

Assoc. Prof. Sertaç Tuhta

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: GFZ-0640-2022

ScopusID: 55620217700

Yoksis Researcher ID: 160486

Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Tarımsal Yapılar Ve Sulama (Dr), Turkey 2004 - 2010

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Turkey 2000 - 2004

Undergraduate, Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1996 - 2000

Dissertations

Doctorate, Yapı parametrelerinin tahribatsız belirlenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Tarımsal Yapılar Ve Sulama (Dr), 2010

Postgraduate, Sismik yalıtım-yapı etkileşiminin hassaslığının değerlendirilmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), 2004

Research Areas

Building Dynamics, Structural Engineering, Performance of Constructed Facilities, Earthquake Engineering

Academic Titles / Tasks

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2012 - Continues

Research Assistant, Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2002 - 2012

Academic and Administrative Experience

Ondokuz Mayıs University, 2016 - 2021

Courses

Kompozit Yapıların Tasarımı, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Teknik Çizim, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Temel Bilgisayar, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Bilimsel Araştırma Yöntemleri, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Yapı Dinamiğinde Sistem Tanımlama, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Köprüler, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013

Bilgisayar Programlama, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013

Bitirme Projesi, Undergraduate, 2020 - 2021, 2019 - 2020

İş Hukuku, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Statik ve Mukavemet, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Bitirme Çalışması, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Bilgisayar Destekli Teknik Çizim, Undergraduate, 2018 - 2019

Mühendislik Matematiği, Postgraduate, 2017 - 2018, 2014 - 2015, 2013 - 2014

Su Yapılarının Depreme Karşı Davranışı, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Beton Teknolojisi, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Yapı Sistemlerinin Çözümünde Paket Program Kullanımı, Undergraduate, 2016 - 2017

Yapı Tasarımında Optimizasyon Yöntemleri, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Alt Yapı Tesisleri, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013

Demiryolları, Undergraduate, 2014 - 2015, 2012 - 2013

Mühendislik Ekonomisi, Undergraduate, 2013 - 2014

Eşdüzey Kavşakların Planlanması, Undergraduate, 2013 - 2014, 2012 - 2013

Mühendislik Mekaniği, Undergraduate, 2013 - 2014

Heyelanlar, Undergraduate, 2012 - 2013

Yol Drenaj Sistemleri, Undergraduate, 2012 - 2013

Advising Theses

Tuhta S., Çelik siloların GFRP ile güçlendirilmesinin sonlu elemanlar metodu kullanılarak incelenmesi, Postgraduate, M.OMAR(Student), 2024

Tuhta S., Betonarme tünel kalıp yapılarında BFRP kullanımının incelenmesi, Postgraduate, A.SEL(Student), 2023

Tuhta S., Betonarme bacaların sıcaklık değişimi etkisinde sonlu elemanlar metodu ile analizi, Postgraduate, S.ELHIDIR(Student), 2023

Tuhta S., Betonarme yapılarında kullanılan sismik yalıtım sistemlerinin karşılaştırmalı olarak incelenmesi, Postgraduate, E.KÖROĞLU(Student), 2023

Tuhta S., BFRP ile güçlendirilmiş betonarme menfezlerin sonlu elemanlar yöntemiyle incelenmesi, Postgraduate, F.BAKKOUR(Student), 2022

Tuhta S., GFRP ile güçlendirilmiş tünellerin sonlu elemanlar metodu ile analizi, Postgraduate, M.ALSHEKH(Student), 2022

Tuhta S., Çelik yapılarda patlamanın statik parametrelere etkisinin sonlu elemanlar metodu ile incelenmesi, Postgraduate, A.SADAK(Student), 2022

Tuhta S., Çelik yapıların dinamik parametrelerine kablo elemanların etkisinin operasyonel modal analiz ile incelenmesi, Doctorate, F.GÜNDAY(Student), 2021

Tuhta S., Çelik köprülerde diyagonal elemanların dinamik parametrelere etkisinin operasyonel modal analiz yöntemi ile belirlenmesi, Doctorate, H.AYDIN(Student), 2021

Tuhta S., GFRP ile güçlendirilmiş endüstriyel betonarme bacaların sonlu elemanlar metodu ile analizi, Postgraduate, A.M. (Student), 2021

Tuhta S., Betonarme yapıların dinamik davranışlarının sistem tanımlama kullanılarak belirlenmesi, Postgraduate, M.ALALOU(Student), 2021

Tuhta S., GFRP ile güçlendirilmiş yığma yapıların sonlu elemanlar metodu ile analizi, Postgraduate, M.ZIADA(Student), 2019

Tuhta S., CFRP ile güçlendirilmiş yığma kubbelerin sonlu elemanlar metodu ile analizi, Postgraduate, N.ÇAĞLA(Student), 2019

Tuhta S., Endüstriyel yapılarda hızlı görsel inceleme, Postgraduate, G.BOZKURT(Student), 2017

Tuhta S., Çelik yapıların çelik çapraz elemanlar ile güçlendirilmesinin yapı dinamik davranışına etkilerinin incelenmesi, Postgraduate, F.GÜNDAY(Student), 2017

Tuhta S., Tünel kalıp yapılarda karbon lifli polimer kompozit kullanımı, Postgraduate, E.HAYATİ(Student), 2017

