

## Assoc. Prof. Barış Erdil

### Personal Information

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### Education Information

Post Doctorate, Universidade de Minho, Institute For Sustainability And Innovation In Structural Engineering, Portugal  
2015 - 2016

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, İnşaat Mhendisliđi, Turkey 2002 - 2012

Under Graduate, Istanbul University, Mühendislik Fakültesi, İnşaat Mhendisliđi, Turkey 1997 - 2001

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, BEHAVIOUR OF CFRP CONFINED CONCRETE SPECIMENS UNDER TEMPERATURE CYCLES AND SUSTAINED LOADS, Middle East Technical University, Fen Bilimleri Enstitüsü, İnşaat Mhendisliđi, 2012

### Research Areas

Civil Engineering, Structure, Performance of Constructed Facilities, Concrete Structures, Repair and Strengthening in Buildings, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Mühendislik-Mimarlık Fakültesi, İnşaat Mhendisliđi, 2018 - Continues

Assistant Professor, Van Yüzüncü Yil University, Mühendislik-Mimarlık Fakültesi, İnşaat Mhendisliđi, 2013 - 2018

Research Assistant PhD, Van Yüzüncü Yil University, Mühendislik-Mimarlık Fakültesi, İnşaat Mhendisliđi, 2012 - 2013

Research Assistant, Middle East Technical University, Fen Bilimleri Enstitüsü, İnşaat Mhendisliđi, 2002 - 2012

### Professional Experience

Vice Dean, Van Yüzüncü Yil University, 2018 - Continues

Head of Department, Van Yüzüncü Yil University, 2018 - Continues

Deputy Head of Department, Van Yüzüncü Yil University, İnşaat Mühendisliđi, 2013 - 2019

### Courses

Betonarme Binaların Deprem Güvenliđi, Post Graduate, 2017 - 2018

Çelik Yapılar, Under Graduate, 2017 - 2018

Betonarme Yapı Tasarımı, Post Graduate, 2016 - 2017

Yapı Malzemesi, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015  
Betonarme I, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015  
Depreme Dayanıklı Yapı Tasarımı, Under Graduate, 2014 - 2015  
Yapı Mühendisliğinde Bilgisayar Uygulamaları, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015  
Betonarme II, Under Graduate, 2013 - 2014, 2014 - 2015  
Ahşap Yapılar, Under Graduate, 2013 - 2014  
Çelik Yapılar, Under Graduate, 2013 - 2014, 2014 - 2015  
Mesleki İngilizce, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015

## Advising Theses

Erdil B., Yapı denetim kuruluşlarının sorunları ve yapı denetimi sistemindeki sorunlar - Van örneği, Post Graduate, D.GÜNCÜ(Student), 2020  
Akkaya İ., Erdil B., TAŞIMCI SİSTEM PARAMETRELERİ İLE DÜŞÜK VE ORTA YÜKSEKLİKTEKİ BETONARME BİNALARDA ELASTİK PERİYOT HESABI, Post Graduate, A.YİĞİT(Student), 2020  
Erdil B., Betonarme binalar için gerekli güçlendirme perde duvar miktarının hesabı, Post Graduate, Y.GÜNDÜZ(Student), 2019  
Erdil B., Harman Tuğlası ile İnşa Edilmiş Yan Duvarı Boşluklu Yığma Yapıların Düzlem Dışı Davranışlarının Eğilme Masası Yardımı ile Belirlenmesi, Post Graduate, F.Kıpçak(Student), 2018  
Erdil B., MEVCUT BETONARME BİNALARIN MOMENT, KESME KUVVETİ VE EKSENEL YÜK (MVP) ETKİLEŞİM TABANLI YENİ BİR YÖNTEM İLE SİSMİK PERFORMANSLARININ BELİRLENMESİ, Post Graduate, H.Ceylan(Student), 2018  
Erdil B., ÇELİK YÜZEYLERİN İŞLENMESİNİN KAYNAK KALİTESİNE ETKİSİNİN ARAŞTIRILMASI, Post Graduate, G.Barbaros(Student), 2016

## Jury Memberships

Doctorate, Doktora Tez Savunması, Akdeniz Üniversitesi Mühendislik Fakültesi, December, 2017  
Post Graduate, Yüksek Lisans Tez Savunması, Akdeniz Üniversitesi Mühendislik Fakültesi, January, 2017

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **A Detailed Comparison of Preliminary Seismic Vulnerability Assessment Methods for RC Buildings**  
Erdil B., Ceylan H.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.43, pp.711-725, 2019 (Journal Indexed in SCI)
- **MVP interaction based seismic vulnerability assessment of RC buildings**  
Erdil B., Ceylan H.  
GRADEVINAR, vol.71, pp.489-503, 2019 (Journal Indexed in SCI)
- **Effects of Structural Parameters on Seismic Behaviour of Historical Masonry Minaret**  
Erdil B., Tapan M., Akkaya İ., Korkut F.  
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.62, pp.148-161, 2018 (Journal Indexed in SCI)
- **Why RC Buildings Failed in the 2011 Van, