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## Kişisel Bilgiler

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## Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1995 - 2001

## Yabancı Diller

İngilizce, C1 İleri

## Yaptığı Tezler

Doktora, Energy based seismic evaluation of degrading systems, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2001

## Araştırma Alanları

İnşaat Mühendisliği , Mekanik, Yapı , Mühendislik ve Teknoloji

## Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2004 - Devam Ediyor

## Akademik İdari Deneyim

Afet Yönetimi Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyeliği, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - 2023

## Yönetilen Tezler

Erberik M. A., Askan Gündoğan A., Effect of vertical ground motion on the performance of high-rise buildings, Yüksek Lisans, E.KESKİN(Öğrenci), 2020

Erberik M. A., Predefined damage patterns for limit analysis on non-engineered masonry buildings, Yüksek Lisans, C.İÇEL(Öğrenci), 2019

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ERBERİK M. A., Performance evaluation of confined masonry walls, Yüksek Lisans, G.ERKÖSEOĞLU(Öğrenci), 2014

ERBERİK M. A., Kuşatılmış yağma duvarların performans değerlendirilmesi, Yüksek Lisans, G.Erköseoğlu(Öğrenci), 2014

ERBERİK M. A., ASKAN GÜNDOĞAN A., An approach for seismic damage assessment of residential buildings, Yüksek Lisans, C.DEMİRCİ(Öğrenci), 2014

ERBERİK M. A., ASKAN GÜNDOĞAN A., An integrated seismic loss estimation methodology: A case study in Northwestern Turkey, Yüksek Lisans, E.MÜGE(Öğrenci), 2011

ERBERİK M. A., Seismic vulnerability of masonry structures in Turkey, Yüksek Lisans, H.CERAN(Öğrenci), 2010

ERBERİK M. A., SUCUOĞLU H., Energy based seismic performance assessment of reinforced concrete columns, Doktora, B.ACUN(Öğrenci), 2010

ERBERİK M. A., A simple seismic performance assessment technique for unreinforced brick masonry structures, Yüksek Lisans, A.ALDEMİR(Öğrenci), 2010

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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Seismic Assessment of Electrical Equipment in Power Substations: A Case Study for Circuit Breakers**  
Kaatsiz K., Alici F. S., ERBERİK M. A.  
Turkish Journal of Civil Engineering, cilt.35, sa.4, ss.49-68, 2024 (SCI-Expanded)
- II. **Development of a GIS-Based Predicted-VS30 Map of Türkiye Using Geological and Topographical Parameters: Case Study for the Region Affected by the 6 February 2023 Kahramanmaraş Earthquakes**

ŞAHİN G., Okalp K., KOÇKAR M. K., YILMAZ M. T., JALEHFOROUZAN A., Temiz F. A., ASKAN GÜNDOĞAN A., AKGÜN H., ERBERİK M. A.