Tuhta S., Hızlı gözlem teknikleri ile belirlenmiş betonarme yapıların "Riskli Yapıların Tespit Esasları 2013" yönetmeliği ile analizi, Postgraduate, K.YEŞİLKAYA(Student), 2015

Tuhta S., Deprem taban yalıtımı modelleri için sonlu eleman türleri ve uygulama özellikleri, Postgraduate, S.MORADI(Student), 2015

Tuhta S., Hızlı gözlem teknikleriyle yapıların incelenmesi, Postgraduate, A.ŞANLI(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The determination of effect of TiO₂ on dynamic behavior of scaled WPC warehouse by OMA**
Tuhta S.
ADVANCES IN NANO RESEARCH, vol.12, no.1, pp.65-72, 2022 (SCI-Expanded)
- II. **The determination of effect of TiO₂ on dynamic behavior of scaled concrete structure by OMA**
Tuhta S.
ADVANCES IN NANO RESEARCH, vol.11, no.6, pp.641-648, 2021 (SCI-Expanded)
- III. **Analytical and experimental modal analysis of model wind tunnel using microtremor excitation**
Tuhta S.
WIND AND STRUCTURES, vol.32, no.6, pp.563-571, 2021 (SCI-Expanded)
- IV. **DETERMINATION OF THE EFFECT OF TiO₂ ON THE DYNAMIC BEHAVIOR OF SCALED CONCRETE CHIMNEY BY OMA**
Tuhta S., Gunday F.
MATERIALI IN TEHNOLOGIJE, vol.55, no.3, pp.459-466, 2021 (SCI-Expanded)
- V. **INVESTIGATION OF EFFECT OF USING NANO COATING ON WOODEN SHEDS ON DYNAMIC PARAMETERS**
Tuhta S., Gunday F.
WOOD RESEARCH, vol.66, no.6, pp.1006-1014, 2021 (SCI-Expanded)
- VI. **Obtaining Dynamic Parameters by Using Ambient Vibration Recordings on Model of The Steel Arch Bridge**
Kasimzade A. A., Tuhta S., Gunday F., Aydin H.
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.65, no.2, pp.608-618, 2021 (SCI-Expanded)
- VII. **OMA of model chimney using Bench-Scale earthquake simulator**
Tuhta S.
EARTHQUAKES AND STRUCTURES, vol.16, no.3, pp.321-327, 2019 (SCI-Expanded)
- VIII. **GFRP retrofitting effect on the dynamic characteristics of model steel structure**
Tuhta S.
STEEL AND COMPOSITE STRUCTURES, vol.28, no.2, pp.223-231, 2018 (SCI-Expanded)
- IX. **OMA of model steel structure retrofitted with CFRP using earthquake simulator**
Kasimzade A. A., Tuhta S.
EARTHQUAKES AND STRUCTURES, vol.12, no.6, pp.689-697, 2017 (SCI-Expanded)

- X. **Application of OMA on the bench-scale earthquake simulator using micro tremor data**
Kasimzade A. A., Tuhta S.
STRUCTURAL ENGINEERING AND MECHANICS, vol.61, no.2, pp.267-274, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Tunnel Formwork Structure Retrofitted with JFRP by Finite Element Method**
SEL A., GÜNDAY F., TUHTA S.
JournalNX-A Multidisciplinary Peer Reviewed Journal, 2023 (Peer-Reviewed Journal)
- II. **Analysis of Reinforced Concrete Chimneys under the Effect of Temperature Change with Finite Element Method**
ELHIDIR S., TUHTA S., GÜNDAY F.
JournalNX-A Multidisciplinary Peer Reviewed Journal, 2022 (Peer-Reviewed Journal)
- III. **Determination of Modal Parameters of Reinforced Concrete Box Culvert Retrofitted with GFRP Using Finite Element Method**
BAKKOUR F., TUHTA S., GÜNDAY F.
International Journal of Engineering and Technology, 2022 (Peer-Reviewed Journal)
- IV. **Determination of Modal Parameters of Reinforced Concrete Tunnel Retrofitted with CFRP Using Finite Element Method**
HAMMOUD M. A., TUHTA S., GÜNDAY F.
International Journal of Engineering and Technology, 2022 (Peer-Reviewed Journal)
- V. **Performance of elastomeric seismic isolators under long-period earthquakes**
Abrar O., Tuhta S.
MAGAZINE OF CIVIL ENGINEERING, vol.110, no.2, 2022 (ESCI)
- VI. **Investigation of the Tuned Liquid Wall Damper Contribution to the Dynamic Parameters of the Prestressed Reinforced Concrete Structure Using FEM**
TUHTA S.
International Journal of Innovations in Engineering Research and Technology, 2021 (Peer-Reviewed Journal)
- VII. **Investigation of Steel Slit Panel Effect on Modal Parameters of Reinforced Concrete Structure by Finite Element Method**
TUHTA S.
International Journal of Innovations in Engineering Research and Technology, 2021 (Peer-Reviewed Journal)
- VIII. **The Effect of TMD on the Periods and Mode Shapes of the Reinforced Concrete Building by Finite Element Analysis**
TUHTA S., GÜNDAY F., KÖROĞLU E.
JournalNX-A Multidisciplinary Peer Reviewed Journal, vol.7, no.12, pp.5-13, 2021 (Peer-Reviewed Journal)
- IX. **The Effect of GFRP Steel Silo on Modal Parameters using Finite Element Method**
TUHTA S., GÜNDAY F., WARAYTH M. O.
International Journal of Innovations in Engineering Research and Technology, 2021 (Peer-Reviewed Journal)
- X. **Nonlinear System Identification of WPC Terrace Wall with Hammerstein-Wiener Model Using Ambient Vibration**
TUHTA S.
JournalNX-A Multidisciplinary Peer Reviewed Journal, 2021 (Peer-Reviewed Journal)
- XI. **Analytical and Experimental Investigation on the Modal Properties of Scaled Concrete Retaining Wall**
TUHTA S.
JournalNX-A Multidisciplinary Peer Reviewed Journal, 2021 (Peer-Reviewed Journal)
- XII. **Artificial Neural Network Based System Identification Usage for Steel Sheds**
TUHTA S., GÜNDAY F.
International Journal of Innovations in Engineering Research and Technology, 2020 (Peer-Reviewed Journal)
- XIII. **Dynamic Parameters Determination of Concrete Terrace Wall with System Identification Using ANN**

