations on Al 7075 T6 workpiece**
ÖZKAN M. T.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.20, no.4, pp.259-268, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Simetrik V Şekilli Plakadaki Gerilme Yığılma Faktörünün Yapay Sinir Ağı ile Modellenmesi**
Eren M., TOKTAŞ İ., ÖZKAN M. T.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.26, no.3, pp.1199-1205, 2023 (ESCI)
- II. **Meyve Kabuğu tozları Takviyeli Ahşap Plastik Kompozit (APK) Malzemelerin Mekanik Özelliklerinin Belirlenmesi ve I-Tipi Snap-Fit Modeli için Örnek Çalışma**
Özkan M. T., Erdemir F.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.26, no.3, pp.1-15, 2023 (ESCI)
- III. **Application Of Taguchi Method For Optimization Of Design Parameters In Enhancement The Robust Of \u201c\u201d Type Snap-fits**
ERDEMİR F., ÖZKAN M. T.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.25, no.3, pp.1385-1395, 2022 (ESCI)
- IV. **Analyze of leaf springs with parametric finite element analysis and artificial neural network**
Yavuz S., ÖZKAN M. T.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.25, pp.827-842, 2022 (ESCI)
- V. **Estimations of Stress Concentration Factors (Cw/Kts) For Helical Circular/Square Cross Sectional Tension-Compression Springs And Artificial Neural Network Modelling**
ÖZKAN M. T., TOKTAŞ İ., Doganay S. K.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.3, pp.901-908, 2020 (ESCI)

- VI. **Determination of Stress Concentration Factor (Kt) for a Crankshaft under Bending Loading: An Artificial Neural Networks Approach**
Toktaş İ., Özkan M. T., Erdemir F., Yuksel N.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.23, no.3, pp.813-819, 2020 (ESCI)
- VII. **Stress Concentration Factor Kt Determination For A Crankshaft İn Bending Loading: An Artificial Neural Networks Approach**
TOKTAŞ İ., ÖZKAN M. T., ERDEMİR F., YUKSEL N.
Journal of Polytechnic, vol.23, no.3, pp.813-819, 2020 (ESCI)
- VIII. **Modal Analysis of a Snap-fits Joint Model for Plastic Parts**
Erdemir F., ÖZKAN M. T.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.22, no.4, pp.927-933, 2019 (ESCI)
- IX. **Esneyerek Kilitlenen Bağlantı Elemanlarında Tutma/Çözme Kuvvetinin Malzeme Cinsi ve Sürtünme Katsayısına Göre Yapay Sinir Ağları Metodu ile Modellenmesi**
ÖZKAN M. T., Erdemir F.
Gazi Mühendislik Bilimleri Dergisi, vol.4, no.3, pp.207-215, 2018 (Peer-Reviewed Journal)
- X. **ANN Modelling for The Buckling Analysis of Medical Titanium Alloys**
ÖZKAN M. T., TOKTAŞ İ., ÇETİNDAG H. A., KILIÇARSLAN A. E., ÜNVER H. N.
International Journal of Scientific Research in Information Systems and Engineering (IJSRISE), vol.4, no.1, pp.16-24, 2018 (Peer-Reviewed Journal)
- XI. **ANN ANALYSIS OF TITANIUM ALLOY BEAMS ACCORDING TO BENDING FOR MEDICAL APPLICATIONS**
ÇETİNDAG H. A., TOKTAŞ İ., ÖZKAN M. T., KILIÇARSLAN A. E., ÜNVER H. N.
International journal of scientific research in information systems and engineering (IJSRISE), vol.4, no.1, pp.7-15, 2018 (Peer-Reviewed Journal)
- XII. **Eşit miktarda filament kullanımı ile 3 boyutlu baskısı yapılacak ankastre kirişlerin çekme/basma mukavemetine göre kesit geometrilerinin belirlenmesi (Determination of Cross Sectional Geometries of Beams According to Tension and Compression Strength Which are 3D Printed with the Same Amount of Filament)**
ÖZKAN M. T., ÇETİNDAG H. A., TOKTAŞ İ.
Politeknik Dergisi, vol.21, no.1, pp.213-219, 2018 (Peer-Reviewed Journal)
- XIII. **Determination of Stress Concentration Factor for an Infinite 3D Solid Plate With A Deep Hyperbolic Groove and ANN Application**
KAPLAN H., TOKTAŞ İ., ÖZKAN M. T.
International Journal of Scientific Research in Information Systems and Engineering (IJSRISE), vol.4, no.1, pp.60-67, 2018 (Peer-Reviewed Journal)
- XIV. **Determination of Cross Sectional Geometries of Beams According to Tension and Compression Strength Which are 3D Printed with the Same Amount of Filament**
ÖZKAN M. T., Cetindag H. A., Toktas I.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.21, no.1, pp.213-219, 2018 (ESCI)
- XV. **MATHEMATICAL MODELLING AND ANALYSIS OF CARTRIDGE PROPORTIONAL VALVE**
GÜNAY M. B., ÖZKAN M. T.
GLOBAL JOURNAL OF ENGINEERING SCIENCE AND RESEARCHES, vol.4, no.11, pp.38-47, 2017 (Peer-Reviewed Journal)
- XVI. **3 Boyutlu Baskısı Yapılacak Ankastre Kirişlerin Eşit Miktarda Filament Kullanımı İle Eğilme Mukavemetine Göre Kesit Geometrisi Optimizasyonu**
ÇETİNDAG H. A., TOKTAŞ İ., ÖZKAN M. T.
Duzce University Journal of Science Technolog, vol.5, no.2, pp.466-477, 2017 (Peer-Reviewed Journal)
- XVII. **Burkulma Mukavemetine Göre Eşit Miktarda Filament Kullanımı İle 3 Boyutlu Baskısı Yapılacak Ankastre Kirişlerin Kesit Geometri Biçimlerinin Performansı**
TOKTAŞ İ., ÖZKAN M. T., Çetindağ H. A.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.5, no.4, pp.169-177, 2017 (Peer-Reviewed Journal)

