

## Doç.Dr. ZEHRA ERTUĞRUL

### Kişisel Bilgiler

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### Araştırma Alanları

Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Mühendislik Bilimleri Bölümü, 2020 - Devam Ediyor

Doç.Dr., Ted Üniversitesi, Mühendislik Ve Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - 2020

Doç.Dr., Middle East Technical University, Engineering Faculty, Civil Engineering, 2013 - 2014

Yrd.Doç.Dr., Middle East Technical University, Engineering Faculty, Civil Engineering, 2008 - 2013

Öğretim Görevlisi, Middle East Technical University, Engineering Faculty, Civil Engineering, 2007 - 2008

Öğretim Görevlisi, Middle East Technical University, Engineering Faculty, Civil Engineering, 2006 - 2007

### Verdiği Dersler

Engineering Mechanics I, Lisans, 2020 - 2021

Computing Methods in Engineering, Lisans, 2020 - 2021

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

- I. **On how the ergodic assumption influences seismic risk**  
Cagnan Z.  
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.19, sa.1, ss.1-25, 2021 (SCI İndekslerine Giren Dergi)
- II. **Assessment of Aleatory and Epistemic Uncertainty for Ground-Motion Intensity Measure Prediction in Turkey**  
Cagnan Z., Akkar S.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.109, sa.1, ss.263-283, 2019 (SCI İndekslerine Giren Dergi)
- III. **Seismic behaviour of the old-type gravity load designed deteriorated RC buildings in Cyprus**  
Safkan I., Sensoy S., Cagnan Z.  
ENGINEERING FAILURE ANALYSIS, cilt.82, ss.198-207, 2017 (SCI İndekslerine Giren Dergi)
- IV. **A model for predicting vertical component peak ground acceleration (PGA), peak ground velocity (PGV), and 5% damped pseudospectral acceleration (PSA) for Europe and the Middle East**  
Cagnan Z., Akkar S., Kale O., SANDIKKAYA M. A.  
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.15, sa.7, ss.2617-2643, 2017 (SCI İndekslerine Giren Dergi)
- V. **Numerical models for the seismic assessment of St. Nicholas Cathedral, Cyprus**  
Cagnan Z.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.39, ss.50-60, 2012 (SCI İndekslerine Giren Dergi)
- VI. **A Predictive Ground-Motion Model for Turkey and Its Comparison with Recent Local and Global**

## **GMPEs**

Cagnan Z., Akkar S., Guelkan P.

EARTHQUAKE DATA IN ENGINEERING SEISMOLOGY: PREDICTIVE MODELS, DATA MANAGEMENT AND NETWORKS, cilt.14, ss.39-52, 2011 (SCI İndekslerine Giren Dergi)

### **VII. A Local Ground-Motion Predictive Model for Turkey, and Its Comparison with Other Regional and Global Ground-Motion Models**

Akkar S., Cagnan Z.

BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.100, sa.6, ss.2978-2995, 2010 (SCI İndekslerine Giren Dergi)

### **VIII. Rapid earthquake hazard and loss assessment for Euro-Mediterranean region**

Erdik M., Sesetyan K., Demircioglu M., Hancilar U., Zulfikar C., Cakti E., Kamer Y., Yenidogan C., Tuzun C., Cagnan Z., et al.

ACTA GEOPHYSICA, cilt.58, sa.5, ss.855-892, 2010 (SCI İndekslerine Giren Dergi)

### **IX. The recently compiled Turkish strong motion database: preliminary investigation for seismological parameters**

Akkar S., Cagnan Z., Yenier E., Erdogan O., Sandikkaya M. A. , Gulkan P.

JOURNAL OF SEISMOLOGY, cilt.14, sa.3, ss.457-479, 2010 (SCI İndekslerine Giren Dergi)

### **X. Seismic hazard assessment for Cyprus**

Cagnan Z., TANIRCAN G.

JOURNAL OF SEISMOLOGY, cilt.14, sa.2, ss.225-246, 2010 (SCI İndekslerine Giren Dergi)

### **XI. Development of earthquake lossmap for Europe**

Cagnan Z., ŞEŞETİYAN K., Zulfikar C., DEMİRCİOĞLU M. B. , Kariptas C., Durukal E., Erdik M.