- TUHTA S., GÜNDAY F.
JournalNX-A Multidisciplinary Peer Reviewed Journal, 2020 (Peer-Reviewed Journal)
- XIV. **Subspace Identification Using N4SID Methods Applied to Model Concrete Chimney**
TUHTA S., GÜNDAY F., AYDIN H.
JournalNX-A Multidisciplinary Peer Reviewed Journal, 2020 (Peer-Reviewed Journal)
- XV. **Update of Structural Parameters on the Bench-Scale Aluminum Bridge Model Using Ambient Vibration**
TUHTA S., GÜNDAY F., AYDIN H.
International Journal of Latest Technology in Engineering, Management Applied Science, 2020 (Peer-Reviewed Journal)
- XVI. **Updating for Structural Parameter Identification of the Model Steel Bridge Using OMA**
TUHTA S., AYDIN H., GÜNDAY F.
International Journal of Latest Technology in Engineering, Management Applied Science, 2020 (Peer-Reviewed Journal)
- XVII. **The Effect of CFRP Reinforced Concrete Chimney on Modal Parameters Using Finite Element Method**
TUHTA S., GÜNDAY F., ALİHASSAN A. M.
International Journal of Innovations in Engineering Research and Technology, 2020 (Peer-Reviewed Journal)
- XVIII. **Analytical Modal Analysis of RC Building Retrofitted with CFRP using Finite Element Method**
TUHTA S., GÜNDAY F.
International Journal of Latest Technology in Engineering, Management Applied Science, 2020 (Peer-Reviewed Journal)
- XIX. **Study for Artificial Neural Network of Aluminum Benchmark Bridge**
TUHTA S., GÜNDAY F.
International Journal of Research and Innovation in Applied Science, 2020 (Peer-Reviewed Journal)
- XX. **System Identification of Model Steel Bridge with Fuzzy Logic**
TUHTA S., GÜNDAY F., AYDIN H.
International Journal of Research and Innovation in Applied Science, 2020 (Peer-Reviewed Journal)
- XXI. **System Identification of Model Steel Bridge with Genetic Algorithms**
TUHTA S., GÜNDAY F., AYDIN H.
International Journal of Research and Innovation in Applied Science, 2020 (Peer-Reviewed Journal)
- XXII. **System Identification of Model Steel Chimney with Fuzzy Logic**
TUHTA S., GÜNDAY F., ALİHASSAN A. M.
International Journal of Research and Innovation in Applied Science, 2020 (Peer-Reviewed Journal)
- XXIII. **Modal Parameters Determination of Steel Benchmark Warehouse by System Identification Using ANN**
TUHTA S., GÜNDAY F.
International Journal of Research and Innovation in Applied Science, 2019 (Peer-Reviewed Journal)
- XXIV. **System Identification of RC Building Using N4SID**
TUHTA S., GÜNDAY F.
International Journal of Research and Scientific Innovation, 2019 (Peer-Reviewed Journal)
- XXV. **Determination of System Parameters on Model Lighting Pole Using ANN by Ambient Vibration**
TUHTA S., GÜNDAY F., ALALOU M.
International Journal of Research and Scientific Innovation, 2019 (Peer-Reviewed Journal)
- XXVI. **Application of OMA on the Bench-Scale Aluminum Bridge Using Micro Tremor Data**
TUHTA S., GÜNDAY F.
International Journal of Advance Research and Innovative Ideas in Education, 2019 (Peer-Reviewed Journal)
- XXVII. **MIMO System Identification of Industrial Building Using N4SID with Ambient Vibration**
TUHTA S., GÜNDAY F.
International Journal of Innovations in Engineering Research and Technology, 2019 (Peer-Reviewed Journal)
- XXVIII. **Multi Input-Multi Output System Identification of Concrete Pavement Using N4SID**
TUHTA S., GÜNDAY F.
International Journal of Interdisciplinary Innovative Research Development, vol.4, no.1, 2019 (Peer-Reviewed