- XVIII. **Park-Bahçe Aydınlatma Armatürleri için Yeni Bir Soğutucu GövdeTasarımı ve Analizi**
ÖZKAN M. T., emre y., mehmet k.
Gazi Mühendislik Bilimleri Dergisi, vol.3, no.1, pp.1-10, 2017 (Peer-Reviewed Journal)
- XIX. **Elipsel Delikli Plakalarda Oluşan Gerilmelerin Tanımlanması ve Yapay Sinir Ağları ile Tahmini**
ÖZKAN M. T., KAYGISIZ M.
Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, vol.4, no.3, pp.135-145, 2016 (Peer-Reviewed Journal)
- XX. **Comparison with different models of bending stress analysis of the cantilever beams under different profile section materials and loads**
ÖZKAN M. T.
Social GAU Journal Applied Sciences, vol.7, no.11, pp.173-182, 2015 (Peer-Reviewed Journal)
- XXI. **Comparison with different models of tensile and compressive stress analysis on a cantilever beam model**
ÖZKAN M. T.
Social GAU Journal Applied Sciences, vol.7, no.11, pp.183-194, 2015 (Peer-Reviewed Journal)
- XXII. **Eğilme Gerilmesi Etkisindeki Millerin Çentik Faktörünün Yapay Sinir Ağları İle Belirlenmesi**
ÖZKAN M. T., ELDEM C., KÖKSAL E.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.19, no.1, pp.24-32, 2013 (Peer-Reviewed Journal)
- XXIII. **Çekme Gerilmesi Etkisindeki Millerin Çentik Faktörünün Yapay Sinir Ağları İle Belirlenmesi**
KÖKSAL E., ÖZKAN M. T., ELDEM C.
Erciyes Üniversitesi Mühendislik Fakültesi Dergisi, vol.29, no.1, pp.81-89, 2013 (Peer-Reviewed Journal)
- XXIV. **Mekanizma Tekniği Dersi İçin Uzaktan Eğitim Modülünün Hazırlanması ve Uygulanması**
ÖZKAN M. T.
NEWWSA, vol.7, no.2, pp.1-16, 2013 (Peer-Reviewed Journal)
- XXV. **Notch sensitivity factor calculationin the design of shafts using artificial neural network system**
ÖZKAN M. T.
Education Science and Technology Part A: Energy Science and Research, vol.30, no.1, pp.621-630, 2012 (Peer-Reviewed Journal)
- XXVI. **Bilgisayar Destekli Helisel Yay Tasarımı ve Sonlu Elemanlar Analizi**
ÖZKAN M. T., DÜNDAR K., GÜMÜŞ F.
TUBAV Bilim Dergisi, vol.2, no.2, pp.199-210, 2009 (Peer-Reviewed Journal)
- XXVII. **Civatalı Bağlantıların Eleman Direngenliğinin Sonlu Elemanlar Yöntemi ve Yapay Sinir Ağları Sistemi ile Belirlenmesi**
ÖZKAN M. T., DÜNDAR K.
TEKNOLOJİ Z.K.Ü. Teknik Eğitim Fakültesi Dergisi, vol.1, no.8, pp.33-41, 2005 (Peer-Reviewed Journal)
- XXVIII. **M tolga Özkan 1999 Bilgisayar Yardımı ile Konik Dişli Çark Tasarımı Güvenirlik Analizi ve Optimizasyonu Teknoloji Z K Ü Karabük Teknik Eğitim Dergisi 12 105113**
ÖZKAN M. T., ELDEM C.
Teknoloji Z.K.Ü. Karabük Teknik Eğitim Dergisi, no.12, pp.105-113, 2004 (Peer-Reviewed Journal)
- XXIX. **Uzman Sistem Yaklaşımı ile Civata ve Disli Çark Seçimi**
ÖZKAN M. T., GÜLESİN M.
Turkish Journal of Engineering and Environmental Sciences, vol.25, no.3, pp.169-177, 2001 (Peer-Reviewed Journal)
- XXX. **The selection of bolts and gears through expert system approach Uzman sistem yaklaşımı ile civata ve dişli çark seçimi**
ÖZKAN M. T., Gülesin M.
Turkish Journal of Engineering and Environmental Sciences, vol.25, no.3, pp.169-177, 2001 (Scopus)
- XXXI. **Bilgisayar Yardımı ile Konik Dişli Çark Tasarımı Güvenirlik Analizi ve Optimizasyonu**
ÖZKAN M. T., ELDEM C.
TEKNOLOJİ Z.K.Ü. Teknik Eğitim Fakültesi Dergisi, vol.2, no.12, pp.105-113, 1999 (Peer-Reviewed Journal)
- XXXII. **Perçinlerin Mukavemet Analizi ve Optimizasyonu**

