

Assoc. Prof. Cihan DEMİR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-5465-2020

ScopusID: 7003565597

Yoksis Researcher ID: 174643

Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri, Makine Mühendisliği/Konstrüksiyon, Turkey 1997 - 2003

Postgraduate, Yildiz Technical University, Fen Bilimleri, Makine Mühendisliği, Turkey 1994 - 1997

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği, Turkey 1990 - 1994

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Altı tahrirli (6x6) askeri bir aracın silah atış pozisyonlarında ve arazide seyir halinde dinamik durumunun incelenmesi, Yıldız Teknik Üniversitesi, Fen Bilimleri, Makine Mühendisliği/Konstrüksiyon, 2003

Postgraduate, Gaz türbini kanatlarında titreşimlerin incelenmesi, Yıldız Teknik Üniversitesi, Fen Bilimleri, Makine Mühendisliği/Enerji, 1997

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, Machine Dynamics, Mechanisms, Mechanical Vibrations, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Machine, 2014 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Machine, 2005 - 2014

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Machine, 1996 - 2005

Advancing Lessons

- Aşçıoğlu Temiztaş B., Demir C., Helikopter Ana Rotor Göbeğinin Maksimum Uçuş Yükleri Altında Sonlu Elemanlar Analizi, Postgraduate, M.TALHA(Student), 2020
- Demir C., DÖNER MİL KEÇELERİNİN DİNAMİK DAVRANIŞININ SONLU ELEMANLAR YÖNTEMİYLE ANALİZİ, Postgraduate, M.KUBİLAY(Student), 2020
- Demir C., İki Tekerlekli Bir Taşıtın Dinamik Analiz ve Dengeleyicijiroskop Tasarımı, Postgraduate, V.KARAMAN(Student), 2019
- Demir C., Kinetik enerji geri kazanım sistemi tasarımı, Postgraduate, A.DANA(Student), 2019
- Demir C., Bir Taşıt Çarpışma Kutusunun Sonlu Elemanlar Analizleri, Postgraduate, E.KAYAR(Student), 2019
- Demir C., Haareket eldesi için kullanılan lamine kirişlerin mekanik tasarım ve analizi, Postgraduate, H.LAFCI(Student), 2018
- Demir C., Öngerilmeli tel halatların deneysel ve teorik analizi, Postgraduate, E.ALA(Student), 2017
- Demir C., Kam mekanizmalarının dinamik analizi, Postgraduate, O.YILDIZ(Student), 2017
- Demir C., FD kirişin EFD çubuk ve çeşitli sınır şartları altında dinamik analizi, Postgraduate, R.BAYRAK(Student), 2016
- Demir C., Fonksiyonel derecelendirilmiş Timoshenko kirişinin çeşitli sınır şartlarında dinamik analizi, Postgraduate, M.ALTINÖZ(Student), 2016
- Demir C., Çeşitli sınır şartlarında fgm kirişin dinamik analizi, Postgraduate, M.SİNAN(Student), 2013
- Demir C., Rüzgar türbinine ait planet mekanizmaların sonlu elemanlar yöntemi ile analizi, Postgraduate, H.AYDIN(Student), 2012
- Demir C., Tek silindri bir dizel motorun dinamik hesapları ve yapısal analizleri, Postgraduate, Ö.ÖZDEN(Student), 2011
- Demir C., Bir iş makinesi kabinine uygulanan dinamik analizlerin bilgisayar ortamında simülasyonu, Postgraduate, R.KEMAL(Student), 2010
- Demir C., Bir dış mekân elektronik cihaz kabininin yapısal analizi ve iyileştirilmesi, Postgraduate, O.TOPTAŞ(Student), 2010
- Demir C., Dört noktasından viskoelastik mesnetli rijit gövdeli bir sistemin harmonik ve darbe kuvvetleri etkisi altında optimum yay ve sönüm değerinin teorik ve deneysel olarak bulunması, Postgraduate, D.KARAKURT(Student), 2009
- Demir C., Elastik bir kirişin çeşitli sınır şartlarında frekans analizinin teorik ve deneysel olarak yapılması, Postgraduate, H.AKIN(Student), 2008
- Demir C., Bir gemi yapısının sonlu elemanlar yöntemi ile analizi, Postgraduate, Ö.DEMİR(Student), 2008
- Demir C., Mekanizmaların sonlu elemanlar yöntemiyle dinamik analizi, Postgraduate, S.İLKÖZ(Student), 2008
- Demir C., Bir eksantrik presin pasif titreşim kontrolü yöntemleri ile titreşim izolasyonu, Postgraduate, D.DİNÇER(Student), 2008
- Demir C., Dört noktasından mesnetli dikdörtgen plağın kararlı titreşim durumunun incelenmesi ve pasif kontrol uygulamaları, Postgraduate, S.BURAK(Student), 2007

