Prof. KEMAL BEYEN



Personal Information

Email: kbeyen@kocaeli.edu.tr

Web: https://avesis.kocaeli.edu.tr/kbeyen

International Researcher IDs

ORCID: 0000-0001-8878-0985

Publons / Web Of Science ResearcherID: F-5744-2018

Yoksis Researcher ID: 154081



Education Information

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering, Turkey 1986 - 1989

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, A Study on Two Dimensional Nonlinear Analysis of Site Response, Bogazici University, Kandilli Observatory And Earthquake Research Institute, Department Of Earthquake Engineering, 1997 Postgraduate, Developing the Computer Programs For The Dynamic Effects in Computational Structural Analysis, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 1989

Research Areas

Earth Observations (Remote Sensing), Seismology, Civil Engineering, Mechanical, Structure

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2019 - Continues
Associate Professor, Kocaeli University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2009 - 2019
Assistant Professor, Kocaeli University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2004 - 2009
Research Assistant PhD, Bogazici University, Kandilli Observatory And Earthquake Research Institute, Department Of Earthquake Engineering, 1998 - 2004
Research Assistant, Bogazici University, Kandilli Observatory And Earthquake Research Institute, Department Of Earthquake Engineering, 1990 - 1998

Academic and Administrative Experience

Supervised Theses

Beyen K., 17 Ağustos 1999 Kocaeli Depreminde Hasar Alan Bir Yapının Performans Analizleri, Postgraduate, C.Güneş(Student), Continues

BEYEN K., Farklı zemin koşulları etkisinde sismik davranışın doğrusal olmayan dinamik çözümleme ile incelenmesi, Postgraduate, R.BURAK(Student), 2012

BEYEN K., Passive and active control of seismically excited buildings, Postgraduate, E.ATAM(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

I. Hanging Wall and Footwall Effects in the Largest Reverse-Slip Earthquake of Turkey, October 23, 2011, M W 7.2 Van Earthquake

Beyen K.

Arabian Journal for Science and Engineering, vol.44, pp.4757-4781, 2019 (SCI-Expanded)

II. Damage Analysis of the Structures in Time-Frequency Domain with Wavelet Transform Method Sak O. F., Beyen K.

TEKNIK DERGI, vol.30, pp.8835-8860, 2019 (SCI-Expanded)

III. Damage simulation by finite element updating using vibration characteristics Titreşim verisiyle güncellenmiş sonlu eleman modeliyle hasar simulasyonu

BEYEN K.

Journal of the Faculty of Engineering and Architecture of Gazi University, vol.32, no.2, pp.403-415, 2017 (SCI-Expanded)

IV. Reliability of MEMS accelerometers for instrumental intensity mapping of earthquakes

Tanırcan G., Alçık H., Beyen K.

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V. Strong ground motion characteristics of the 2011 Van Earthquake of Turkey: Implications of seismological aspects on engineering parameters

Beyen K., Tanircan G.

Earthquake and Structures, vol.8, pp.1363-1386, 2015 (SCI-Expanded)

VI. Structural identification for post-earthquake safety analysis of the Fat i'h mosque after the 17 August 1999 Kocael i'earthquake

Beyen K.

Engineering Structures, vol.30, pp.2165-2184, 2008 (SCI-Expanded)

VII. Two-dimensional nonlinear site response analysis of Adapazarı plain and predictions inferred from aftershocks of the Kocaeli earthquake of 17 August 1999

Beyen K., Erdik M.

Soil Dynamics and Earthquake Engineering, vol.24, no.3, pp.261-279, 2004 (SCI-Expanded)

VIII. Recorded Main Shock and Aftershock Motions

Safak E., Erdik M., Beyen K., Carver D., Cranswick E., Celebi M., Durukal E., Ellsworth W., Holzer T., Meremonte M., et al.

Earthquake Spectra, vol.16, pp.97-112, 2000 (SCI-Expanded)

Articles Published in Other Journals

I. Seismic performance of a base isolated structure in time-frequency domain with wavelet transform Ozenir A., BEYEN K.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.30, no.2, pp.228-239, 2024 (ESCI)

II. ANALYSIS OF THE COLLISION EFFECT FOR ADJACENT STRUCTURES IN THE TIME-FREQUENCY DOMAIN

Sak Ö. F., Beyen K.