Refereed Congress / Symposium Publications in Proceedings

- I. **Esneyerek Kilitlenen Bağlantı Tasarımında Modal Analiz**
ÖZKAN M. T., Erdemir F.
ISIDE 2018, Antalya, Turkey, 22 - 24 November 2018, pp.580-586
- II. **Belleville Tipi Yayların Kuvvet-Deplasman Özellik-lerinin Yay Boyutlarına Göre Yapay Sinir Ağları (YSA) ile Modellenmesi**
ÖZKAN M. T., Kuran M.
ISIDE 2018, Antalya, Turkey, 22 - 24 November 2018, pp.573-579
- III. **Tırnaklı Birleştirmelerde Sıkma/Çözme Kuvvetinin Malzeme Türü ve Sürtünme Katsayısına Göre Yapay Sinir Ağları Metodu ile Modellenmesi**
ÖZKAN M. T., Erdemir F.
ISIDE 2018, Antalya, Turkey, 22 - 24 November 2018, pp.595-603
- IV. **Farklı Malzemelerden Üretilmiş I- Tipi Tırnak Bağlantılarında Oluşan Gerilmelerin Taguchi Metodu ile Optimizasyonu ve Sonlu Elemanlar Yöntemiyle Modellenmesi**
ÖZKAN M. T., Erdemir F.
ISIDE 2018, Antalya, Turkey, 22 - 24 November 2018, pp.587-594
- V. **Determination of Stress concentration factor for an infinite 3D solid plate with a deep hyperbolic groove and ANN application**
KAPLAN H., TOKTAŞ İ., ÖZKAN M. T.
ISEAIA 2017 5ND International Symposium on Engineering, Artificial Intelligence Applications (İkinci Uluslararası Mühendislik, Yapay Zekâ ve Uygulamaları Sempozyumu), Girne, Cyprus (Kkct), 1 - 03 November 2017, pp.83-92
- VI. **Artificial neural networks model for estimation of stress concentration for a flat tension bar with opposite V-shaped notches**
EREN M., ÖZKAN M. T., TOKTAŞ İ.
ISEAIA 2017 5ND International Symposium on Engineering, Artificial Intelligence Applications (İkinci Uluslararası Mühendislik, Yapay Zekâ ve Uygulamaları Sempozyumu), Girne, Cyprus (Kkct), 1 - 03 November 2017, pp.143-150
- VII. **ANN model of the medical ceramic beams which were subjected to tension/compression stress**
TOKTAŞ İ., ÇETİNDAG H. A., ÖZKAN M. T., ÜNVER H. N., KILIÇARSLAN A. E.
ISEAIA 2017 5ND International Symposium on Engineering, Artificial Intelligence Applications (İkinci Uluslararası Mühendislik, Yapay Zekâ ve Uygulamaları Sempozyumu), Girne, Cyprus (Kkct), 1 - 03 November 2017, pp.39-48
- VIII. **ANN modelling for the buckling analysis of medical titanium alloys**
ÖZKAN M. T., TOKTAŞ İ., ÇETİNDAG H. A., KILIÇARSLAN A. E., ÜNVER H. N.
ISEAIA 2017 5ND International Symposium on Engineering, Artificial Intelligence Applications (İkinci Uluslararası Mühendislik, Yapay Zekâ ve Uygulamaları Sempozyumu), Girne, Cyprus (Kkct), 1 - 03 November 2017, pp.28-38
- IX. **ANN analysis of titanium alloy beams according to bending for medical applications**
ÇETİNDAG H. A., ÖZKAN M. T., TOKTAŞ İ., KILIÇARSLAN A. E., ÜNVER H. N.
ISEAIA 2017 5ND International Symposium on Engineering, Artificial Intelligence Applications (İkinci Uluslararası Mühendislik, Yapay Zekâ ve Uygulamaları Sempozyumu), Girne, Cyprus (Kkct), 1 - 03 November 2017, pp.17-21
- X. **Determination of Cross Sectional Geometries of Beams According to Tension and Compression Strength Which 3D Printed With the Same Amount of Filament (Eşit Miktarda Filament Kullanımı İle 3 Boyutlu Baskısı Yapılacak Ankastre Kirişlerin Çekme/Basma Mukavemetine Göre Kesit Geometrilerinin Belirlenmesi)**
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- XI. **Optimization Of Cross Sectional Geometry Of 3D Printed Beams According To Pure Bending Strength**

