

Prof. ENDER CİĞEROĞLU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: G-5014-2012

ScopusID: 12760002600

Yoksis Researcher ID: 164971

Education Information

Doctorate, Ohio State University, Makina Mühendisliği, United States Of America 2002 - 2007

Postgraduate, Ohio State University, Makina Mühendisliği, United States Of America 2002 - 2006

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Makine Mühendisliği (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Middle East Technical University, Odtü Kuzey Kıbrıs Kampusu (Kktc-Güzelyurt), Makine Mühendisliği Bölümü, Turkey 1995 - 1999

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, Machine Dynamics, Vehicle Systems Dynamics, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations, Mechanical, Solid Mechanics, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2019 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2014 - 2019

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2009 - 2014

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2008 - 2009

Academic and Administrative Experience

Director of the Center, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2024 - Continues

Department Academic Incentive Evaluation Commission Member, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2019 - Continues

Deputy Unit President Attached to the Rectorate, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2009 - 2023

Advising Theses

- Ciğeroğlu E., Nonlinear modeling and identification of cracks in beams by using Euler-Bernoulli beam theory and experiments, Doctorate, A.ÇAĞRI(Student), 2023
- Baran Ö. U., Ciğeroğlu E., Linearized harmonic methods for unsteady airfoil simulations, Postgraduate, M.ŞENKARDEŞLER(Student), 2023
- Ciğeroğlu E., Determination of flutter speed of nonlinear wings, Postgraduate, G.KÖSTERİT(Student), 2023
- Ciğeroğlu E., Development of a novel Galerkin transformed differential quadrature method and its application to size dependent nonlinear vibration analysis of fluid conveying carbon nanotubes, Postgraduate, D.NURİ(Student), 2023
- Ciğeroğlu E., Fault detection of a planetary gear system based on non-linear dynamic modeling and vibration signals via non-stationary time series models, Doctorate, B.HOSSEINIAGHDAM(Student), 2023
- Ciğeroğlu E., Direct resonance response prediction of nonlinear structures: A case study on bladed disk assemblies, Postgraduate, T.AHİ(Student), 2023
- Ciğeroğlu E., Nonlinear free vibration analyses of size-dependent functionally graded annular microplates possessing variable length scale parameter, Doctorate, S.MIZRAK(Student), 2023
- CİĞEROĞLU E., Nonlinear vibration analysis of functionally graded beams, Postgraduate, D.DEDEKÖY(Student), 2022
- CİĞEROĞLU E., Estimation of wear in dry friction dampers and its effect on vibration reduction, Postgraduate, A.ÇARDAK(Student), 2022
- CİĞEROĞLU E., VIBRATION REDUCTION BY THE USE OF BEAM-TYPE METASTRUCTURES WITH NONLINEAR ATTACHMENTS, Postgraduate, B.MERT(Student), 2022
- CİĞEROĞLU E., Nonlinear vibrations and reduced order modeling of bolted joints, Postgraduate, H.BEYAN(Student), 2022
- CİĞEROĞLU E., Reduced-order modeling of bladed disk systems with shrouds by component mode synthesis, Postgraduate, E.NAGHIZADEH(Student), 2022
- CİĞEROĞLU E., A new jacobian matrix calculation method to decrease computational time in periodic force response analysis of nonlinear structures, Postgraduate, H.Sef(Student), 2019
- Ciğeroğlu E., Vibration reduction of structures by using nonlinear tuned vibration absorbers, Postgraduate, M.EMİN(Student), 2019
- Ciğeroğlu E., Nonlinear vibration analysis of rotors supported by ball bearings, Postgraduate, D.BAHAN(Student), 2019
- Ciğeroğlu E., A NEW JACOBIAN MATRIX CALCULATION METHOD TO DECREASE COMPUTATIONAL TIME IN PERIODIC FORCED RESPONSE ANALYSIS OF NONLINEAR STRUCTURES, Postgraduate, H.SEFA(Student), 2019
- Ciğeroğlu E., Özgüven H. N., Development of a hybrid global optimization algorithm and its application to helicopter rotor structural optimization, Postgraduate, M.EMRE(Student), 2019
- Ciğeroğlu E., Nonlinear reduced order modeling of bolted joints, Postgraduate, G.KARAPISTIK(Student), 2019
- Ciğeroğlu E., Yazıcıoğlu Y., Nonlinear modeling and vibration analysis of horizontal drum type washing machines, Postgraduate, C.BAYKAL(Student), 2019
- Ciğeroğlu E., Investigation of mechanical vibrations of double-double cardan shaft and effects on suspension system in armored vehicles, Postgraduate, Ö.İŞİK(Student), 2019
- CİĞEROĞLU E., ÖZGÜVEN H. N., A parametric study on planetary gear dynamics, Doctorate, V.YALIN(Student), 2018
- CİĞEROĞLU E., Nonlinear dynamic analysis of a drivetrain composed of cylindrical gears, straight and spiral bevel gears, Doctorate, Ş.DENİZ(Student), 2018
- CİĞEROĞLU E., Development of a new adaptive harmonic balance method and its comparison, Postgraduate, O.SERT(Student), 2018
- CİĞEROĞLU E., Structural coupling of two nonlinear structures, Postgraduate, Ç.TEPE(Student), 2018
- CİĞEROĞLU E., Nonlinear dynamics of a spiral bevel gear pair, Postgraduate, B.ÖNAL(Student), 2018
- CİĞEROĞLU E., Nonlinear dynamics of spiral bevel gear pair, Postgraduate, B.Önal(Student), 2018
- Ciğeroğlu E., Özgen G. O., Nonlinear vibration isolation of inertial measurement unit, Postgraduate, A.DÖNMEZ(Student),