- Journal)
- XXIX. **MIMO System Identification of Machine Foundation Using N4SID**
TUHTA S., GÜNDAY F., AYDIN H., ALALOU M.
International Journal of Interdisciplinary Innovative Research Development, vol.4, no.1, 2019 (Peer-Reviewed Journal)
- XXX. **Investigation of CFRP Retrofitting Effect on Masonry Dome on Bending Moment Using Finite Element Method**
TUHTA S., GÜNDAY F., PEHLİVAN N. Ç.
International Journal of Innovations in Engineering Research and Technology, vol.6, no.6, 2019 (Peer-Reviewed Journal)
- XXXI. **Experimental Study on Behavior of Bench-Scale Steel Structure Retrofitted with CFRP Composites under Ambient Vibration**
TUHTA S., ABRAR O., GÜNDAY F.
European Journal of Engineering Research and Science, 2019 (Peer-Reviewed Journal)
- XXXII. **Analysis of Tunnel Form Building Retrofitted with CFRP using Finite Element Method**
ZİADA M., TUHTA S., GENÇBAY E. H., GÜNDAY F., TAMMAM Y.
International Journal of Trend in Scientific Research and Development, vol.3, no.2, pp.822-826, 2019 (Peer-Reviewed Journal)
- XXXIII. **A Comparative Study on Effectiveness of Using Horasan Mortar as a Pure Friction Sliding Interface Material**
KASIMZADE A., DUSHIMIMANA A., TUHTA S., ATMACA G., GÜNDAY F., PFIDZE K. S., ABRAR O.
European Journal of Engineering Research and Science, 2019 (Peer-Reviewed Journal)
- XXXIV. **Dynamic Analysis of Model Steel Structures Retrofitted with GFRP Composites under Microtremor Vibration**
TUHTA S., GÜNDAY F., AYDIN H.
International Journal of Trend in Scientific Research and Development, vol.3, no.2, 2019 (Peer-Reviewed Journal)
- XXXV. **Numerical Algorithms N4SID for System Identification of Buildings**
TUHTA S., ALAMERI I., GÜNDAY F.
International Journal of Advanced Research in Engineering Technology Science, vol.1, no.6, 2019 (Peer-Reviewed Journal)
- XXXVI. **Experimental Study on Effect of Seismic Damper to Reduce the Dynamic Response of Bench-Scale Steel Structure Model**
TUHTA S., GÜNDAY F., ABRAR O.
International Journal of Advance Research and Innovative Ideas in Education, 2019 (Peer-Reviewed Journal)
- XXXVII. **OMA of GFRP Retrofitted Model Concrete Structure Using Ambient Vibration**
TUHTA S.
International Journal of Trend in Scientific Research and Development, vol.3, no.1, 2018 (Peer-Reviewed Journal)
- XXXVIII. **Novel Approach on Performance-Based Aseismic Design Based on FEMA Requirements**
KASIMZADE A., TUHTA S., ATMACA G., İBRAHİM A., OBAİDULLAH A.
International Journal of Trend in Scientific Research and Development, vol.3, no.1, pp.812-816, 2018 (Peer-Reviewed Journal)
- XXXIX. **Natural Seismic Protection Properties of Historical "Walled Obelisk" Structure in Istanbul: Modeling-Numerical Approach**
TUHTA S.
Eskişehir Technical University Journal of Science and Technology A- Applied Sciences and Engineering, vol.19, no.4, pp.805-814, 2018 (Peer-Reviewed Journal)
- XL. **Investigation of Seismic Base Isolated Structures for Long Period Ground Motions**
KASIMZADE A., ABRAR O., TUHTA S., ATMACA G.
International Journal of Engineering and Applied Sciences, vol.5, no.6, pp.15-20, 2018 (Peer-Reviewed Journal)
- XLI. **Analysis of Masonry Structures Retrofitted with Glass Fiber Reinforced Polymer Using Finite Element Method**

Ziada M., TUHTA S., Tammam Y.

International Journal of Advance Engineering and Research Development, vol.4, no.5, pp.1174-1183, 2018 (Peer-Reviewed Journal)

