Lect. PhD Erol Demirkan

Personal Information

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International Researcher IDs ScholarID: Vkhh1GAAAAAJ ORCID: 0000-0002-4338-8549 Publons / Web Of Science ResearcherID: AAW-9155-2020 ScopusID: 57193340917 Yoksis Researcher ID: 214923

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Civil Engineering, Turkey 2014 - 2020 Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Civil Engineering, Turkey 2009 - 2012 Undergraduate, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Civil Engineering, Turkey 2006 -2009

Undergraduate, Balikesir University, Faculty Of Engineering-Architecture, Department Of Civil Engineering, Turkey 2005 - 2006

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, INVESTIGATION OF BUCKLING ANALYSIS BASED ON NONLOCAL TIMOSHENKO RODS BY THE METHOD OF INITIAL VALUES, Istanbul Technical University, Fen Bilimleri Enstitüsü, Civil Engineering, 2020 Postgraduate, The Vibration of The Structures with Variable Stiffness, Istanbul Technical University, Fen Bilimleri Enstitüsü, Civil Engineering, 2012

Research Areas

Mechanics of Solid Bodies, Civil Engineering, Mechanical, Structural Mechanics, Building Dynamics, Building Stability, Structure, Buildings (industrial, commercial and public), Structural Engineering, Steel Structures, Timber Structures, Earthquake Engineering, Concrete Structures, Engineering and Technology

Academic Titles / Tasks

Lecturer, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2021 - Continues Research Assistant, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2015 - 2020 Research Assistant, Sinop University, Faculty Of Engineering-Architecture, Department Of Civil Engineering, 2014 - 2015

Academic and Administrative Experience

Member of Departmental Publicity Committee, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2021 -Continues

Member of Faculty and Department Scholarship Committee, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2015 - 2017

Courses

Statics, Undergraduate, 2022 - 2023 Engineering Mechanics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022 Dynamics, Undergraduate, 2022 - 2023, 2021 - 2022 Strength of Materials-I, Undergraduate, 2023 - 2024, 2022 - 2023 Mathematics in Civil Engineer, Undergraduate, 2023 - 2024, 2022 - 2023 Strength of Materials-I, Undergraduate, 2022 - 2023, 2021 - 2022 Strength of Materials-II, Undergraduate, 2023 - 2024 Strength of Materials-II, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015 Statics, Undergraduate, 2022 - 2023 Dynamics, Undergraduate, 2022 - 2023, 2016 - 2017, 2014 - 2015 Strength of Materials-I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016 Statics, Undergraduate, 2021 - 2022 Statics, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016 Statics and Strength of Materials, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Artificial Neural Network (ANN) Validation Research: Free Vibration Analysis of Functionally Graded Beam via Higher-Order Shear Deformation Theory and Artificial Neural Network Method Çelik M., Gündoğdu E., Özdilek E. E., Demirkan E., Artan R. APPLIED SCIENCES, vol.14, no.1, pp.1-15, 2023 (SCI-Expanded)
- II. Slope Deflection Method in Nonlocal Axially Functionally Graded Tapered Beams Demirkan E., Çelik M., Artan R. APPLIED SCIENCES, vol.13, no.8, pp.1-21, 2023 (SCI-Expanded)
- III. Buckling Analysis of Nanobeams Based on Nonlocal Timoshenko Beam Model by the Method of Initial Values
 Demirkan E., Artan R.
 INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.19, no.4, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. YALITIMLI CAM ÜNİTELERİNDE YAYILI YÜKLEME ALTINDA PLAKALAR ARASINDAKİ YÜK PAYLAŞIMININ SONLU ELEMANLAR YÖNTEMİ İLE ANALİZİ Yılmaz M. Kömüncü S. Dominkon F. Colik M.

Yılmaz M., Kömürcü S., Demirkan E., Çelik M. 21. ULUSAL MEKANİK KONGRESİ, Niğde, Turkey, 2 - 06 September 2019

- II. Geometrical Nonlinear Interaction Model of Thin Insulating Glass Units
 Yılmaz M., Kömürcü S., Demirkan E.
 13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İzmir, Turkey, 12 14 September 2018
 III. Numerical Large Deflection Analysis of Annular Plates
- Numerical Large Deflection Analysis of Annular Plates
 Demirkan E., Kömürcü S., Yılmaz M.
 13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İzmir, Turkey, 12 14 September 2018
- IV. Vibration of structures with variable stiffness
 Demirkan E., Kadioglu N.
 6th International Conference on Structural Engineering, Mechanics and Computation, SEMC 2016, Cape-Town,
 South Africa, 5 07 September 2016, no.34520, pp.99-102

Memberships / Tasks in Scientific Organizations

UCTEA - Chamber of Civil Engineers, Member, 2009 - Continues

Metrics

Publication: 7 Citation (WoS): 4 Citation (Scopus): 4 H-Index (WoS): 1 H-Index (Scopus): 1

Awards

Demirkan E., Graduated with 2nd Grade Degree, Istanbul Üniversitesi, July 2009 Demirkan E., Undergraduate Transfer Admission (Civil Engineering), İstanbul Üniversitesi, September 2006

Non Academic Experience

Other, Yapı Teknik Proje Müşavirlik ve Mühendislik Yapı Teknik Proje Müşavirlik ve Mühendislik Public Corporation, Turkish Armed Forces MİLLİ SAVUNMA BAKANLIĞI Other, self-employed Other, self-employed Other, self-employed Company, Arzık Mühendislik (İnşaat), Trainee Arzık İnşaat (Mühendislik) Company, Şua İnşaat, Trainee