2018

CİĞEROĞLU E., ÖZGÜVEN H. N., A new modal superposition method for nonlinear vibration analysis of structures using hybrid mode shapes, Postgraduate, E.FERHATOĞLU(Student), 2018

CİĞEROĞLU E., DAĞ S., New modeling and analysis methods for micro-plates, Doctorate, R.AGHAZADEH(Student), 2017

CİĞEROĞLU E., ÖZGEN G. O., Finite element model updating of aerospace structures, Postgraduate, D.ÜNLU(Student), 2017

CİĞEROĞLU E., Reduced order modeling of mistuned bladed disk systems by using Craig-Bampton method, Postgraduate, C.YILDIRIM(Student), 2017

CİĞEROĞLU E., Vibration reduction of helicopter tail shaft by using dry friction dampers, Postgraduate, O.ÖZAYDIN(Student), 2017

CİĞEROĞLU E., ÇALIŞKAN M., Modeling and experimental verification of dynamic characteristics antenna structure under mechanical shock using MDOF model, Postgraduate, Y.Emre(Student), 2015

CİĞEROĞLU E., Modeling and experimental verification of dynamic characteristics of the antenna structure under mechanical shock using mdof models, Postgraduate, Y.EMRE(Student), 2015

CİĞEROĞLU E., DEVELOPMENT OF A NEW ADAPTIVE HARMONIC BALANCE METHOD, Postgraduate, O.SERT(Student), 2015

CİĞEROĞLU E., STRUCTURAL COUPLING OF NONLINEAR STRUCTURES, Postgraduate, Ç.TEPE(Student), 2015

CİĞEROĞLU E., Chatter reduction in boring process by using piezoelectric shunt circuits, Postgraduate, U.YIĞIT(Student), 2014

Yazıcıoğlu Y., Cığeroğlu E., Modeling of Aircraft Aeroelastic Effects on External Store Separation, Doctorate, M.TUĞRUL(Student), 2014

Yazıcıoğlu Y., Cığeroğlu E., Dynamic modeling and control of a hybrid fin actuation system for an air-to-air missile, Postgraduate, T.ÇELİK(Student), 2014

CİĞEROĞLU E., Nonlinear vibrations of curved single and doublewalled carbon nanotubes /, Doctorate, S.HAMED(Student), 2014

CİĞEROĞLU E., ÖZGEN G. O., DESIGN OF A TEST SETUP FOR THE CHARACTERIZATION OF VIBRATION ISOLATORS, Postgraduate, C.UZ(Student), 2013

CİĞEROĞLU E., Analytical modeling and stability analysis of spindle-holder-tool assembly by using spinning and non-spinning Timoshenko Beam Theories, Postgraduate, H.Yılmaz(Student), 2013

CİĞEROĞLU E., ÖZGEN G. O., Finite element modelling and analysis of recoil springs in automatic weapons, Postgraduate, H.ZALOĞLU(Student), 2013

CİĞEROĞLU E., Analytical modeling and stability analysis of spindle-holder-tool assembly by using spinning and non-spinning Timoshenko beam theories, Postgraduate, H.YILMAZ(Student), 2013

CİĞEROĞLU E., DAĞ S., Static and free vibration analyses of small-scale functionally graded beams possessing a variable length scale parameter using different beam theories, Postgraduate, R.AGHAZADEH(Student), 2013

CİĞEROĞLU E., Application of structural modification method to nonlinear vibration analysis of bladed disks, Postgraduate, B.ŞAYIN(Student), 2013

CİĞEROĞLU E., Design, control and optimization of vehicle suspensions with inerters, Postgraduate, O.GERGER(Student), 2013

CİĞEROĞLU E., DEVELOPMENT OF A PASSIVE VIBRATION ISOLATION ANALYSIS AND OPTIMIZATION SOFTWARE FOR MECHANICAL SYSTEMS, Postgraduate, O.YAVUZ(Student), 2013

CİĞEROĞLU E., Vibration fatigue analysis of structures installed on air platforms, Postgraduate, Y.ELDOĞAN(Student), 2012

CİĞEROĞLU E., Vibration isolation of inertial measurement unit, Postgraduate, D.ÇINAREL(Student), 2012

CİĞEROĞLU E., ÖZGÜVEN H. N., Possibilistic interpretation of mistuning in bladed disks by fuzzy algebra, Postgraduate, H.ÇAĞLAR(Student), 2012

CİĞEROĞLU E., Frequency domain optimization of dry friction dampers used for earthquake vibration damping of buildings, Postgraduate, Z.EREN(Student), 2012

CİĞEROĞLU E., Sliding mode control algorithm development for anti-lock brake system, Postgraduate, A.OKYAY(Student), 2011

CİĞEROĞLU E., ÖZGEN G. O., Optimization of vibration characteristics of a radar antenna structure, Postgraduate,

İ.BARAN(Student), 2011

ÇİĞEROĞLU E., Design of an engine mount with dry friction damping, Postgraduate, C.BORAL(Student), 2010

ÇİĞEROĞLU E., Desing of an engine mount with dry friction damping, Postgraduate, C.Boral(Student), 2010

ÇİĞEROĞLU E., RIDE COMFORT IMPROVEMENT BY APPLICATION OF TUNED MASS DAMPERS AND LEVER TYPE VIBRATION ISOLATORS, Postgraduate, G.AYDAN(Student), 2010

ÇİĞEROĞLU E., ÖZGÜVEN H. N., On the non-linear vibration and mistuning identification of bladed disks, Postgraduate, M.ERSİN(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Coupled thermo-elastic dynamics of rotating pre-twisted blades exposed to thermal shock including nonlinear rotational effects**
Lotfan S., ÇİĞEROĞLU E.
JOURNAL OF SOUND AND VIBRATION, vol.594, 2025 (SCI-Expanded)
- II. **A weak-form spectral Chebyshev technique for nonlinear vibrations of rotating functionally graded beams**
Lotfan S., Dedekoy D., Bediz B., ÇİĞEROĞLU E.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.31, no.16, pp.3651-3665, 2024 (SCI-Expanded)
- III. **A receptance based method for the calculation of nonlinear normal modes of large ordered structures with distributed localized nonlinearities**
Samandari H., ÇİĞEROĞLU E.
INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, vol.147, 2022 (SCI-Expanded)
- IV. **Nonlinear resonances of axially functionally graded beams rotating with varying speed including Coriolis effects**
Lotfan S., Anamagh M. R., Bediz B., Çiğeroğlu E.
NONLINEAR DYNAMICS, vol.107, no.1, pp.533-558, 2022 (SCI-Expanded)
- V. **Ideal tooth profile modifications for improving nonlinear dynamic response of planetary gear trains**
Ozturk V. Y., ÇİĞEROĞLU E., ÖZGÜVEN H. N.
JOURNAL OF SOUND AND VIBRATION, vol.500, 2021 (SCI-Expanded)
- VI. **An improved quasi-zero stiffness vibration isolation system utilizing dry friction damping**
Donmez A., ÇİĞEROĞLU E., ÖZGEN G. O.
NONLINEAR DYNAMICS, vol.101, no.1, pp.107-121, 2020 (SCI-Expanded)
- VII. **Nonlinear dynamic analysis of a drivetrain composed of spur, helical and spiral bevel gears**
Yavuz S. D., Saribay Z. B., ÇİĞEROĞLU E.
NONLINEAR DYNAMICS, vol.100, no.4, pp.3145-3170, 2020 (SCI-Expanded)
- VIII. **Enhancement of the reliability of MEMS shock sensors by adopting a dual-mass model**
Fathalilou M., Soltani K., Rezazadeh G., ÇİĞEROĞLU E.
MEASUREMENT, vol.153, 2020 (SCI-Expanded)
- IX. **A novel modal superposition method with response dependent nonlinear modes for periodic vibration analysis of large MDOF nonlinear systems**
Ferhatoglu E., ÇİĞEROĞLU E., ÖZGÜVEN H. N.
Mechanical Systems and Signal Processing, vol.135, 2020 (SCI-Expanded)
- X. **A novel two-step pseudo-response based adaptive harmonic balance method for dynamic analysis of nonlinear structures**
Sert O., Çiğeroğlu E.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.130, pp.610-631, 2019 (SCI-Expanded)
- XI. **Modeling of aircraft effects on external store ejection**
Kozak M. T., Yıldız E. N., Yazıcıoğlu Y., Çiğeroğlu E.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.233, no.10, pp.3612-3626, 2019 (SCI-Expanded)