- XLII. **Effect of Carbon Fiber Reinforced Polymer (CFRP) Composites Applied to Walls and Slabs of Masonry Building**
Dushimimana A, Ziada M., TUHTA S.
International Journal of Advance Engineering and Research Development, vol.4, no.5, pp.2434-2442, 2018 (Peer-Reviewed Journal)
- XLIII. **Optimal Determination of Structural Dynamical Parameters Using Ambient Vibration**
TUHTA S.
KSÜ Mühendislik Bilimleri Dergisi, vol.21, no.1, pp.55-65, 2018 (Peer-Reviewed Journal)
- XLIV. **Stochastic Parametrical System Identification Approach for Validation of Finite Elements Models**
KASIMZADE A., TUHTA S.
TWMS JOURNAL OF PURE AND APPLIED MATHEMATICS, 2012 (Peer-Reviewed Journal)
- XLV. **Analytical Numerical and Experimental Examination of Reinforced Composites Beams Covered with Carbon Fiber Reinforced Plastic**
KASIMZADE A., TUHTA S.
Journal of Theoretical and Applied Mechanics (Bulgaria), 2012 (Peer-Reviewed Journal)
- XLVI. **Novel Approach for Monitoring, Identification, Modal Updating Hierarchy in Experimental and Finite Element Vibration Analysis Part I: Theoretical Discussions**
KASIMZADE A., TUHTA S.
Mechanics Machine Building, 2010 (Peer-Reviewed Journal)
- XLVII. **Novel Approach for Monitoring Identification Modal Updating Hierarchy in Experimental and Finite Element Vibration Analysis Part II Numerical Investigations**
KASIMZADE A., TUHTA S.
Mechanics Machine Building, 2010 (Peer-Reviewed Journal)
- XLVIII. **Performance of Reinforced Concrete Columns Confined by Composite Wraps**
KASIMZADE A., TUHTA S.
AAACEU, Scientific Works, 2005 (Peer-Reviewed Journal)
- XLIX. **Finite Element, Analytical, Experimental Investigation of Reinforced Concrete Beams Strengthened with CFRP and Related Structure Analysis Problem's Solutions**
KASIMZADE A., TUHTA S.
AAACEU, Scientific Research, 2005 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Effect of Retrofitting with JFRP on Dynamic Parameters for Mild Steel Culvert**
Tuhta S.
in: Applications of Fiber Reinforced Polymer Composites in Civil Engineering Structures, Tuhta S., Günday F., Editor, Nobel Yayinevi, Ankara, pp.1-14, 2023
- II. **Seismic Response Analysis of Masonry Chimney Strengthened by CFRP**
Tuhta S.
in: Applications of Fiber Reinforced Polymer Composites in Civil Engineering Structures, Tuhta S., Günday F., Editor, Nobel Yayinevi, Ankara, pp.43-56, 2023
- III. **Investigation of Wind Pressure Effect on Modal Parameters of GFRP Water Tank with OMA**
TUHTA S.
in: Analytical and Operational Modal Analysis Applications in Composite Structures, Tuhta S., Editor, Nobel, Ankara, pp.1-20, 2022
- IV. **Determination of Wind Speed Effect on Dynamic Parameters of Full-Scale Lighting Pole by OMA**
TUHTA S.

in: Analytical and Operational Modal Analysis Applications in Composite Structures, Tuhta S., Editor, Nobel, Ankara, pp.49-67, 2022

V. New Structural Seismic Isolation System

Kasımzade A. A., Tuhta S., Atmaca G.

in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering, Azer A. Kasımzade, Erdal Şafak, Carlos E. Ventura, Farzad Naeim, Yoichi Mukai, Editor, Springer Nature, New York, pp.1-364, 2018

VI. Horasan Mortar Bearings in Base Isolation with Centuries Experiences

Kasımzade A. A., Tuhta S., Atmaca G.

in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering, Azer A. Kasımzade, Erdal Şafak, Carlos E. Ventura, Farzad Naeim, Yoichi Mukai, Editor, Springer Nature, New York, pp.1-364, 2018

VII. Optimal Estimation Example the Dynamic Parameters from Ambient Vibration for Modal Identification

Kasımzade A. A., Hacıyev M., Tuhta S., Atmaca G.

in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering, Azer A. Kasımzade, Erdal Şafak, Carlos E. Ventura, Farzad Naeim, Yoichi Mukai, Editor, Springer Nature, New York, pp.1-364, 2018

VIII. Analytical and Experimental Modal Analysis of a Model Cold Formed Steel (CFS) Structures Using Micro...

Kasımzade A. A., Tuhta S., Atmaca G., Özdemir S.

in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering, Azer A. Kasımzade, Erdal Şafak, Carlos E. Ventura, Farzad Naeim, Yoichi Mukai, Editor, Springer Nature, New York, pp.1-364, 2018

IX. Evaluation of Historical Merzifon Dönertaş Mosque with a Single Dome in Terms of Its Structure

Şeker B. Ş., Tuhta S., Koç V.

in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering, Azer A. Kasımzade, Erdal Şafak, Carlos E. Ventura, Farzad Naeim, Yoichi Mukai, Editor, Springer Nature, New York, pp.1-364, 2018

Refereed Congress / Symposium Publications in Proceedings

I. A Study on Geometric Phase Change States of Steel Retractable Truss Structure

TUHTA S.

5th International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 25 - 26 August 2024

II. Dynamic Responses of CFS Foldable Water Conduit Connected by Compliant Joints

TUHTA S.

5th International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 25 - 26 August 2024

III. 3D Analysis for Relationship between Area and Geometry of Spatial Pedestrian Tunnel

TUHTA S.

2nd International Conference on Scientific and Innovative Studies, Konya, Turkey, 18 - 19 April 2024

IV. State Analysis of Steel Deployable Frame Structure Subjected to Static Loads

TUHTA S.

2nd International Conference on Scientific and Innovative Studies, Konya, Turkey, 18 - 19 April 2024

V. Numerical Investigation for Seismic Strengthening of Quay Wall with HFRP Sheets

TUHTA S.

4th International Conference on Innovative Academic Studies, Konya, Turkey, 12 - 13 March 2024

VI. A Study on Dynamic Behavior of Modular Water Tank Retrofitted Using KFRP Wraps

TUHTA S.