With The Same Amount Of Filament (3 Boyutlu Baskısı Yapılacak Ankastre Kirişlerin Eşit Miktarda Filament Kullanımı İle Eğilme Mukavemetine Göre Kesit Geometrisi Optimizasyonu)

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- XII. **Performance Of Cross Sectional Geometries Of Beams According To Buckling Strength Which Are 3D Printed With The Same Amount Of Filament (Burkulma Mukavemetine Göre Eşit Miktarda Filament Kullanımı İle 3 Boyutlu Baskısı Yapılacak Ankastre Kirişlerin Kesit Geometri Biçimlerinin Performansı)**
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- XIII. **Dimensioning of 4 Bar Mechanisms Using Artificial Neural Network Method**
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- XIV. **Dişli Kayış Kasnak Mekanizmasında Farklı Temas Açılarının Dişli Kasnağı Üzerindeki Etkilerinin ANSYS ile Analizi**
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- XV. **Dimensioning of Slider Crank Mechanisms Using Artificial Neural Network Method**
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- XVI. **The Modeling of 3D Tibia Bone Using the CT Images and Printing**
AKTAŞ G. R., Erbaş M. K., Şanver S., DEMİR E., TOKTAŞ İ., ÖZKAN M. T.
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Alanya/Antalya, Turkey, 3 - 04 November 2016, pp.908-913
- XVII. **Static Analysis of Femur Bone under the Different Modulus of Elasticity, Bending and Torsional Moments**
ÖZKAN M. T., TOKTAŞ İ., Demir E., Tokdede A. S.
20th National Biomedical Engineering Meeting (BIYOMUT), İzmir, Turkey, 3 - 05 November 2016
- XVIII. **Multiparametric analysis of femur bone under compression stress with finite elements method**
Demir E., Yildiz M., Toktas I., ÖZKAN M. T.
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- XIX. **Definition of stress concentration factor of column with angled holed under bending stress using finite element analysis**
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- XX. **Definition of stress concentration factor for column with angled hole under tensile stress using finite element analysis**
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- XXI. **Comparison with Analytical and Finite Element Analysis of Humerus Bone With Different Implant Hole Diameters Under Combined Stress**
DEMİR E., TİRYAKİ G., TOKTAŞ İ., ÖZKAN M. T.
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- XXII. **Comparison with Analytical and Finite Element Analysis Results via Tension Test in Humerus Bone**
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BIOENG '15 II. International Bioengineering Conference, İstanbul, Turkey, 27 November 2015, pp.124-132