Designed Lessons

- Demir C., VIBRATION ANALYSIS AND PREDICTIVE MAINTINANCE, Postgraduate, 2005 - 2006
- Demir C., MAKİNE MÜHENDİSLİĞİNDE SONLU ELEMANLAR YÖNTEMİ UYGULAMALARI, Postgraduate, 2005 - 2006

Published journal articles indexed by SCI, SSCI, and AHCI

I. Load Distribution and Dynamic Response in Torque Split Applications

Civan S. E., Demir C.

Machines, vol.10, no.12, pp.1-24, 2022 (SCI-Expanded)

II. Influence of fiber insertion and different material type on stress distribution in endocrown restorations: a 3D-FEA study

Yildirim G., DEMİR C., Guven M. C., KOÇ O., DALKILIÇ E.

COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, vol.25, no.13, pp.1509-1519, 2022 (SCI-Expanded)

- III. **Innovative computational modal analysis of a marine propeller**
Uslu S., BAYRAKTAR M., DEMİR C., BAYRAKTAR S.
APPLIED OCEAN RESEARCH, vol.113, 2021 (SCI-Expanded)
- IV. **The Effects of Proximal Fibular Osteotomy on the Knee and Ankle Joints: a Finite Element Analysis.**
Unal O. K., Dagtas M. Z., Demir C., Najafov T., Ugutmen E.
Acta chirurgiae orthopaedicae et traumatologiae Cechoslovaca, vol.88, no.4, pp.313-320, 2021 (SCI-Expanded)
- V. **Investigation of the Seismic Behavior of a Historical Masonry Minaret Considering the Interaction with Surrounding Structures**
Erdoğan Y. S., Kocaturk T., Demir C.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.23, pp.112-140, 2019 (SCI-Expanded)
- VI. **Water Leakage Detection for Complex Pipe Systems Using Hybrid Learning Algorithm Based on ANFIS Method**
YALÇIN B. C., DEMİR C., GÖKÇE M., KOYUN A.
JOURNAL OF COMPUTING AND INFORMATION SCIENCE IN ENGINEERING, vol.18, no.4, 2018 (SCI-Expanded)
- VII. **Vibration Analysis of a Spring Supported FG Beam Under Harmonic Force**
DEMİR C., Altinoz M.
INTERNATIONAL JOURNAL OF ACOUSTICS AND VIBRATION, vol.23, no.2, pp.175-184, 2018 (SCI-Expanded)
- VIII. **Investigation of existing damage mechanism and retrofitting of Skeuophylakion under seismic loads**
KOCATURK T., ERDOĞAN Y. S., DEMİR C., GOKCE A., ULUKAYA S., YÜZER N.
ENGINEERING STRUCTURES, vol.137, pp.125-144, 2017 (SCI-Expanded)
- IX. **Seismic analysis and investigation of damage mechanism of 57th infantry regiment memorial using finite-discrete element method**
ERDOĞAN Y. S., Kocaturk T., DEMİR C.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.4, pp.1397-1424, 2017 (SCI-Expanded)
- X. **Free vibration analysis of a functionally graded viscoelastic supported beam**
Demir C., Oz F. E.
JOURNAL OF VIBRATION AND CONTROL, vol.20, pp.2464-2486, 2014 (SCI-Expanded)
- XI. **Load sharing in lumbar spinal segment as a function of location of center of rotation**
Alapan Y., SEZER S., DEMİR C., Kaner T., Inceoglu S.
JOURNAL OF NEUROSURGERY-SPINE, vol.20, no.5, pp.542-549, 2014 (SCI-Expanded)
- XII. **Instantaneous center of rotation behavior of the lumbar spine with ligament failure**
Alapan Y., DEMİR C., Kaner T., GÜÇLÜ R., Inceoglu S.
JOURNAL OF NEUROSURGERY-SPINE, vol.18, no.6, pp.617-626, 2013 (SCI-Expanded)
- XIII. **Modeling and Dynamic Response Analysis of an Point Supported Plate by Using ANSYS and MATLAB**
Demir C., Alapan Y.
Advanced Materials Research, vol.445, pp.1088-1093, 2012 (SCI-Expanded)
- XIV. **The effects of support size on the vibration of the point supported plate**
DEMİR C., Izmirli S. B.
International Journal of Physical Sciences, vol.6, no.8, pp.1920-1928, 2011 (SCI-Expanded)
- XV. **The effect of support locations on the steady-state response of viscoelastically point-supported rectangular orthotropic plates**