Eskişehir Technical University Journal of Science and Technology A- Applied Sciences and Engineering, vol.23, no.3, pp.195-206, 2022 (Peer-Reviewed Journal)

III. NEAR-FAULT AND FAR-FAULT GROUND MOTION EFFECTS ON TALL BUILDINGS WITH CORE WALL Sezgin R. E., Beyen K.

6. International Conference on Earthquake Engineering and Seismology, vol.1, no.1, pp.1-10, 2021 (Conference Book)

IV. STRUCTURE BEHAVIOR CONTROL UNDER SEISMIC LOADS

Bati M., Beyen K.

6. International Conference on Earthquake Engineering and Seismology, vol.1, no.1, pp.1-12, 2021 (Conference Book)

V. STRUCTURAL RESPONSE SIMULATION OF A BUILDING, DESIGNED BY 2018 TURKISH ASEISMIC PROVISION

Beven K.

6. International Conferans on Earthquake Engineering and Seismology, vol.1, no.1, pp.1-11, 2021 (Conference Book)

VI. Time and Frequency Domain Transformations in the Structural Identification

Beyen K.

Transactions of the PACE 2021 (Phenomenological Aspects of Civil Engineering), vol.1, no.1, pp.64-79, 2021 (Peer-Reviewed Journal)

VII. EFFECTS OF WIND, AMBIENT AND EARTHQUAKE LOADING ON IDENTIFICATION ON STRUCTURAL CHARACTERISTICS OF THE TALL BUILDINGS

Beven K.

9TCEE Conference Book, vol.1, no.1, pp.449-458, 2021 (Conference Book)

VIII. The effects of far and near field earthquakes on tall building behavior

Beyen K.

9th Turkish Conference on Earthquake Engineering, 2021, vol.1, no.1, pp.745-754, 2021 (Conference Book)

IX. Kocaeli Üniversitesi Fen Bilimleri Dergisi

Batı M., Beyen K.

Kocaeli Üniversitesi Fen Bilimleri Dergisi, vol.3, no.1, pp.66-76, 2020 (Peer-Reviewed Journal)

X. Estimation of the Dynamic Characteristic of a Structure and Condition Assessment using Structural Identification Algorithms

Sert A., Beyen K.

Kocaeli Üniversitesi Fen Bilimleri Dergisi, vol.1, pp.1-9, 2019 (Peer-Reviewed Journal)

XI. STUDY ON THE RESPONSE CHARACTERISTICS OF THE FATIH MOSQUE IN TIMEFREQUENCY DOMAIN IN CASES OF THE DIFFERENT DYNAMIC SOURCES

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III. ULUSLARARASI BATTALGAZİ BİLİMSEL ÇALIŞMALAR KONGRESİ TAM METİN KITABI, vol.1, no.1, pp.351-367, 2019 (Conference Book)

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XIII. INVESTIGATION OF WEAK AND SOFT STORY IRREGULARITIES FOR DIFFERENT EARTQUAKES Özyürek K., Beyen K.

Kocaeli Üniversitesi Fen Bilimleri dergisi, vol.1, no.1, pp.1-12, 2019 (Peer-Reviewed Journal)

XIV. Comparison of 12-Storey Steel and Reinforced Concrete Structures under the Same Conditions

According to the Principles of TBDY 2018

Kuşu A., Beyen K.

Kocaeli Üniversitesi Fen Bilimleri dergisi, vol.1, no.1, pp.1-10, 2019 (Peer-Reviewed Journal)

XV. The Effect of Infill Walls and Damping Systems on Behaviors of Reinforced Concrete Buildings Against Earthquake

Çelebi O., Beyen K.

Afet ve Risk Dergisi, vol.1, no.1, pp.9-25, 2018 (Peer-Reviewed Journal)

XVI. EFFECTS OF THE LOCAL SOIL BEHAVIOR AND SUPPORT CONDITIONS ON EARTHQUAKE RESPONSE OF THE HISTORICAL STRUCTURES

Eren G., Beyen K.