- XII. **Setup for testing the vibration-based loosening of pre-loaded bolted joints**
Cavdar F. Y., Bilal H., Güllü R., Güler B., Cigeroglu E., Cavdar K., Solmaz E.
Materialpruefung/Materials Testing, vol.61, no.10, pp.981-985, 2019 (SCI-Expanded)
- XIII. **Thermal effect on bending, buckling and free vibration of functionally graded rectangular micro-plates possessing a variable length scale parameter**
Aghazadeh R., Dağ S., Ciğeroğlu E.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.24, pp.3549-3572, 2018 (SCI-Expanded)
- XIV. **A new modal superposition method for nonlinear vibration analysis of structures using hybrid mode shapes**
Ferhatoglu E., Ciğeroğlu E., Özgüven H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.107, pp.317-342, 2018 (SCI-Expanded)
- XV. **Nonlinear time-varying dynamic analysis of a spiral bevel geared system**
Yavuz S. D., Saribay Z. B., Ciğeroğlu E.
NONLINEAR DYNAMICS, vol.92, pp.1901-1919, 2018 (SCI-Expanded)
- XVI. **Modelling of graded rectangular micro-plates with variable length scale parameters**
Aghazadeh R., Dağ S., Ciğeroğlu E.
STRUCTURAL ENGINEERING AND MECHANICS, vol.65, pp.573-585, 2018 (SCI-Expanded)
- XVII. **Localization and identification of structural nonlinearities using cascaded optimization and neural networks**
Koyuncu A., Ciğeroğlu E., Özgüven H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.95, pp.219-238, 2017 (SCI-Expanded)
- XVIII. **Vibration-based tool wear estimation by using non-stationary Functional Series TARMA (FS-TARMA) models**
Aghdam B. H., Ciğeroğlu E.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.93, pp.1431-1442, 2017 (SCI-Expanded)
- XIX. **Chatter reduction in boring process by using piezoelectric shunt damping with experimental verification**
Yığıt U., Ciğeroğlu E., Budak E.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.94, pp.312-321, 2017 (SCI-Expanded)
- XX. **Free vibration analysis of functionally graded rectangular nanoplates considering spatial variation of the nonlocal parameter**
Ghassabı A. A., Dağ S., Ciğeroğlu E.
ARCHIVES OF MECHANICS, vol.69, pp.105-130, 2017 (SCI-Expanded)
- XXI. **Dynamics and stability of conical/cylindrical shells conveying subsonic compressible fluid flows with general boundary conditions**
Rahmanian M., Firouz-Abadi R. D., Ciğeroğlu E.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.120, pp.42-61, 2017 (SCI-Expanded)
- XXII. **Free vibrations of moderately thick truncated conical shells filled with quiescent fluid**
Rahmanian M., Firouz-Abadi R. D., Ciğeroğlu E.
JOURNAL OF FLUIDS AND STRUCTURES, vol.63, pp.280-301, 2016 (SCI-Expanded)
- XXIII. **Nonlinear free vibrations of curved double walled carbon nanotubes using differential quadrature method**
Ciğeroğlu E., Samandari H.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.64, pp.95-105, 2014 (SCI-Expanded)
- XXIV. **Static and free vibration analyses of small-scale functionally graded beams possessing a variable length scale parameter using different beam theories**
Aghazadeh R., Ciğeroğlu E., Dağ S.
EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, vol.46, pp.1-11, 2014 (SCI-Expanded)
- XXV. **A new sliding-mode controller design methodology with derivative switching function for anti-lock**

brake system

Okyay A., Ciğeroğlu E., Başlamışlı S. Ç.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.227, pp.2487-2503, 2013 (SCI-Expanded)

XXVI. Mistuning Identification of Integrally Bladed Disks With Cascaded Optimization and Neural Networks

Yumer M. E., Ciğeroğlu E., Özgüven H. N.

JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME, vol.135, 2013 (SCI-Expanded)

XXVII. Nonlinear free vibration of double walled carbon nanotubes by using describing function method with multiple trial functions

Ciğeroğlu E., Samandari H.

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.46, pp.160-173, 2012 (SCI-Expanded)

XXVIII. Forced Response Prediction of Constrained and Unconstrained Structures Coupled Through Frictional Contacts

Ciğeroğlu E., An N., Menq C.

JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME, vol.131, 2009 (SCI-Expanded)

XXIX. A microslip friction model with normal load variation induced by normal motion

Cigeroglu E., An N., Menq C.

NONLINEAR DYNAMICS, vol.50, pp.609-626, 2007 (SCI-Expanded)

XXX. Nonlinear vibration analysis of bladed disks with dry friction dampers

Cigeroglu E., Ozguven H. N.

JOURNAL OF SOUND AND VIBRATION, vol.295, pp.1028-1043, 2006 (SCI-Expanded)

XXXI. One-dimensional dynamic microslip friction model

Cigeroglu E., Lu W., Menq C.