- XXIII. **The tensile and compressive stress analysis with finite element method on sigma profiles containing angled hole**
TOKTAŞ İ., ÖZKAN M. T., DEMİR E.
3RD INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, 3 - 05 June 2015
- XXIV. **Finite Element Investigation of Castellated Sigma Profiles Under Torsional Stress**
ÖZKAN M. T., TOKTAŞ İ., SERKAN İ.
3RD INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Spain, 3 - 05 June 2015
- XXV. **The tensile and compressive stress analysis with finite element method on the castellated beams containing hexagonal and octagonal openings**
ÖZKAN M. T., TOKTAŞ İ., DEMİR E.
3RD INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Valencia, Spain, 3 - 05 June 2015
- XXVI. **Finite Element Investigation On The Notch Sensitivity Of Castellated Beams**
ÖZKAN M. T., TOKTAŞ İ., TAMER T.
3RD INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Valencia, Spain, 3 - 05 June 2015
- XXVII. **Modal Analysis of Humerus Bone Fracture With Fixed-Fixed Boundary Condition Based on Finite Element Analysis**
KURT P., TOKTAŞ İ., ÖZKAN M. T.
ISITES 2015, (3rd International Symposium on Innovative Technologies in Engineering and Science), Valencia, Spain, 3 - 05 June 2015, pp.2556-2562
- XXVIII. **Comparison with different models of bending stress analysis of the cantilever beams under different profile section materials and loads**
JABBAR G., ÖZKAN M. T., İHSAN T., DEMİR E.
2. Yapay Zeka Uygulamaları Sempozyumu, Girne, Cyprus (Kkct), 5 - 07 November 2014
- XXIX. **Comparison with different models of tensile and compressive stress analysis on a cantilever beam model**
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- XXX. **Düz Dişli Çarklar İçin Lewis Form Faktörünün Belirlenmesi İçin Yapay Sinir Ağları Tabanlı Bir Yaklaşım**
DÜNDAR K., ÖZKAN M. T., TOKTAŞ İ.
The First International Symposium on Industrial Design Engineering, Karabük, Turkey, 8 - 09 May 2014
- XXXI. **Çelik Yapılar İçin Öngerilmeli Çelik I Kiriş Üretilebilirliğinin Araştırılması**
ÖZER A., ÖZÇATALBAŞ Y., ÖZKAN M. T.
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- XXXII. **Çelik Yapılar için Ön gerilmeli Çelik I Kiriş Üretilebilirliğinin Araştırılması**
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- XXXIII. **Eksantrik Yük Taşıyan Civataların Mukavemet Analizi ve Tasarımı**
DÜNDAR K., ÖZKAN M. T.
MATİK 1997 Makina Tasarım Teorisi ve Modern İmalat Yöntemleri Konferansı, Ankara, Turkey, 15 September 1997, pp.304-310

Supported Projects

ÖZKAN M. T., Project Supported by Higher Education Institutions, Ahşap plastik kompozit malzeme üretimi ile esneyerek

kilitlenme bağlantı (snap-fits) tasarımının iyileştirilmesi, 2019 - 2021

Özkan M. T., Erdemir F., Project Supported by Higher Education Institutions, 07/2019-02 Ahşap plastik kompozit malzeme üretimi ile esneyerek kilitlenme bağlantı (snap-fits) tasarımının iyileştirilmesi, 2018 - 2021

Özkan M. T., Project Supported by Higher Education Institutions, Hidrolik Yön Kontrol Valfinin Akış Denklemlerinin İncelenmesi, 2011 - 2015

ÖZKAN M. T., Project Supported by Higher Education Institutions, Katrıç Valfin Tasarımı Matematiksel Modellenmesi ve Analizi, 2011 - 2015

ÖZKAN M. T., Project Supported by Higher Education Institutions, KARTRİÇ VALFİN TASARIMI, MATEMATİKSEL MODELLEMESİ VE ANALİZİ, 2011 - 2014

ÖZKAN M. T., Project Supported by Higher Education Institutions, BİLGİSAYAR DESTEKLİ RULMAN TASARIMI VE SONLU ELEMENLAR YÖNTEMİ İLE MODELLENMESİ, 2010 - 2014

ÖZKAN M. T., Project Supported by Higher Education Institutions, Mekanizmalar Dersi İçin Uzaktan Eğitim Modülünün Geliştirilmesi ve Uygulanması, 2008 - 2010

Patent

Özkan M. T., Deniz suyu temizleme cihazı, Utility Model, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Registration Number: 2022/021356 , Standard Registration, 2024

Özkan M. T., HAVASIZ TEKERLEK, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: PCT/TR2023/051621 , Standard Registration, 2024