ESKİŞEHİR TEKNİK ÜNİVERSİTESİ BİLİM VE TEKNOLOJİ DERGİSİ B- TEORİK BİLİMLER, vol.6, no.1, pp.244-252, 2018 (Peer-Reviewed Journal)

XVII. A Study on the Performance of Low Cost MEMS Sensors in Strong Motion Studies

Tanırcan G., Alçık H., Kaya Y., Beyen K.

European Geosciences Union (EGU) - Geophysical Research Abstract, vol.19, no.1, pp.1, 2017 (Conference Book)

Refereed Congress / Symposium Publications in Proceedings

I. Two Dimensional Nonlinear Analysis of Topographical Site Effects On Earthquake Ground Response and Field Observations

Beyen K.

Türkiye İnşaat Mühendisliği 18. Teknik Kongre ve Sergisi, 7-9 Kasım 2022, İstanbul, İstanbul, Turkey, 7 - 09 November 2022, vol.1, no.1, pp.379-405

II. Analysis of Near and Far Field Earthquake Responses for the Midrise Buildings

Mostura A. B., Beyen K.

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III. Seismic Performance of a Base Isolated Structure in Time-Frequency Domain

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IV. INVESTIGATION OF FLOOR VIBRATIONS OF STEEL STRUCTURE UNDER EARTHQUAKE EFFECT Beyen K., Çelebi O.

9th Turkish Conference on Earthquake Engineering, 1-3 June 2021, İstanbul, Turkey, 1 - 03 June 2021, vol.1, no.1, pp.1-8

V. Time and Frequency Domain Transformations in the structural Identification

Beyen K.

PACE-2021 International Congress on the Phenomenological Aspects of Civil Engineering, Erzurum, Turkey, 20-23 June 2021, vol.1, no.1, pp.39-54

VI. STUDY ON STATISTICAL EVALUATION IN TIME-FREQUENCY DOMAIN FOR DAMAGE IDENTIFICATION Sak F. Ö., Beyen K.

5. International Conference on Earthquake Engineering and Seismology (5ICEES), Ankara, Turkey, 8-11 October 2019, pp.1-12

VII. EFFECTS OF THE NEAR AND FAR FIELD EARTHQUAKES ON THE BEHAVIOR OF THE REINFORCED CONCRETE BUILDINGS WITH INFILL WALLS

Çelebi O., Beyen K.

5. InternationalConference on Earthquake Engineering and Seismology (5ICEES) , Ankara, Turkey, 8 - 11 October 2019, pp.1-11

VIII. Damage Survey Verification Study for the Fatih Mosque

Beyen K.

VI. International Earthquake Symposium Kocaeli 2019 - IESKO-2019, Kocaeli, Turkey, 25 - 27 September 2019, pp.1-7

IX. In Structural Identification, Fourier Transformation and New Generation Transformations Beven K.

IESKO 2019 VI. International Earthquake Symposium Kocaeli 2019, Kocaeli, Turkey, 25 - 27 September 2019, pp.640-650

X. A STUDY FOR INCLUDING THE EFFECT OF INFILL WALLS ON EARTHQUAKE PERFORMANCE OF REINFORCED CONCRETE BUILDINGS

Çelebi O., Beyen K.

IESKO 2019 VI. International Earthquake Symposium Kocaeli 2019, Kocaeli, Turkey, 25 - 27 September 2019, pp.384-389

XI. STUDY ON THE RESPONSE CHARACTERISTICS OF THE FATIH MOSQUE IN TIMEFREQUENCY DOMAIN IN CASES OF THE DIFFERENT DYNAMIC SOURCES

Beyen K

III. Uluslararası Battalgazi Bilimsel Çalışmalar Kongresi, Malatya, Turkey, 21 - 23 September 2019, vol.1, no.1, pp.351-367

XII. MODAL ANALYSIS of 3 STOREY REINFORCED CONCRETE BUINDING UNDER THE EFFECT of VAN EARTHQUAKE

Çelebi O., Beyen K.

HOCA AHMET YESEVİ ULUSLARARASI BİLİMSEL ARAŞTIRMALAR KONGRESİ, Adıyaman, Turkey, 26 - 27 August 2019, pp.1127-1153

XIII. Boundary Condition Effects on Earthquake Responses

Sert A., Beyen K.