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- III. **Fundamental period estimation of RC buildings by considering structural and non-structural damage distributions through neural network**  
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Neural Computing and Applications, cilt.36, sa.3, ss.1329-1350, 2024 (SCI-Expanded)
- IV. **The Sensitivity of Global Structural Parameters for Unreinforced Masonry Buildings Subjected to Simulated Ground Motions**  
Koc A. B., ERBERİK M. A., ASKAN GÜNDOĞAN A., Karimzadeh S.  
Buildings, cilt.13, sa.8, 2023 (SCI-Expanded)
- V. **Simplified Approach for In-Plane Strength Capacity of URM Walls by Using Lower-Bound Limit Analysis and Predefined Damage Patterns**  
Karadeniz D., YILMAZ M. T., Icel C., ERBERİK M. A.  
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- VI. **An evaluation of seismic hazard and potential damage in Gaziantep, Turkey using site specific models for sources, velocity structure and building stock**  
ARSLAN KELAM A., Karimzadeh S., Yousefibavil K., AKGÜN H., ASKAN GÜNDOĞAN A., ERBERİK M. A., KOÇKAR M. K., PEKCAN O., Ciftci H.  
Soil Dynamics and Earthquake Engineering, cilt.154, 2022 (SCI-Expanded)
- VII. **Seismic demands of bare and base-isolated steel frames for real against simulated records of a past earthquake**  
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- VIII. **Fragility analysis of wide-beam infill-joist block RC frames**  
Donmez C., Karaarslan E., ERBERİK M. A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.37, sa.1, ss.159-173, 2022 (SCI-Expanded)
- IX. **A case study for probabilistic seismic risk assessment of earthquake-prone old urban centers**  
Altindal A., KARIM ZADEH NAGHSHINEH S., ERBERİK M. A., ASKAN GÜNDOĞAN A., ANIL Ö., KOÇKAR M. K., ŞAHMARAN M.  
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- X. **Benchmarking the seismic assessment of unreinforced masonry buildings from a blind prediction test**  
Parisse F., Cattari S., Marques R., Lourenco P. B., Magenes G., Beyer K., Calderoni B., Camata G., Cordasco E. A., Erberik M. A., et al.  
STRUCTURES, cilt.31, ss.982-1005, 2021 (SCI-Expanded)
- XI. **Derivation of analytical fragility curves using SDOF models of masonry structures in Erzincan (Turkey)**  
Karimzadeh S., Kadas K., Askan A., Erberik M. A., Yakut A.  
EARTHQUAKES AND STRUCTURES, cilt.18, ss.249-261, 2020 (SCI-Expanded)
- XII. **Use of simulated ground motions for the evaluation of energy response of simple structural systems**  
Karimzadeh S., Ozsarac V., Askan A., ERBERİK M. A.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.123, ss.525-542, 2019 (SCI-Expanded)
- XIII. **Seismic performance assessment of confined masonry construction at component and structure levels**  
ERBERİK M. A., Citiloglu C., Erkoseoglu G.  
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.17, sa.2, ss.867-889, 2019 (SCI-Expanded)
- XIV. **Seismic damage assessment based on regional synthetic ground motion dataset: a case study for Erzincan, Turkey**

- Karimzadeh S., Askan A., Erberik M. A., Yakut A.  
NATURAL HAZARDS, cilt.92, ss.1371-1397, 2018 (SCI-Expanded)
- XV. **The effect of structural variability and local site conditions on building fragility functions**  
Sisi A. A., Erberik M. A., Askan A.  
EARTHQUAKES AND STRUCTURES, cilt.14, ss.285-295, 2018 (SCI-Expanded)
- XVI. **Site-specific uniform hazard spectrum in Eastern Turkey based on simulated ground motions including near-field directivity and detailed site effects**  
Sisi A. A., Askan A., Erberik M. A.  
ACTA GEOPHYSICA, cilt.65, ss.309-330, 2017 (SCI-Expanded)
- XVII. **Performance Assessment of Turkish Residential Buildings for Seismic Damage and Loss Estimation**  
Un E. M., Erberik M. A., Askan A.  
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, cilt.29, sa.2, 2015 (SCI-Expanded)
- XVIII. **Blockage assessment of buildings during emergency using multiple types of sensors**  
Ergen Pehlevan E., Guven G., KURÇ Ö., ERBERİK M. A., Ergin T., BİRGÖNÜL M. T., Akinci B.  
AUTOMATION IN CONSTRUCTION, cilt.49, ss.71-82, 2015 (SCI-Expanded)
- XIX. **Effect of out-of-plane behavior on seismic fragility of masonry buildings in Turkey**  
Ceran H. B., ERBERİK M. A.  
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.11, sa.5, ss.1775-1795, 2013 (SCI-Expanded)
- XX. **Seismic Performance Assessment of Unreinforced Masonry Buildings with a Hybrid Modeling Approach**  
Aldemir A., ERBERİK M. A., Demirel I. O., SUCUOĞLU H.  
EARTHQUAKE SPECTRA, cilt.29, sa.1, ss.33-57, 2013 (SCI-Expanded)
- XXI. **Inelastic Displacement Response of RC Systems with Cyclic Deterioration-An Energy Approach**  
ERBERİK M. A., SUCUOĞLU H., Acun B.  
JOURNAL OF EARTHQUAKE ENGINEERING, cilt.16, sa.7, ss.937-962, 2012 (SCI-Expanded)
- XXII. **A Methodology for Seismic Loss Estimation in Urban Regions Based on Ground-Motion Simulations**  
Ugurhan B., Askan A., Erberik M. A.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.101, ss.710-725, 2011 (SCI-Expanded)
- XXIII. **8 March 2010 Elazığ-Kovancilar (Turkey) Earthquake: Observations on Ground Motions and Building Damage**  
Akkar S., Aldemir A., Askan A., Bakir S., Canbay E., Demirel I. O., Erberik M. A., Gülerce Z., Gulkan P., Kalkan E., et al.  
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- XXIV. **Importance of Degrading Behavior for Seismic Performance Evaluation of Simple Structural Systems**  
ERBERİK M. A.  
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- XXV. **Seismic Risk Assessment of Masonry Buildings in Istanbul for Effective Risk Mitigation**  
Erberik M. A.  
EARTHQUAKE SPECTRA, cilt.26, sa.4, ss.967-982, 2010 (SCI-Expanded)
- XXVI. **Fragility-based assessment of typical mid-rise and low-rise RC buildings in Turkey**  
Erberik M. A.  
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- XXVII. **Generation of fragility curves for Turkish masonry buildings considering in-plane failure modes**  
Erberik M. A.  
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- XXVIII. **Vulnerability of Turkish low-rise and mid-rise reinforced concrete frame structures**  
AY B. Ö., ERBERİK M. A.  
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- XXIX. **Fragility analysis of flat-slab structures**  
Erberik M. A., Elnashai A.  
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- XXX. **Energy-based hysteresis and damage models for deteriorating systems**