4th International Conference on Innovative Academic Studies, Konya, Turkey, 12 - 13 March 2024

- VII. **Structural Performance Evaluation of RC Retaining Wall Strengthened with Counterfort**
TUHTA S., GÜNDAY F.
2nd International Conference on Contemporary Academic Research, Konya, Turkey, 4 - 06 November 2023
- VIII. **Structural Retrofitting of Existing Stone Siphon by Internally Concrete Lining**
TUHTA S.
3rd International Conference on Innovative Academic Studies, Konya, Turkey, 26 - 28 September 2023
- IX. **A Review on Retrofitting of Masonry Reservoir under Static Loads**
TUHTA S.
3rd International Conference on Innovative Academic Studies, Konya, Turkey, 26 - 28 September 2023
- X. **Seismic Response Analysis of Stone Cistern Strengthening by HPC**
TUHTA S.
4. Başkent International Conference on Multidisciplinary Studies, Ankara, Turkey, 4 - 06 August 2023
- XI. **Assessing Impact of Retrofitting on Structural Behaviour in Concrete Pavement Using FEM**
TUHTA S.
4. Başkent International Conference on Multidisciplinary Studies, Ankara, Turkey, 4 - 06 August 2023
- XII. **Simulation of Shotcrete in RC Tunnel Using Finite Element Method**
TUHTA S.
5th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 July 2023
- XIII. **Analytical Study on Retrofitting Concrete Retaining Wall with Concrete Lining**
TUHTA S.
5th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 - 12 July 2023
- XIV. **Investigation of Shear Wall Effect on Dynamic Parameters of Reinforced Concrete Building**
TUHTA S.
2nd International Symposium on Characterization, Afyonkarahisar, Turkey, 22 - 25 September 2022
- XV. **The Effect of Stud Walls on Dynamic Characteristics of Steel Building**
TUHTA S.
2nd International Symposium on Characterization, Afyonkarahisar, Turkey, 22 - 25 September 2022
- XVI. **Seismic Performance of Cold-Formed Steel Building Retrofitted with Braces**
TUHTA S., GÜNDAY F.
1st International Conference on Innovative Academic Studies, Konya, Turkey, 10 - 13 September 2022
- XVII. **Effect of Wing Wall on Dynamic Parameters of Reinforced Concrete Chimney**
TUHTA S.
1st International Conference on Scientific Researches, Tokat, Turkey, 20 - 21 August 2022
- XVIII. **Determination of Jacketing of Beams on Dynamic Parameters of RC Structure**
TUHTA S.
1st International Conference on Scientific Researches, Tokat, Turkey, 20 - 21 August 2022
- XIX. **Investigation of Buttress Wall Effect in Concrete Chimney by Finite Element Method**
TUHTA S.
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022
- XX. **Investigation of Dynamic Parameters of Reinforced Concrete Industrial Structure Using Tendon by Finite Element Method**
TUHTA S.
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022
- XXI. **Investigation of TMD Effect on Dynamic Performance of Tunnel Form Building by Finite Element Method**
TUHTA S., GÜNDAY F.
14th International Conference of Strategic Research on Scientific Studies and Education, Antalya, Turkey, 16 December 2021
- XXII. **Investigation of TLD Effect on Dynamic Parameters of Prestressed Concrete Structure with Finite Element Method**
TUHTA S., GÜNDAY F.

14th International Conference of Strategic Research on Scientific Studies and Education, Antalya, Turkey, 16 December 2021

- XXIII. **Using Machine Learning on System Identification of the Circular Culvert Model**
TUHTA S.
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 October 2021
- XXIV. **Using Deep Learning on System Identification of the Retaining Wall Model**
TUHTA S.
6th International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 20 October 2021
- XXV. **System Identification of the Bunker Wall Model Using Automated Machine Learning**
TUHTA S.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 01 November 2021
- XXVI. **System Identification of the Water Channel Model Using Automated Artificial Intelligence**
TUHTA S.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 01 November 2021
- XXVII. **System Identification Innovations for Development of the Finite Element Calibration**
KASIMZADE A., TUHTA S., GÜNDAY F.
International Congress on the Phenomenological Aspects of Civil Engineering, Erzurum, Turkey, 20 June 2021
- XXVIII. **The Effect of CFRP Reinforced Square Stone Chimney on Modal Parameters Using Finite Element Method**
TUHTA S., GÜNDAY F., ALİHASSAN A. M.
2nd International Conference on Science Technology and Educational Practices, Samsun, Turkey, 15 May 2021, pp.104-110
- XXIX. **Examination of Nonlinear System Identification Parameters of Model Smokestack Using Hammerstein-Wiener Model**
TUHTA S., GÜNDAY F., AYDIN H.
International Virtual Conference on Innovative Thoughts, Research Ideas and Inventions in Sciences, New York, United States Of America, 20 January 2021
- XXX. **Modal Analysis of Model Steel Bridge by Finite Element Method**
TUHTA S., GÜNDAY F., AYDIN H., ALALOU M.
2nd International Eurasian Conference on Science, Engineering and Technology, Gaziantep, Turkey, 7 - 09 October 2020, pp.713-719
- XXXI. **Example for Nonlinear System Identification of Model Masonry Retaining Wall with Hammerstein-Wiener Models**
TUHTA S., GÜNDAY F., AYDIN H.
A Multidisciplinary International Scientific Conference on Science, Technology, Education and Humanities, Ukraine, 30 November 2020, pp.105-113
- XXXII. **Modal Analysis of Steel Test Structure Reinforced with Cable Elements by Finite Element Method**
TUHTA S., GÜNDAY F., AYDIN H., ALALOU M.
2nd International Eurasian Conference on Science, Engineering and Technology, Gaziantep, Turkey, 7 - 09 October 2020, pp.720-726
- XXXIII. **Nonlinear System Identification of Model Concrete Chimney Using Hammerstein-Wiener Model**
TUHTA S., GÜNDAY F., AYDIN H.
Global Congress of Contemporary Study, A Multidisciplinary International Scientific Conference, Indonesia, 07 November 2020, pp.12-19
- XXXIV. **Extraction of Modal Parameters on Steel Structure Using EFDD**
KASIMZADE A., TUHTA S., GÜNDAY F., AYDIN H.
2nd International Conference on Technology and Science, Burdur, Turkey, 14 - 16 November 2019
- XXXV. **Investigation of Modal Parameters on Steel Model Bridge Using EFDD Method**
KASIMZADE A., TUHTA S., AYDIN H., GÜNDAY F.
2nd International Conference on Technology and Science, Burdur, Turkey, 14 - 16 November 2019
- XXXVI. **Investigation of Modal Parameters on Steel Structure Using FDD from Ambient Vibration**