International Marmara Science and Social Science Congress, Kocaeli, Turkey, 23 - 25 November 2018, vol.1, pp.1543-1546

XIV. FATİH CAMİİ 'NİN ZAMAN VE FREKANS ORTAMINDA ÇEVREL VE DEPREM TEPKİ ANALİZLERİ Beyen K.

Uluslararası Katılımlı 6. Tarihi Yapıların Korunması ve Güçlendirilmesi Sempozyumu, Trabzon, Turkey, 2 - 04 November 2017, vol.1, pp.1-12

XV. EFFECTS OF LOCAL SOIL, SUPPORTS, HORIZONTAL AND VERTICAL STRONG GROUND MOTION CONDITIONS ON THE RESPONSES OF THE HISTORICAL STRUCTURE

Eren G., Beyen K.

6th International Symposium on Conservation and Consolidation of Historical Structures, Trabzon, Turkey, 2 - 04 November 2017, vol.1, pp.1-10

XVI. EFFECTS OF THE LOCAL SOIL BEHAVIOR AND SUPPORT CONDITIONS ON EARTHQUAKE RESPONSE OF THE HISTORICAL STRUCTURES

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4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017, vol.1, pp.1-9

XVII. DETERMINATION OF LEVEL OF COMFORT AND PERCEPTION FOR A HUMAN BODY IN TALL BUILDING STRUCTURES SUBJECTED TO EARTHQUAKE AND AMBIENT VIBRATIONS

Beyen K.

4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017, vol.1, pp.1-13

XVIII. DEPREM SARSINTI HARİTALARI ÜRETİLMESİNDE MEMS TİPİ İVMEÖLÇERLERİN VERİMİNE İLİŞKİN BİR ARAŞTIRMA

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4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017, vol.1, pp.1-8

XIX. COLLISION EFFECT OF ATTACHED RC STRUCTURES AND PERFORMANCE ANALYSIS IN TIME-FREQUENCY DOMAIN

Sak Ö. F., Beyen K.

4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017, vol.1, pp.1-

XX. 23 EKİM 2011 VAN DEPREMİNİN MW 7 2 JEOLOJİK VE YEREL ZEMİN DAVRANIŞIAÇISINDAN DEĞERLENDİRİLMESİ

KARAKAS A., BEYEN K.

Kocaeli 2015 5th International Earthquake Symp., Kocaeli, Turkey, 10 - 12 June 2015

XXI. Earthquake Levels Used in Performance-Based Design of Tall Buildings

Engin S., Okay F., Beyen K.

3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, İzmir, Turkey, 14 - 16 October 2015, pp.1-9

XXII. Effects of Near Field Earthquakes on High-Rise Reinforced Concrete Buildings with Different Ground Properties

Engin S., Okay F., Beyen K.

5. Uluslararası Deprem Sempozyumu, Kocaeli, Turkey, 10 - 12 July 2015, pp.333-337

XXIII. BİR BETONARME BİNANIN SANAL DAVRANIŞ VERİLERİYLE HASAR TESPİTİ İÇİN ANALİTİK VE DENEYSEL ÇALIŞMA

Sak Ö. F., Beyen K.

5th International Earthquake Symposium - Kocaeli, Kocaeli, Turkey, 10 - 12 June 2015, vol.1, pp.319-332

XXIV. 17 AĞUSTOS 1999 KOCAELİ DEPREMİNDE HASAR ALAN BİNADA KAT GEÇİRGENLİK FONKSİYONLARIYLA HASAR TANILAMA

Beyen K.

5th International Earthquake Symposium - Kocaeli, Kocaeli, Turkey, 10 - 12 June 2015, vol.1, pp.287-291

XXV. HASAR TANILAMA ANALİZLERİNDE FREKANS-ZAMAN ÇÖZÜMLEMESİ

Beyen K.

5th International earthquake Symposium - Kocaeli, Kocaeli, Turkey, 10 - 12 June 2015, vol.1, pp.595-599

XXVI. 23 EKİM 2011 VAN DEPREMİNİN (MW 7.2) JEOLOJİK VE YEREL ZEMİN DAVRANIŞI AÇISINDAN DEĞERLENDİRİLMESİ

Beyen K., Karakaş A.