Kocaturk T., Sezer S., Demir C.
ARCHIVE OF APPLIED MECHANICS, vol.75, no.1, pp.58-67, 2005 (SCI-Expanded)
- XVI. **Determination of the steady state response of visco elastically point-supported rectangular specially orthotropic plates with added concentrated masses**
Kocaturk T., SEZER S., Demir C.
JOURNAL OF SOUND AND VIBRATION, vol.278, pp.789-806, 2004 (SCI-Expanded)
- XVII. **Determination of the steady state response of viscoelastically corner point-supported rectangular specially orthotropic plates under the effect of sinusoidally varying moment**
KOCATÜRK T., Demir C., Sezer S., İlhan N.
JOURNAL OF SOUND AND VIBRATION, vol.275, pp.317-330, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Frenli Tas Mentese Kinematik, Kinetik ve Yorulma Analizi**
Bayraktar M., Bilyaz H., Demir C.
Sakarya University Journal Of Science, vol.22, no.2, pp.772-783, 2018 (Peer-Reviewed Journal)
- II. **Theoretical and experimental analysis of prestressed monotron type wire rope**
Demir C., Ala E.
SAÜ Fen Bilimleri Enstitüsü Dergisi, vol.21, no.5, pp.978-989, 2017 (Peer-Reviewed Journal)
- III. **MAIN PARAMETERS OF CAM PROFILE AND EFFECTS ON BEHAVIOR OF THE CAM PERFORMANCE**
Yildiz O., Demir C.
International Journal of Advances on Automotive and Technology, no.1, pp.89-99, 2017 (Peer-Reviewed Journal)
- IV. **Steady state response of viscoelastically corner point-supported generally orthotropic rectangular plates under the effect of sinusoidally varying moment**
KOCATÜRK T., SEZER S., DEMİR C.
Turkish Journal of Engineering and Environmental Sciences, vol.29, no.6, pp.331-341, 2005 (Scopus)
- V. **Steady State Response Of Viscoelastically Point-Supported Generally Orthotropic Rectangular Plates Under Moment**
Kocatürk T., Sezer S., Demir C.
Journal of Engineering and Environmental Sciences, vol.29, no.6, pp.331-341, 2005 (Peer-Reviewed Journal)
- VI. **Altı tekerlekli taşıtın dinamik analizi**
Demir C., Tahralı N.
Havacılık ve Uzay Teknolojileri Dergisi, vol.2, pp.1-14, 2005 (Peer-Reviewed Journal)
- VII. **THE VIBRATION ANALYSIS OF A SIX WHEELED VEHICLE**
Demir C.
Sigma Journal of Engineering and Natural Sciences , vol.223, no.3, pp.129-143, 2004 (ESCI)
- VIII. **ALTI TEKERLEKLİ TAŞITIN DENEYSEL VE TEORİK OLARAK FREKANS ANALİZİ, DİNAMİK ABSORBER UYGULAMASI**
DEMİR C.
HAVACILIK VE UZAY TEKNOLOJİLERİ DERGİSİ, vol.1, pp.27-40, 2004 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **THE EFFECTS OF PROXIMAL FIBULAR OSTEOTOMY ON THE KNEE AND ANKLE JOINTS: A FINITE ELEMENT ANALYSIS**
Ünal Ö. K., Dağtaş M. Z., Demir C., Najafov T., Ugutmen E.
The 28th Annual Meeting of the European Orthopaedic Research Society (EORS), İzmir, Turkey, 17 - 18 September 2020, vol.102, no.20494416, pp.93
- II. **"Finite element analysis of a main rotor hub under maximum flying loads for a helicopter"**
Ertunç M. T., Aşçıoğlu Temiztaş B., Demir C.
3. INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE, MECHANICAL AND AUTOMOTIVE ENGINEERINGS AND TECHNOLOGY IN TURKEY, Nevşehir, Turkey, 24 - 26 June 2020, pp.396
- III. **DÖNER MİL KEÇELERİNDE KONTAK YÜKÜNÜN SONLU ELEMENLAR YÖNTEMİYLE ELDE EDİLMESİ**
Erdoğan M. K., Demir C.
4. ULUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 23 - 24 April 2019, pp.1416
- IV. **GYRO BALANCING CONTROL OF TWO WHEELED VEHICLE**
Karaman V., Demir C.
4. ULUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 23 - 24 April 2019, pp.767-776
- V. **CLINCHING STRENGTHS OF DIFFERENT SHEET METALS THAT CLINCHED WITH SAME TOOLS AT SAME**

PRESS PARAMETERS

Cerkez V., Bayraktar M., Demir C.