- Sucuoglu H., Erberik A.  
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- XXXI. **Seismic energy dissipation in deteriorating systems through low-cycle fatigue**  
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- XXXII. **Statistical evaluation of the damage potential of earthquake ground motions**  
Sucuoglu H., Yucemen S., Gezer A., Erberik A.  
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- XXXIII. **Performance evaluation of a three-storey unreinforced masonry building during the 1992 Erzincan earthquake**  
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## **Kitap & Kitap Bölümleri**

- I. **Spatial Distribution of Hysteretic Energy in Reinforced Concrete Moment Resisting Frames**  
Erberik M. A., Azizi M.  
Energy Based Seismic Engineering, Amadeo Benavent-Climent, Fabrizio Mollaioli, Editör, Springer, London/Berlin ,  
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- II. **Rapid Seismic Assessment Procedures for the Turkish Building Stock**  
YAKUT A., ERBERİK M. A., İLKİ A., SUCUOĞLU H., AKKAR D. S.  
Seismic Evaluation and Rehabilitation of Structures, Alper İlki, Michael N. Fardis, Editör, Springer, ss.15-35, 2014

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Field Survey-Based Macroseismic Intensity Map of the 6th of February 2023 Kahramanmaraş Earthquakes**  
Albayrak K., ASKAN GÜNDOĞAN A., ERBERİK M. A., KOÇKAR M. K., Aydın M. F.  
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Kasım 2023, cilt.401 LNCE, ss.107-114
- II. **TÜRKİYE BİNA DEPREM YÖNETMELİĞİNE UYGUNLUK ENDEKSİNİN HESAPLANMASI**  
Ünal B., Erberik M. A., Askan Gündoğan A.  
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2021, ss.1-6
- III. **INTRODUCTION TO SEISMIC RISK ASSESSMENT FRAMEWORK FOR HISTORICAL STRUCTURES IN TURKEY**  
Temiz C., Erberik M. A., Askan Gündoğan A.  
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- IV. **SEISMIC ASSESSMENT OF ELECTRIC TRANSMISSION SYSTEMS**  
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- V. **COMPARISON OF REAL AND SIMULATED RECORDS IN TERMS OF SEISMIC INPUT ENERGY FOR A BASE ISOLATED STRUCTURE**  
Özsaraç V., Karimzadeh S., Askan Gündoğan A., Erberik M. A.  
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- VI. **Türkiye'deki Yiğma Binaların Genel Özelliklerine Dair Bir Çalışma**  
Eroğlu Azak T., Erberik M. A.

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**VII. Energy-Based Evaluation of RC Frame Structures**

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**VIII. Seismic Performance of Masonry Buildings Subjected to Synthetic Ground Motions**

Koç A. B., Erberik M. A., Askan Gündoğan A., Karım Zadeh Naghshineh S.

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**IX. Comparison of energy-based responses of structural systems to real and simulated ground motion records**

Ozsarac V., Karimzadeh S., Askan A., ERBERİK M. A.

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**X. Comparison energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**

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13th International Congress on Advances in Civil Engineering, İzmir, Türkiye, 12 - 14 Eylül 2018

**XI. Comparison of energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**

KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A.

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**XII. EVALUATION OF SEISMIC ENERGY IN SIMPLE STRUCTURAL SYSTEMS USING SIMULATED GROUND MOTIONS**

Karım Zadeh Naghshineh S., Ozsarac V., Askan Gündoğan A., Erberik M. A.

