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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

ERBERİK M. A., SUCUOĞLU H., ENERGY BASED SEISMIC ASSESSMENT AND DESIGN, Doktora, F.SONER(Öğrenci), 2019

Erberik M. A., Energy based evaluation of RC frame structures, Yüksek Lisans, M.AZIZI(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

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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

1. **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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- II. **Fundamental period estimation of RC buildings by considering structural and non-structural damage distributions through neural network**  
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- III. **The Sensitivity of Global Structural Parameters for Unreinforced Masonry Buildings Subjected to Simulated Ground Motions**  
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- IV. **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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- V. **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)
- VI. **Seismic demands of bare and base-isolated steel frames for real against simulated records of a past earthquake**  
Ozsarac V., Karimzadeh S., Askan Gündoğan A., Erberik M. A.  
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- VII. **Fragility analysis of wide-beam infill-joist block RC frames**  
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JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.37, sa.1, ss.159-173, 2022 (SCI-Expanded)
- VIII. **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.  
International Journal of Disaster Risk Reduction, cilt.61, 2021 (SCI-Expanded)
- IX. **Benchmarking the seismic assessment of unreinforced masonry buildings from a blind prediction test**  
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- X. **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.  
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- XI. **Use of simulated ground motions for the evaluation of energy response of simple structural systems**  
Karimzadeh S., Ozsarac V., Askan A., ERBERİK M. A.  
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- XII. **Seismic performance assessment of confined masonry construction at component and structure levels**  
ERBERİK M. A., Citiloglu C., Erkoseoglu G.  
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- XIII. **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.  
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- XIV. **The effect of structural variability and local site conditions on building fragility functions**

- Sisi A. A., Erberik M. A., Askan A.  
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- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **Seismic Performance Assessment of Unreinforced Masonry Buildings with a Hybrid Modeling Approach**  
Aldemir A., ERBERİK M. A., Demirel I. O., SUCUOĞLU H.  
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- XX. **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)
- XXI. **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)
- XXII. **8 March 2010 Elazig-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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- XXIII. **Importance of Degrading Behavior for Seismic Performance Evaluation of Simple Structural Systems**  
ERBERİK M. A.  
JOURNAL OF EARTHQUAKE ENGINEERING, cilt.15, sa.1, ss.32-49, 2011 (SCI-Expanded)
- XXIV. **Seismic Risk Assessment of Masonry Buildings in Istanbul for Effective Risk Mitigation**  
Erberik M. A.  
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- XXV. **Fragility-based assessment of typical mid-rise and low-rise RC buildings in Turkey**  
Erberik M. A.  
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- XXVI. **Generation of fragility curves for Turkish masonry buildings considering in-plane failure modes**  
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- XXVII. **Vulnerability of Turkish low-rise and mid-rise reinforced concrete frame structures**  
AY B. Ö., ERBERİK M. A.  
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- XXVIII. **Fragility analysis of flat-slab structures**  
Erberik M. A., Elnashai A.  
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- XXIX. **Energy-based hysteresis and damage models for deteriorating systems**  
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- XXX. **Seismic energy dissipation in deteriorating systems through low-cycle fatigue**

- Erberik A., Sucuoglu H.  
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- XXXI. **Statistical evaluation of the damage potential of earthquake ground motions**  
Sucuoglu H., Yucemen S., Gezer A., Erberik A.  
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- XXXII. **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.  
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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.  
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## 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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- II. **TÜRKİYE BİNA DEPREM YÖNETMELİĞİNE UYGUNLUK ENDEKSİNİN HESAPLANMASI**  
Ünal B., Erberik M. A., Askan Gündoğan A.  
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- 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**  
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- VI. **Türkiye'deki Yığma Binaların Genel Özelliklerine Dair Bir Çalışma**  
Eroğlu Azak T., Erberik M. A.  
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- VII. **Energy-Based Evaluation of RC Frame Structures**

Azizi M., Erberik M. A.

5th International Conference on Earthquake Engineering and Seismology, Ankara, Türkiye, 8 - 11 Ekim 2019, ss.1-14

- VIII. **Seismic Performance of Masonry Buildings Subjected to Synthetic Ground Motions**  
Koç A. B., Erberik M. A., Askan Gündoğan A., Karım Zadeh Naghshneh S.  
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- IX. **Comparison of energy-based responses of structural systems to real and simulated ground motion records**  
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- X. **Comparison energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**  
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- 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 Naghshneh 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.  
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- XIV. **Predefined damage patterns for limit analysis on non-engineered masonry buildings**  
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- XV. **A comparative study on the seismic performances of unreinforced and confined masonry buildings**  
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- XVI. **THE COMPARISON OF DIFFERENT FRAGILITY CURVE GENERATION TECHNIQUES TO ESTIMATE OBSERVED DAMAGE DISTRIBUTIONS**  
Karım Zadeh Naghshneh 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.  
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- 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., Karımzadeh S., Kilic N., Sisman F. N., Yakut A.  
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- issues and challenges towards full Seismic Risk Analysis , Aix-En-Provence, Fransa, 14 - 16 Mayıs 2018, ss.1-2
- XXIX. FROM SEISMIC SOURCES TO ENGINEERING DEMANDPARAMETERS: AN INTERDISCIPLINARY FRAMEWORK FORESTIMATION OF SEISMIC LOSSES IN URBAN REGIONS**  
Askan A., Asten M., Erberik M. A., Erkmen C., Karimzadeh S., Kılıç N., Şişman N., Yakut A.  
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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.  
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Türkiye, 11 - 13 Ekim 2017
- 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. Kırılganlık 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**  
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4. International Conference on Earthquake Engineering and Seismology (4ICEES), Eskişehir, Türkiye, 11 - 13 Ekim 2017
- XXVIII. AN INVESTIGATION ON THE USE OF SIMULATED RECORDS IN DERIVATION OF FRAGILITY CURVES FOR RC BUILDINGS IN**  
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Atıf (WoS): 581  
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