1st International Symposium on Graduate Research in Science: Focus on Entrepreneurship and Innovation,, İstanbul, Turkey, 04 October 2018, vol.1, no.1, pp.1-5

- VI. **1.2MW RÜZGAR TÜRBİNİ KANADININ AERODİNAMİK OPTİMİZASYONU**
GEDİK O., AKDOĞAN EKER A., DEMİR C.
3. ULUSLARARASI MUHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, Kocaeli, Turkey, 4 - 05 May 2018, pp.71-72
- VII. **Design and Analysis of Multilayer Beams which are Used for Motion**
LAFCI H., DEMİR C.
International Conference on Advances and Innovations in Engineering, Elazığ, Turkey, 10 May 2017, pp.479-486
- VIII. **HARMONIC ANALYSIS OF A SPRING SUPPORTED FUNCTIONALLY GRADED BAR**
Bayrak R., Kenan H., Demir C.
The 12th International Conference of Constructive Design and Technological Optimization in Machine Building, Bacau, Romania, 02 June 2016, pp.54
- IX. **HARMONIC ANALYSIS OF A VISCOELASTIC SUPPORTED FUNCTIONALLY GRADED BAR**
KENAN H., DEMİR C., BAYRAK R.
The 12th International Conference of Constructive Design and Technological Optimization in Machine Building, Bacau, Romania, 02 June 2016, pp.53
- X. **Modeling and dynamic response analysis of an point supported plate by using ANSYS and MATLAB**
DEMİR C., Alapan Y.
14th International Conference on Advances in Materials and Processing Technologies, AMPT 2011, İstanbul, Turkey, 13 - 16 July 2011, vol.445, pp.1088-1093
- XI. **Free Vibration analysis of a functionally graded beam with finite elements method**
DEMİR C., ÖZ F. E.
the 10th International Conference on Vibration Problems, 1 - 05 November 2011, pp.37-43
- XII. **Free Vibration Analysis of a Functionally Graded Beam with Finite Elements Method**
DEMİR C., ÖZ F.
10th Biennial International Conference on Vibration Problems (ICOVP), Prague, Czech Republic, 5 - 08 September 2011, pp.37-43
- XIII. **Viskoelastik Nokta Mesnetli Viskoelastik Bir Kirişin Sinüzoidal Değişen Kuvvet Etkisi Altındaki Kararlı Durum Cevabının İncelenmesi**
KOCATÜRK T., Demir C., İlhan N., Şimşek M.
01 September 2005, pp.591-600

Supported Projects

- Aktaş M. Z., Demir C., TUBITAK Project, 40 Bar – 2150 Nm³/h kapasiteli 3 kademeli boksör tipi kompresör tasarımı ve enerji verimliliğinin iyileştirilmesi, 2016 - 2017
- Akşit M. F., Umurkan N., Dikmen F., Demir C., Kepçeler T., TUBITAK Project, Milli Rüzgâr Enerji Sistemleri Geliştirilmesi ve Prototip Türbin Üretimi (MILRES), 2011 - 2013
- Erdem H. H., Demir C., Dağdaş A., TUBITAK Project, Termik Santral Performans İzleme ve Değerlendirme Sistem Tasarımı ve Uygulaması, 2011 - 2013
- Sandalcı T., Demir C., Industrial Thesis Project, 1550 2250 d d da 20 25 kW Güç Üretmek Üzere Tasarımı Yapılmış Tek Silindirli Bir Dizel Motoru nun Performans ve Emisyonlarının Optimizasyonu, 2010 - 2012
- Demir Ö., Demir C., Project Supported by Higher Education Institutions, Dört noktadan viskoelastik mesnetli rijit gövdeli bir sistemin harmonik ve darbe kuvvetleri etkisi altında optimum yay ve sönüm değerinin teorik ve deneysel olarak bulunması, 2007 - 2010

Metrics

Publication: 38

Citation (WoS): 78

Citation (Scopus): 105

H-Index (WoS): 6

H-Index (Scopus): 6