- KASIMZADE A., TUHTA S., GÜNDAY F., AYDIN H.
8th International Steel Structures Symposium, Konya, Turkey, 24 - 26 October 2019
- XXXVII. **Determination of Modal Parameters on Steel Model Bridge Using Operational Modal Analysis**
KASIMZADE A., TUHTA S., AYDIN H., GÜNDAY F.
8th International Steel Structures Symposium, Konya, Turkey, 24 - 26 October 2019
- XXXVIII. **Numerical Algorithms for System Identification of Benchmark Steel Bridge**
TUHTA S., GÜNDAY F., AYDIN H.
iSTE-CE'xx2019- International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Hatay, Turkey, 13 - 15 June 2019, pp.1223-1237
- XXXIX. **Numerical Algorithms for System Identification of Benchmark Steel Structure**
TUHTA S., GÜNDAY F., AYDIN H.
iSTE-CE'xx2019- International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Hatay, Turkey, 13 - 15 June 2019, pp.1238-1252
- XL. **Investigation of CFRP Retrofitting Effect on Masonry Dome on Stress Using Finite Element Method**
TUHTA S., GÜNDAY F., AYDIN H., PEHLİVAN N. Ç.
International Disaster and Resilience Congress (idRc 2019), Eskişehir, Turkey, 26 - 28 June 2019
- XLI. **Investigation of CFRP Retrofitting Effect on Masonry Dome on Period and Frequency Using Finite Element Method**
TUHTA S., GÜNDAY F., AYDIN H., PEHLİVAN N. Ç.
International Disaster and Resilience Congress (idRc 2019), Eskişehir, Turkey, 26 - 28 June 2019
- XLII. **Operational Modal Analysis of Aluminum Model Structures Using Earthquake Simulator**
DUSHİMİMANA A., GÜNDAY F., TUHTA S.
International Conference on Innovative Engineering Applications (CIEA' 2018), Sivas, Turkey, 20 September 2018, pp.677-685
- XLIII. **Analytical and Experimental Modal Analysis of a Model Steel Structure Using Blast Excitation**
GÜNDAY F., DUSHİMİMANA A., TUHTA S.
International Conference on Innovative Engineering Applications (CIEA' 2018), Sivas, Turkey, 20 September 2018, pp.686-694
- XLIV. **Spherical Foundation Structural Seismic Isolation System Development of the New Type Earthquake Resistant Structures**
KASIMZADE A., TACHIBANA E., MUKAI Y., TUHTA S., Atmaca G.
Theoretical and Applied Mechanics (TAM '15), 27 June 2016 - 29 June 2015
- XLV. **Spherical Foundation Structural Seismic Isolation System on Base Ancient Architectures Inherence**
KASIMZADE A., EIZABURO T., YOICHI M., TUHTA S., GENÇAY A.
International Symposium on Disaster Simulation, 13 - 14 June 2015
- XLVI. **Hızlı Gözlem Teknikleri ile Belirlenmiş Yiğma Yapıların Riskli Yapıların Tespit Esasları 2013 ile Analizi**
EREN B., KAZIM Y., TUHTA S.
5. Uluslararası Deprem Sempozyumu Kocaeli 2015, 10 - 12 June 2015
- XLVII. **Hızlı Gözlem Teknikleri ile Belirlenmiş Betonarme Yapıların Riskli Yapıların Tespit Esasları 2013 ile Analiz**
KAZIM Y., EREN B., TUHTA S.
5. Uluslararası Deprem Sempozyumu Kocaeli 2015, 10 - 12 June 2015
- XLVIII. **Modeling, Computing and Application Particularities of No Restoring Mechanism Aseismic Control Device**
Kasimzade A. A., Tuhta S., Atmaca G.
International Conference on Applied Computing, Computer Science, Computer Engineering (ICACC), CM, 28 - 29 December 2013, vol.7, pp.77-83
- XLIX. **The Eigensensitivity-Based Finite Element Model Updating for Structural Parameter Identification**
KASIMZADE A., TUHTA S.
IV International Conference "Problems of Cybernetics and Informatics" (PCI 2012), 12 - 14 September 2012