JOURNAL OF EARTHQUAKE ENGINEERING, cilt.12, ss.37-47, 2008 (SCI İndekslerine Giren Dergi)

### **XII. A comparative study of European earthquake loss estimation tools for a scenario in Istanbul**

Strasser F. O. , Bommer J. J. , ŞEŞETİYAN K., ERDİK M. Ö. , Cagnan Z., Irizarry J., Goula X., Lucantoni A., Sabetta F., Bal I. E. , et al.

JOURNAL OF EARTHQUAKE ENGINEERING, cilt.12, ss.246-256, 2008 (SCI İndekslerine Giren Dergi)

### **XIII. Optimizing scheduling of post-earthquake electric power restoration tasks**

Xu N., Guikema S. D. , Davidson R. A. , Nozick L. K. , Cagnan Z., Vaziri K.

EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.36, sa.2, ss.265-284, 2007 (SCI İndekslerine Giren Dergi)

### **XIV. Post-earthquake restoration planning for Los Angeles electric power**

Cagnan Z., Davidson R. A. , Guikema S. D.

EARTHQUAKE SPECTRA, cilt.22, sa.3, ss.589-608, 2006 (SCI İndekslerine Giren Dergi)

## **Diğer Dergilerde Yayınlanan Makaleler**

### **I. Discrete event simulation of the post-earthquake restoration process for electric power systems**

ERTUĞRUL Z., Davidson R. A.

International Journal of Risk Assessment and Management, cilt.7, sa.8, ss.1138-1156, 2007 (Diğer Kurumların Hakemli Dergileri)

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

### **I. Advantages of industry-academia partnerships for the development of professional competences in civil engineering**

Akan O. D. , Bilgin G., ERTUĞRUL Z.

10th International Symposium on Project Approaches in Engineering Education, PAEE 2018 and 15th Active Learning in Engineering Education Workshop, ALE 2018, Brasilia, Brezilya, 28 Şubat - 02 Mart 2018, cilt.8, ss.90-98

- II. Single station sigma for Turkish strong motion stations**  
ERTUĞRUL Z., Akkar S.  
6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2017, Rhodes Island, Yunanistan, 15 - 17 Haziran 2017, cilt.2, ss.4527-4545
- III. Dynamic response of a gothic cathedral in Cyprus**  
ERTUĞRUL Z., Chrysostomou C. Z. , Kyriakides N., Votsis R. A.  
5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2015, Hersonissos, Crete, Yunanistan, 25 - 27 Mayıs 2015, ss.3726-3738
- IV. Computer modelling and seismic performance assessment of a byzantine basilica**  
ERTUĞRUL Z.  
3rd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2011, Corfu, Yunanistan, 25 - 28 Mayıs 2011
- V. Seismic hazard of Eastern Mediterranean region**  
ERTUĞRUL Z., Akkar S.  
9th US National and 10th Canadian Conference on Earthquake Engineering 2010, Including Papers from the 4th International Tsunami Symposium, Toronto, Kanada, 25 - 29 Temmuz 2010, cilt.4, ss.3251-3260
- VI. Optimization of crews in post-earthquake electric power restoration**  
Guikema S., Xu N., Davidson R., Nozick L., ERTUĞRUL Z.  
8th US National Conference on Earthquake Engineering 2006, San Francisco, CA, Amerika Birleşik Devletleri, 18 - 22 Nisan 2006, cilt.7, ss.3727-3736
- VII. Efficient simulation-based discrete optimization**  
Guikema S., Davidson R., Cagnan Z.  
Winter Simulation Conference 2004, Washington, Kiribati, 5 - 08 Aralık 2004, ss.536-544
- VIII. Post-Earthquake Lifeline Service Restoration Modeling**  
ERTUĞRUL Z., Davidson R.  
Proceedings of the Sixth U.S. Conference and Workshop on Lifeline Earthquake Engineering, Long Beach, CA, Amerika Birleşik Devletleri, 10 - 13 Ağustos 2003, ss.255-264

## **Atıflar**

Toplam Atıf Sayısı (WOS):390

h-indeksi (WOS):8