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**XIII. FRAGILITY CURVES FOR RC BUILDINGS OF DUZCE (TURKEY) USING SIMULATED RECORDS**

Kadas K., Karımzadeh S., Askan A., Erberik M. A., Yakut A.

11th U.S. National Conference on Earthquake Engineering, California, Amerika Birleşik Devletleri, 25 - 29 Haziran 2018

**XIV. Predefined damage patterns for limit analysis on non-engineered masonry buildings**

İÇEL C., ERBERİK M. A., YILMAZ M. T.

16th European Conference on Earthquake Engineering, 18 - 21 Haziran 2018

**XV. A comparative study on the seismic performances of unreinforced and confined masonry buildings**

ERBERİK M. A., ÇİTİLOĞLU C., ERKÖSEOĞLU G.

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**XVI. THE COMPARISON OF DIFFERENT FRAGILITY CURVE GENERATION TECHNIQUES TO ESTIMATE OBSERVED DAMAGE DISTRIBUTIONS**

Karım Zadeh Naghshineh S., Kadas K., Askan A., Erberik M. A., Yakut A.

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**XVII. From Seismic Sources to Engineering Demand Parameters: An Interdisciplinary Framework for Estimation of Seismic Losses in Urban Region**

ASKAN GÜNDOĞAN A., Asten M., Erberik M. A., Erkmen C., KARIM ZADEH NAGHSHINEH S., Kilic N., Sisman F. N., YAKUT A.

2nd Workshop on Best Practices in Physics-based Fault Rupture Models for Seismic Hazard Assessment of Nuclear Installations: Issues and Challenges towards Full Seismic Risk Analysis (Best PSHANI), Cadarache, Fransa, 14 - 16 Mayıs 2018

**XVIII. From Seismic Sources to Engineering Demand Parameters: An Interdisciplinary Framework for Estimation of Seismic Losses in Urban Regions**

Askan Gündoğan A., Asten, Asten, Asten, Asten M., Erberik M. A., Erkmen C., Karimzadeh S., Kilic N., Sisman F. N., Yakut A.

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- XIX. FROM SEISMIC SOURCES TO ENGINEERING DEMAND PARAMETERS: AN INTERDISCIPLINARY FRAMEWORK FOR ESTIMATION OF SEISMIC LOSSES IN URBAN REGIONS**  
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- XX. An energy-based seismic response evaluation of simple structural systems with simulated ground motions**  
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- XXI. Comparison of energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**  
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- XXII. A guideline for earthquake risk management of historical structures in Turkey**  
AHUNBAY Z., ALTAY G., ARUN E. G., AYDEMİR O., ATASAGUN F. D., CELEP Z., ERBERİK M. A., İLKİ A., KURAN F., ÜNAL Z. G., et al.  
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- XXIII. Yığma Yapıların Deprem Etkisi Altında Gözleme ve Hesaba Bağlı Değerlendirilmesi için Yöntem**  
GENEŞ M. C., Abrahamczyk L., KAÇIN S., ERBERİK M. A.  
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- XXIV. An energy-based seismic response evaluation of simple structural systems with simulated ground motions**  
KARIMZADEH S., ÖZSARAÇ V., ASKAN GÜNDOĞAN A., ERBERİK M. A.  
4th International Conference on Earthquake Engineering and Engineering Seismology, 11 - 13 Ekim 2017
- XXV. Kırılma eğrileri kullanılarak elde edilen tahmini hasar dağılımının hasar tespit verileriyle karşılaştırılması**  
ÇETİN C., ERBERİK M. A.  
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- XXVI. Donatısız ve kuşatılmış yığma yapıların deprem performanslarının karşılaştırılması**  
ÇİTİLOĞLU C., ERBERİK M. A.  
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- XXVII. An Energy-Based Seismic Response Evaluation of Simple Structural Systems with Simulated Ground Motions**  
KARIM ZADEH NAGHSHINEH S., Ozsarac V., ASKAN GÜNDOĞAN A., Erberik M. A.  
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- XXVIII. AN INVESTIGATION ON THE USE OF SIMULATED RECORDS IN DERIVATION OF FRAGILITY CURVES FOR RC BUILDINGS IN**  
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## **Metrikler**

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Atıf (WoS): 581

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## **Akademi Dışı Deneyim**

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