- L. **Atakum İlçesinin Sıvılaşma Potansiyelinin İncelenmesi**
KILIÇOĞLU C., TUHTA S., KOÇ V.
Samsun İlinin Deprem Riski ve Alınabilecek Önlemler Sempozyumu, Turkey, 11 - 12 May 2012
- LI. **Depremler Sonrası Zemin Katlarda Görülen Çökmelerin İncelenmesi**
KOÇ V., TUHTA S.
Samsun İlinin Deprem Riski ve Alınabilecek Önlemler Sempozyumu, Turkey, 11 - 12 May 2012
- LII. **Asma Katlı, Kat Çıkmalı ve Asmolen Döşemeli Yapıların Depremsel Davranışı**
KOÇ V., TUHTA S.
Samsun İlinin Deprem Riski ve Alınabilecek Önlemler Sempozyumu, Turkey, 11 - 12 May 2012
- LIII. **Investigation of Liquefaction Potential of Atakum**
KILIÇOĞLU C., AKINCI H., DOĞAN S., TUHTA S.
65th Geological Congress of Turkey, Turkey, 2 - 06 April 2012
- LIV. **Optimal Estimation the Building System Characteristics for Modal Identification**
KASIMZADE A., TUHTA S.
3rd International Operational Modal Analysis Conference (IOMAC 2009), 4 - 06 May 2009
- LV. **A Novel Approach for Modal Identification from Ambient Vibration**
KASIMZADE A., TUHTA S.
Seismic Engineering International Conference (MERCEA'08), 24 - 27 June 2008
- LVI. **Ambient Vibration Analysis of Steel Structure**
KASIMZADE A., TUHTA S.
Experimental Vibration Analysis for Civil Engineering Structures (EVACES'07), 24 - 26 October 2007
- LVII. **Particularities of Monitoring, Identification, Model Updating Hierarchy in Experimental Vibration Analysis of Structures**
KASIMZADE A., TUHTA S.
Experimental Vibration Analysis for Civil Engineering Structures (EVACES'xx07), 24 - 26 October 2007
- LVIII. **Finite Element Modal Updating of Reinforced Concrete Building use of Ambient Vibration Measurements**
KASIMZADE A., TUHTA S., USLU A.
First European Conference on Earthquake Engineering and Seismology (1st ECEES), 3 - 08 September 2006
- LIX. **Temel Yalıtımlı Binaların Stokastik Analizi**
KASIMZADE A., TUHTA S.
Antalya Yöresinin İnşaat Mühendisliği Sorunları Kongresi, Turkey, 22 - 24 September 2005
- LX. **Yapıların Depreme Dayanıklılığının Değerlendirilmesi için Mobil Denetim Sistemi**
KASIMZADE A., TUHTA S.
Antalya Yöresinin İnşaat Mühendisliği Sorunları Kongresi, Turkey, 22 - 24 September 2005
- LXI. **Ambient Vibration Test on Detection of Dynamic Properties of Reinforced Concrete Building**
KASIMZADE A., TUHTA S.
1st International Operational Modal Analysis Conference (IOMAC 2005), 26 - 27 April 2005
- LXII. **Binaların Depreme Dayanıklılığının Değerlendirilmesi için Mobil Denetim Sistemi**
KASIMZADE A., TUHTA S.
Deprem Sempozyumu Kocaeli 2005, Turkey, 23 - 25 March 2005
- LXIII. **Temeli İzolatörlü Binaların Deprem Etkisine Tepkisinin Hassaslığının ve Emniyetinin Değerlendirilmesi**
KASIMZADE A., TUHTA S.
Deprem Sempozyumu Kocaeli 2005, Turkey, 23 - 25 March 2005
- LXIV. **Estimation of Sensitivity and Reliability Base Isolation Buildings under Earthquake Action**
Kasımzade A., Tuhta S.
International Symposium on Network and Center-Based Research for Smart Structures Technologies and Earthquake Engineering, Osaka, Japan, 6 - 09 July 2004
- LXV. **Binaların Depreme Dayanıklılığının Değerlendirilmesi için Mobil Denetim (Kontrol) Sistemi**
KASIMZADE A., TUHTA S.

Ar-Ge proje Pazarı, Turkey, 28 - 29 March 2003

Supported Projects

Birinci F., KOÇ V., Tuhta S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, "Malzeme ve Yapı Merkez Laboratuvarı" MAYMER, 2011 - 2015

Tuhta S., "Binaların Deprem Özelliklerinin Tahribatsız Tayini Yönteminin Tasarlanması" (MF-046), 2003 - 2006

Patent

Tuhta S., GFRP Auxetic Damping Device, Industrial Design, CHAPTER E Constructed Constructions (Construction), The Invention Registration Number: 2023/002523 , Standard Registration, 2023

Awards

, Tuhta S., Bölüm İkinciliği Ödülü, Ondokuz Mayıs Üniversitesi, June 2000