

Lect. PhD ADNAN KIRAL

Personal Information

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International Researcher IDs

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Education Information

Doctorate, University of Sheffield, Department of Engineering, Department of Automatic Control and Systems Engineering, England 2018 - 2022

Postgraduate, Brunel University, Civil Engineering, England 2016 - 2017

Undergraduate, Sakarya University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 2010 - 2014

Certificates, Courses and Trainings

Vocational Training, Constructionarium Week held at the National Construction College England, Brunel University, PJ Careys PLC and Atkins , 2017

Dissertations

Doctorate, Novel Displacement Dependent Viscous Damper for SemiactiveControl of the Seismic Response of Multi-Storey Buildings, University of Sheffield, engineering , civil engineering, 2018

Research Areas

Structural Mechanics, Building Dynamics, Structure, Structural Engineering, Performance of Constructed Facilities, Earthquake Engineering, Mechanical Vibrations

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2022 - Continues

Courses

Structure Dynamics, Postgraduate, 2023 - 2024

Matlab applications in Civil Engineering, Postgraduate, 2023 - 2024

Introduction to Structure Dynamics, Undergraduate, 2023 - 2024
Construction Management and Quantity Surveying, Undergraduate, 2023 - 2024
Engineering Mechanics, Undergraduate, 2023 - 2024
Introduction to Earthquake Resistant Building Design, Postgraduate, 2023 - 2024
Introduction to Earthquake Engineering, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A case study comparing seismic retrofitting techniques for a historically significant masonry building's minaret**
Kiral A., Ergün M., Tonyali Z., Artar M., Şentürk I.
ENGINEERING FAILURE ANALYSIS, vol.40, no.5, pp.1-40, 2024 (SCI-Expanded)
- II. **The Seismic Response Evaluation of an Existing Multi-span Reinforced Concrete Highway Bridge in the Presence of Linear and Nonlinear Viscous Dampers**
Kiral A., Gurbuz A., Ustabas I.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.24, no.2, pp.1-19, 2024 (SCI-Expanded)
- III. **Seismic performance assessment of steel buildings equipped with a new semi-active displacement-dependent viscous damper**
Kiral A., Garcia R., Petkovski M., Hajirasouliha I.
JOURNAL OF EARTHQUAKE AND TSUNAMI, vol.1, no.1, pp.1-18, 2024 (SCI-Expanded)

Articles Published in Other Journals

- I. **The effect of LRB stiffness changes with and without supplemental viscous dampers on seismic responses of an experimentally verified MDOF building**
Kiral A., Tonyali Z.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.7, no.7, pp.1-20, 2024 (ESCI)
- II. **Evaluation of Earthquake-Related Damages on the Reinforced Concrete Buildings due to the February 6, 2023, Kahramanmaras-Turkiye Earthquakes**
Tonyali Z., Kiral A.
Recep Tayyip Erdogan University Journal of Science and Engineering, vol.5, no.1, pp.1-26, 2024 (Peer-Reviewed Journal)
- III. **Using supplemental linear viscous dampers for experimentally verified base-isolated building: Case study**
KIRAL A., GÜRBÜZ A.
Journal of Structural Engineering & Applied Mechanics (Online), vol.7, no.1, 2024 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Seismic Response Control of Buildings Using Viscous-Based Devices**
Kiral A., Tonyali Z.
in: Modern Approaches to Traffic Safety and Sound Insulation, Doç. Dr. Kurtuluş ARTIK, Editor, Bidge Publisher, Ankara, pp.70-111, 2024

Refereed Congress / Symposium Publications in Proceedings

- I. **Multi-Objective Optimization of an Experimentally Verified Base-Isolated Building**
Kiral A., Tonyali Z.

EU 6th International Conference on Health, Engineering and Applied Sciences , Belgrade, Serbia, 17 - 20 October 2024, pp.1-20

II. EVALUATING THE KAHRAMANMARAS EARTHQUAKE OF FEBRUARY 6 2023 IN TURKEY BASED ON NEW GENERATION ATTENUATION GROUND MOTION (NGA) MODELS

Kıral A., Tonyalı Z.

EUROPEAN CONFERENCES 2nd INTERNATIONAL CONFERENCE ON HEALTH, ENGINEERING AND APPLIED SCIENCES, Belgrade, Serbia, 4 - 06 August 2023, pp.1-6

III. STRUCTURAL AND ECONOMIC EFFECTS OF SEA LEVEL RISING IN HATAY-ISKENDERUN AFTER 6 FEBRUARY 2023 TURKEY-SYRIA EARTHQUAKE

Süme V., Kıral A.

4th INTERNATIONAL MEDITERRANEAN CONGRESS, Lefkoşa, Cyprus (Kktc), 15 - 16 June 2023, pp.241-248

IV. Using the Concept of "Weakening and Viscous Damping" for retrofitting of a Structure

Kıral A., Gürbüz A., Ustabas İ.

EGE 8th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 2 - 04 June 2023, pp.1-10

V. THE FEBRUARY 6, 2023, KAHRAMANMARAS-TURKIYE EARTHQUAKES: SEISMO-TECTONIC EVALUATIONS AND EFFECTS ON REINFORCED CONCRETE BUILDINGS

Kıral A., Tonyalı Z.

EGE 8th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 2 - 04 June 2023, pp.1-12

VI. Semiactive Fluid Viscous Damper for Seismic Control of Multi-Storey Buildings

Kıral A., Petkovski M.

ACSE Seminer / Sheffield UK, Sheffield, England, 03 March 2020, pp.1

Other Publications

I. DEPREMDE "Miroğlu Gıda San. ve Tic. A.Ş." ye AİT UN FABRİKASI BİNASINDA MEYDANA GELEN HASARLARIN GÜÇLENDİRME YAPILARAK YAPI GÜVENLİĞİNİN SAĞLANMASINA AİT TEKNİK RAPOR

Süme V., Kıral A.

Technical Report, pp.1-9, 2023

II. Novel Displacement Dependent Viscous Damper for Semiactive Control of the Seismic Response of Multistorey Buildings

Kıral A., Petkovski M.

Other, pp.1-120, 2022

Expert Reports

I. Hasar tespit tutanağı

Kıral A.

Trabzon cumhuriyet başsavcılığı, pp.38, Hatay, 2023