JOURNAL OF SOUND AND VIBRATION, vol.292, pp.881-898, 2006 (SCI-Expanded)

Books & Book Chapters

I. SAVTEK 2022 10. Savunma Teknolojileri Kongresi Bildiriler

Leblebicioğlu M. K. (Editor), Gökler M. İ. (Editor), Yıldırım R. O. (Editor), Ciğeroğlu E. (Editor), Özgen G. O. (Editor), Uluyurt A. G. (Editor)

Orta Doğu Teknik Üniversitesi, Ankara, 2022

II. SAVTEK 9, Savunma Teknolojileri Kongresi Bildiriler

Ciğeroğlu E. (Editor), Yıldırım R. O. (Editor), Özgen G. O. (Editor), Gökler M. İ. (Editor), Leblebicioğlu M. K. (Editor)

Elma Yayınevi, Ankara, 2018

Refereed Congress / Symposium Publications in Proceedings

I. Parameter Optimization and Comparison of Different Small-Scale Elasticity Theories for Carbon Nanotubes

Kılıçarslan D., CİĞEROĞLU E.

42nd IMAC, A Conference and Exposition on Structural Dynamics, IMAC 2024, Florida, United States Of America, 29 January - 01 February 2024, pp.45-51

II. Effect of Structural Parameters on the Nonlinear Vibration of L-Shaped Beams

Ekici Y., CİĞEROĞLU E., YAZICIOĞLU Y.

41st IMAC, A Conference and Exposition on Structural Dynamics, 2023, Austin, United States Of America, 13 - 16 February 2023, pp.23-32

III. Nonlinear Vibration Analysis of a Two-Blade System with Shroud-to-Shroud Contact by Using Response-Dependent Nonlinear Normal Modes

Ahi T., CİĞEROĞLU E., ÖZGÜVEN H. N.

42nd IMAC, A Conference and Exposition on Structural Dynamics, IMAC 2024, Florida, United States Of America, 29 January - 01 February 2024, pp.107-113

- IV. **An Assessment on the Efficiency of Different Reduction Techniques Based on Substructuring for Bladed Disk Systems with Shrouds**
Naghizadeh E., CİĞEROĞLU E.
40th Conference and Exposition on Structural Dynamics (IMAC), Florida, United States Of America, 7 - 10 February 2022, pp.49-57
- V. **Determination of Flutter Speed of 2D Nonlinear Wing by Using Describing Function Method and State-Space Formulation**
KÖSTERİT G., CİĞEROĞLU E.
40th Conference and Exposition on Structural Dynamics (IMAC), Florida, United States Of America, 7 - 10 February 2022, pp.101-107
- VI. **APPLICATION OF MODAL SUPERPOSITION METHOD WITH RESPONSE DEPENDENT NONLINEAR MODES ON THE FORCED RESPONSE ANALYSIS OF BOLTED JOINT CONNECTIONS**
Beyan H., CİĞEROĞLU E.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Louisiana, United States Of America, 29 October - 02 November 2023
- VII. **EFFECT OF WEAR ON THE FORCED RESPONSE OF A SHROUDED BLADE**
Cardak A., CİĞEROĞLU E.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Louisiana, United States Of America, 29 October - 02 November 2023
- VIII. **Nonlinear Vibration Analysis of Uniform and Functionally Graded Beams with Spectral Chebyshev Technique and Harmonic Balance Method**
Dedekoy D., Ciğeroğlu E., Bediz B.
40th Conference and Exposition on Structural Dynamics (IMAC), Florida, United States Of America, 7 - 10 February 2022, pp.119-129
- IX. **EFFECT OF NONLINEARITIES ON THE VIBRATION REDUCTION PERFORMANCE OF A SYSTEM WITH MULTIPLE NONLINEAR TUNED MASS DAMPERS**
Ekici Y., CİĞEROĞLU E.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Louisiana, United States Of America, 29 October - 02 November 2023
- X. **EFFECT OF NUMBER OF CONTACT POINTS ON THE FRETTING WEAR ESTIMATION OF A FRICTIONALLY DAMPED BLADE PLATFORM**
Cardak A., CİĞEROĞLU E.
ASME International Mechanical Engineering Congress and Exposition (IMECE) 2022, Orlando, Florida, United States Of America, 30 October 2022
- XI. **DOĞRUSALLAŞTIRILMIŞ EULER DENKLEMLERİYLE 2B KANAT PROFİLLERİ İÇİN ÇIRPINTI HIZININ BELİRLENMESİ**
Kösterit G., Ardiç A. T., Karshenass A., Ciğeroğlu E., Baran Ö. U.
SAVTEK 2022, 10. SAVUNMA TEKNOLOJİLERİ KONGRESİ, Ankara, Turkey, 13 - 15 September 2022, pp.741-751
- XII. **Nonlinear Vibration Analysis of Uniform and Functionally Graded Beams with Spectral Chebyshev Technique and Harmonic Balance Method**
Dedeköy D., Ciğeroğlu E., Bediz B.
IMAC XL, A Conference and Exposition on Structural Dynamics, Florida, United States Of America, 7 - 10 February 2022, pp.1-11
- XIII. **Determination of Flutter Speed of 2D Nonlinear Wing by Using Describing Function Method and State-Space Formulation**
Kösterit G., Ciğeroğlu E.
IMAC XL, A Conference and Exposition on Structural Dynamics, Florida, United States Of America, 7 - 10 February 2022, pp.1-8