Activities in Scientific Journals

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Assistant Editor/Section Editor, 2022 - Continues

International Journal on Integrating Technology in Education (IJITE), Editor, 2020 - Continues

International Journal of Materials Science and Applications, Editor, 2020 - Continues

JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGISİ, Assistant Editor/Section Editor, 2016 - Continues

International Journal of Materials Science and Applications, Editor, 2016 - Continues

Aerospace Engineering: An International Journal (AEROIJ), Editor, 2016 - Continues

Energy and Materials , Assistant Editor/Section Editor, 2016 - Continues

Aerospace Engineering: An International Journal (AEROIJ), Editor, 2016 - Continues

Materials Science and Engineering: An International Journal , Editor, 2015 - Continues

Memberships / Tasks in Scientific Organizations

AEIC/AiScholar, Member of Science Committee, 2020 - Continues, China

AIRCC, Member of Science Committee, 2010 - Continues, India

Scientific Refereeing

JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, December 2022

ELECTRONICS (Basel), SCI Journal, November 2022

APPLIED SCIENCES, SCI Journal, November 2022

SUSTAINABILITY, SCI Journal, November 2022

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JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, February 2022
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, January 2022
European Mechanical Science, National Scientific Refreed Journal, November 2021
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, National Scientific Refreed Journal, November 2021
Project Supported by Higher Education Institutions, BAP PhD, Gazi University, Turkey, November 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, October 2021
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, September 2021
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal, September 2021
LANGMUIR, SCI Journal, June 2021
BIOMECHANICS AND MODELING IN MECHANOBIOLOGY, SCI Journal, June 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, May 2021
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, National Scientific Refreed Journal, May 2021
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, May 2021
Gazi Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, April 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, MEGGEMİ, Turkey, April 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, March 2021
International Journal of Automotive Science and Technology, National Scientific Refreed Journal, March 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, March 2021
Journal Of Intelligent Manufacturing, SCI Journal, March 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, February 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, February 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, January 2021
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, Journal Indexed in ESCI, January 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, January 2021
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, July 2020
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, June 2020
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, May 2020
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, April 2020
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JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, January 2020
JOURNAL OF INTELLIGENT MANUFACTURING, SCI Journal, January 2019

Tasks In Event Organizations

Özkan M. T., MCAI-2022 The 2022 2nd International Conference on Measurement Control and Instrumentation, Scientific Congress, China, Temmuz 2022

Özkan M. T., 10th International Conference on Information Technology in Education (ICITE 2022), Scientific Congress, Zürich, Switzerland, Mayıs 2022

Özkan M. T., 2022 International Conference on Intelligent Equipment and Automation (IEA 2022), Scientific Congress, Wuhan, China, Mayıs 2022

Özkan M. T., 9th International Conference on Mechanical Engineering (Meche 2022) <https://>, Scientific Congress, Turkey, Şubat 2022

Özkan M. T., 4th International Conference of Advances in Materials Science and Engineering (MATE 2021), Scientific Congress, Sydney, Australia, Haziran 2021

Özkan M. T., 5th International Conference on Materials Science and Engineering (MSE 2021) June 19 ~ 20, 2021, Copenhagen, Denmark, Scientific Congress, Aalborg, Denmark, Haziran 2021

Özkan M. T., 5th International Congress On 3d Printing (Additive Manufacturing) Technologies And Digital Industry (3D-PTC2021), Scientific Congress, Antalya, Turkey, Haziran 2021

Özkan M. T., 7th International Conference of Advances in Materials Science and Engineering (MAT 2021), Scientific Congress, Dubai, United Arab Emirates, Şubat 2021

Metrics

Publication: 92

Citation (WoS): 142

Citation (Scopus): 121

H-Index (WoS): 10

H-Index (Scopus): 9

Congress and Symposium Activities

4. Ulusal Mühendislikte Bilimsel ve Mesleki Çalışmalar Kongresi (UMUH BİLMES 2021), Attendee, Tokat, Turkey, 2021
2021 6th International Conference on Modern Machinery Manufacturing and Material Engineering (IC4ME), Invited Speaker, Chongqing, China, 2021

Representation and Promotion Activities

Institutional Representation, Gazi Üniversitesi, Turkey, Ankara, 2024 - 2024

Non Academic Experience

Ministry, Sanayi Bakanlığı, Ar Ge Merkezleri

TÜRKİYE ULUSAL AJANSI

MEB Karasu Endüstri Meslek Lisesi