5th International Earthquake Symposium, Kocaeli, Turkey, 10 - 12 June 2015, vol.1, pp.555-558

XXVII. Effects of Near Field Earthquakes Forward Directivity Effects on High-Rise Reinforced Concrete Buildings

Beyen K., Okay F., Engin S.

8. Ulusal Deprem Mühendisliği Konferansı, İstanbul, Turkey, 11 - 15 May 2015, pp.537-547

XXVIII. Effect of Peak Ground Velocity (PGV) Variation of Near Field Recorded Earthquakes on Reinforced Concrete High-Rise Structures

Engin S., Okay F., Beyen K.

8. Ulusal Deprem Mühendisliği Konferansı, İstanbul, Turkey, 11 May - 15 October 2015, pp.1391-1401

XXIX. Investigation on the Possibility of Matching Vulnerability Assessment with Field Observations for Real Structures

Beyen K., Kutanis M., Bal İ. E.

International Balkans Conferance on Challenges of Civil Engineering, BCCCE, Tirane, Albania, 19 - 21 May 2011, vol.1, pp.1-8

XXX. Testing Assessment Procedures with a Damaged Real Building

Bal İ. E., Kutanis M., Beyen K.

14th European Conference on Earthquake Engineering 2010, Ohrid, Macedonia, 30 August - 03 September 2010, vol.1, pp.6213-6220

XXXI. Comparison of the results inferred from OMA and IEMA

Beyen K., Kutanis M.

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XXXII. Examination of Reliability of Linear Dynamic Analysis on Structures of Different Heights

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XXXIV. Identification of The Dynamic Characteristics of The Topographic Structures Through Two Dimensional Nonlinear Wave Propagation Analysis

Beven K.

International earthquake Symposium - Kocaeli 2009, Kocaeli, Turkey, 17 - 19 August 2009, vol.1, pp.1

XXXV. EARTHQUAKE DAMAGE DISTRIBUTION AND ESTIMATED GROUND MOTIONS DURING THE 1999 KOCAELI EARTHQUAKE IN ADAPAZARI REGION, TURKEY

Hashimoto M., Motaki K., Seo K., Beyen K.

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XXXVI. Two Dimensional Nonlinear Simulation of the Site Response of Adapazarı Plain Under Aftershocks of The Kocaeli Earthquake, 17 August, 1999

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XXXVII. Non-destructive Testing Techniques of Structural Materials in Historitical Structures

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XXXVIII. SOIL-STRUCTURE INTERACTION ANALYSIS VIA FIXED-BASE SYSTEM SUBJECTED TO A MODIFIED GROUND MOTION

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US - JAPAN WORKSHOP ON SOIL-STRUCTURE INTERACTION, California, United States Of America, 22 - 23 September 1998, vol.1, pp.1-17

XXXIX. ASSESSMENT OF MORTAR AND BRICK PROPERTIES OF HAGIA SOPHIA BY NON-DESTRUCTIVE TESTING TECHNIQUES Ö. Yüzügüllü, E. Durukal & K. Beyen

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XL. **AMBIENT VIBRATION INVESTIGATION OF THE BOGAZICI SUSPENSION BRIDGE, ISTANBUL, TURKEY** BEYEN K., UCKAN E., ERDIK M.

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XLI. STRONG-MOTION INSTRUMENTATION OF AYA-SOFYA AND THE ANALYSIS OF RESPONSE TO AN EARTHQUAKE OF 4.8 MAGNITUDE

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3RD INTERNATIONAL CONF ON STRUCTURAL STUDIES, REPAIRS AND MAINTENANCE OF HISTORICAL BUILDINGS, BATH, ENGLAND, 01 June 1993, pp.99-114

XLII. STRONG-MOTION INSTRUMENTATION OF AYA-SOFYA AND THE ANALYSIS OF RESPONSE TO AN EARTHQUAKE OF 4.8 MAGNITUDE

Erdık M., Durukal E., Yuzugullu Ö., Beyen K., Kadakal U.

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XLIII. Preliminary Site Response Analysis in the Erzincan Basin Based on Microtremor Measurements Swift J. N., Kadakal U., Beyen K., Erdik M.

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