- XIV. **An Assessment on the Efficiency of Different Reduction Techniques Based on Substructuring for Bladed Disk Systems with Shrouds**
Naghizadeh E., Ciğeroğlu E.
IMAC XL, A Conference and Exposition on Structural Dynamics, Florida, United States Of America, 7 - 10 February 2022, pp.1-8
- XV. **Determination of Nonlinear Joint Forces and Nonlinear Identification of Jointed Connections Using FRFs**
Soleimani H., Ciğeroğlu E., Özgüven H. N.
IMAC XL, A Conference and Exposition on Structural Dynamics, 2022, Florida, United States Of America, 7 - 10 February 2022, pp.1-5
- XVI. **Nonlinear Vibrations of Rotor-Bearing Systems Supported by Squeeze Film Dampers Due to Unbalance Excitation**
Sevencan F., Ciğeroğlu E., Baran Ö. U.
American Society of Mechanical Engineers IMECE 2021, Florida, United States Of America, 01 November 2021
- XVII. **DEVELOPMENT OF LINEARIZED EULER SOLVERS ON FREQUENCY DOMAIN FOR OSCILLATING AIRFOILS**
ARDIÇ A. T., SAYGIN A., BARAN Ö. U., CİĞEROĞLU E.
Ankara International Aerospace Conference, Ankara, Turkey, 08 September 2021
- XVIII. **Nonlinear Free Vibrations of Functionally Graded Microplates Based on the Modified Couple Stress Theory**
Demirkaya S., CİĞEROĞLU E.
NODYCON 2021 Second International Nonlinear Dynamics Conference, Roma, Italy, 16 - 19 February 2021
- XIX. **Development and Verification of Finite Element Model of a Product-Fixture Assembly used for Shaker Testing**
Türker C., CİĞEROĞLU E., ÖZGEN G. O.
IMAC-XXXIX Conference and Exposition on Structural Dynamics, United States Of America, 8 - 11 February 2021
- XX. **On the solution of nonlinear algebraic equations following periodic forced response analysis of nonlinear structures using different nonlinear solvers**
Kizilay H. S., Ciğeroğlu E.
38th IMAC, A Conference and Exposition on Structural Dynamics, 2020, Texas, United States Of America, 10 - 13 February 2020, pp.121-127
- XXI. **Vibration reduction of a structure by using nonlinear tuned vibration absorbers**
Dogan M. E., Ciğeroğlu E.
38th IMAC, A Conference and Exposition on Structural Dynamics, 2020, Texas, United States Of America, 10 - 13 February 2020, pp.231-235
- XXII. **3D linear identification of mechanical joint using FRF decoupling and inverse structural modification methods**
Soleimani H., Ciğeroğlu E., Özgüven H. N.
33rd Conference on Mechanical Vibration and Sound, VIB 2021, Held as Part of the ASME 2021 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC-CIE 2021, Virtual, Online, 17 - 19 August 2021, vol.10
- XXIII. **Integration of parameter sensitivity to structural optimization of helicopter rotors for minimum vibration**
BİLEN M. E., CİĞEROĞLU E., ÖZGÜVEN H. N.
VIBRATIONS IN ROTATING MACHINERY- VIRM 12, 14 - 15 October 2020
- XXIV. **On the Solution of Nonlinear Algebraic Equations Following Periodic Forced Response Analysis of Nonlinear Structures Using Different Nonlinear Solvers**
KIZILAY H. S., CİĞEROĞLU E.
IMAC XXXVIII: Conference Exposition on Structural Dynamics, 10 - 13 February 2020
- XXV. **Numerical Computation of Nonlinear Normal Modes (NNMs) by using Response Dependent Nonlinear Mode (RDNM) Concept**

Karaağaçlı T., Ciğeroğlu E., Özgüven H. N.

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- XXVI. **Nonlinear Dynamic Analysis of an Asymmetric Ball Bearing Rotor System**
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- XXVII. **Evaluation of Surrogate-Based Modeling Methods for the Optimization of Helicopter Rotor Structures for Minimum Vibration**
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8th Asian/Australian Rotorcraft Forum, Ankara, Turkey, 31 October - 02 November 2019
- XXVIII. **Design of an Experimental Setup for Periodic Forced Response Analysis of Shrouded Blades with Frictional Contacts**
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- XXIX. **Nonlinear Forced Response Analysis of Bladed Disks With Wedge Dampers**
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- XXX. **Periodic Vibration Analysis of Nonlinear Structures by Using Response Dependent Nonlinear Modes**
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- XXXI. **Identifying the joint dynamics of a bolted beam system by using FRF decoupling and the SEMM expansion technique**
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- XXXII. **Frequency domain non-linear modelling and analysis of liquid filled column dampers**
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- XXXIII. **Vibration analysis of washing machines in the drum plane**
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- XXXIV. **Vibration reduction by using two tuned mass dampers with dry friction damping**
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- XXXV. **Nonlinear 3D Modeling and Vibration Analysis of Horizontal Drum Type Washing Machines**
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- XXXVI. **A Novel Computational Method to Calculate Nonlinear Normal Modes of Complex Structures**
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- XXXVII. **Reduced Order Modeling of Bolted Joints in Frequency Domain**
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- XXXVIII. **Comparison of Linear and Nonlinear Modal Reduction Approaches**
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- XXXIX. **Dynamic characterization of double-relief profile modifications in planetary gear systems**

Öztürk V. Y., Ciğeroğlu E., Özgüven H. N.

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- XL. **Approximate analytical solution of nonlinear natural frequencies of a functionally graded material microbeam by using multiple harmonic balance method**
Uz C., CİĞEROĞLU E.
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- XLII. **THE EFFECT OF STIFFNESS AND LOADING DEVIATIONS IN A NONLINEAR ISOLATOR HAVING QUASI ZERO STIFFNESS AND GEOMETRICALLY NONLINEAR DAMPING**
Donmez A., CİĞEROĞLU E., ÖZGEN G. O.
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- XLIII. **Reduction of Helicopter Rotor Vibratory Loads Through Robust and Hybrid Optimization**
BİLEN M. E., CİĞEROĞLU E., ÖZGÜVEN H. N.
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- XLIV. **The Effect of Stiffness and Loading Deviations in a Nonlinear Isolator Having Quasi Zero Stiffness and Geometrically Nonlinear Damping**
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- XLV. **Non-linear Dynamic Analysis for the Lateral Vibration of Beams with Breathing Crack under Harmonic Excitation Using Finite Element Method**
Özkan B., Ciğeroğlu E., Özgen G. O., Kadioğlu F. S.
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- XLVI. **Nonlinear Transverse Vibrations of a Beam with Multiple Breathing Edge Cracks**
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- XLVII. **Effect of Dry Friction Damping on the Dynamic Response of Helicopter Tail Shaft**
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- XLVIII. **Nonlinear Vibrations of a Functionally Graded Material Microbeam with Geometric Nonlinearity**
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- L. **A Modal Superposition Method for the Analysis of Nonlinear Systems**
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- L. **Functional Series TARMA Models for Non-stationary Tool Vibration Signals Representation and Wear Estimation**
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- LI. **Shock Response of an Antenna Structure Considering Geometric Nonlinearity**

Ozcelik Y. E., CİĞEROĞLU E., ÇALIŞKAN M.

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- LII. **Nonlinear Time-Varying Dynamic Analysis of a Multi-Mesh Spur Gear Train**
Yavuz S. D., Sarıbay Z. B., CİĞEROĞLU E.
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- LIII. **A Modified Inverse Eigensensitivity Method for Large Finite Element Models**
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- LIV. **Nonlinear Vibrations of a Beam with a Breathing Edge Crack Using Multiple Trial Functions**
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- LV. **Adaptive Harmonic Balance Methods, A Comparison**
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- LVI. **Functional Series TARMA Models for Non stationary Tool Vibration Signals Representation and Wear Estimation**
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- LVII. **Optimization of Tooth Bending Fatigue Characteristics of Spur Gear Pairs using a Gear Dynamics based Approach**
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- LVIII. **Optimization of Tooth Bending Fatigue Characteristics of Spur Gear Pairs Using a Gear Dynamics-Based Approach**
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- LIX. **Dişlilerde Dinamik İletim Hatasını Azaltmaya Yönelik İdeal Profil Değişiklikleri**
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- LX. **Nonlinear Vibrations of a Beam with a Breathing Edge Crack**
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- LXI. **Output Only Functional Series Time Dependent AutoRegressive Moving Average (FS-TARMA) Modelling of Tool Acceleration Signals for Wear Estimation**
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- LXII. **Nonlinear Vibrations of a Flexible L-shaped Beam Using Differential Quadrature Method**
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- LXIII. **Structural Coupling of Two Nonlinear Structures**

- Tepe Ç., CİĞEROĞLU E.
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- LXIV. **Optimum Profile Modifications for the Minimization of Dynamic Transmission Error**
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- LXV. **Chatter Reduction in Turning by Using Piezoelectric Shunt Circuit**
Yiğit U., CİĞEROĞLU E., BUDAK E.
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- LXVI. **Vibration Fatigue Analysis of a Cantilever Beam Using Different Fatigue Theories**
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- LXVIII. **EFFECTS OF AIRCRAFT AEROELASTIC DEFORMATIONS ON EXTERNAL STORE SEPARATION DYNAMICS**
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- LXX. **A new structural modification method with additional degrees of freedom for dynamic analysis of large systems**
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- LXXVIII. **Wedge Damper Modeling and Forced Response Prediction of Frictionally Constrained Blades**
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Supported Projects

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- Ciğeroğlu E., Project Supported by Other Private Institutions, Turboşaft Motor Geliştirme-Test Altyapısı ve Rotor Dinamigi Analizleri AR-GE Projesi_2. Kısım, 2021 - 2022
- Ciğeroğlu E., Project Supported by Other Private Institutions, Gaz Türbinli Motorlarda Kullanılan Kuru Sürtünmeli Sönümleyicilerin Tasarımı, 2021 - 2022
- Ciğeroğlu E., Özgüven H. N., H2020 Project, EXPERTISE (models, EXperiments and high PERformance computing for Turbine mechanical Integrity and Structural dynamics in Europe), 2017 - 2022
- Ciğeroğlu E., Project Supported by Other Private Institutions, Turboşaft Motor Geliştirme-Test Altyapısı ve Rotor Dinamiği Analizleri AR-GE Projesi, 2020 - 2021
- Ciğeroğlu E., Project Supported by Other Private Institutions, HAREKETLİ GÜNEŞ PANELİ SİSTEMİ TASRIMI, 2020 - 2021
- Ciğeroğlu E., Project Supported by Other Private Institutions, Havacılık Standartlarına Uygun Hava Çevrim Makinesi, 2019 - 2020
- Ciğeroğlu E., Project Supported by Other Private Institutions, 300 TONMETRE KAPASİTELİ KURU HAVUZ İSKELE PORTAL VİNCİ TASARIMI AR-GE PROJESİ, 2019 - 2019
- Tekinalp O., Kurtuluş D. F., Yaman Y., Şahin M., Sezer Uzol N., Ciğeroğlu E., Leblebicioğlu M. K., Ankaralı M. M., Project Supported by Other Private Institutions, Küçük Otonom İnsansız Hava Aracı Geliştirme Projesi (KO-İHA), 2019 - 2019
- Ciğeroğlu E., Kobi, Ahşap Lamine Kompozit Gezi Teknelerinde Dizel Motor Titreşiminin Tekne Gövdesine Etkisinin Azaltılması Ar-Ge Projesi, 2018 - 2019
- Ciğeroğlu E., Project Supported by Defense Industry, Zırhlı Askeri Araçlarda Kullanılan İkiz Kardan Millerinin Süspansiyon Sistemine Etkisi, 2015 - 2019
- Ciğeroğlu E., Project Supported by Other Private Institutions, Traktör Kabin Titreşiminin Azaltılmasına Yönelik Yerli Ve Özgün Bir Titreşim İzolatörünün Geliştirilmesi, 2017 - 2018
- Özgen G. O., Ciğeroğlu E., Technopark, Titreşim Sönümleme Elemanlarının Bulaşık Makinesi Üzerinde Titreşim Ve Akustik Davranışlarının Modellenmesi Ar-Ge Projesi, 2017 - 2018
- Ciğeroğlu E., Özgen G. O., Project Supported by Defense Industry, HASSAS ÖLÇER BİRİMLERİNİN TİTREŞİM VE ŞOK İZOLASYONU PROJESİ, 2016 - 2018
- CİĞEROĞLU E., TUBITAK Project, Paralel Eksenli Dişli Çifti En İyileştirme Projesi, 2014 - 2016
- Ciğeroğlu E., Project Supported by Higher Education Institutions, Değişken Temas Yüzeyleri İçin Dinamik Kuru Sürtünme Modeli Geliştirilmesi, 2009 - 2012

Memberships / Tasks in Scientific Organizations

USETEG, Executive Board Member, 2018 - Continues, Turkey

Scientific Refereeing

INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, Journal Indexed in SCI-E, December 2023
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, Journal Indexed in SCI-E, November 2023
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SCIENCE, SCI Journal, March 2019
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MECHANICAL SYSTEMS AND SIGNAL PROCESSING, Journal Indexed in SCI-E, January 2018

Tasks In Event Organizations

Ciğerođlu E., Özgen G. O., Kahveci H. S., Özşahin O., Karakuş A., Ertekin Bolelli Ş., SAVTEK 2022 10. Savunma Teknolojileri Kongresi, Scientific Congress, Ankara, Turkey, Eylül 2022

Ciğerođlu E., SAVTEK 9. Savunma Teknolojileri Kongresi, Scientific Congress, Ankara, Turkey, Haziran 2018

Metrics

Publication: 118

Citation (WoS): 790

Citation (Scopus): 956

H-Index (WoS): 15

H-Index (Scopus): 17

Awards

Bilen M. E., Özgüven H. N., Ciğerođlu E., TTGV Dr. Akın Çakmakçı Tez Ödülü, Türkiye Teknoloji Geliştirme Vakfı, December 2020

Ciğerođlu E., ODTÜ Yılın Tezi Ödülü Doktora, Mustafa Parlar Vakfı, December 2018

Non Academic Experience

METU

The Ohio State University

METU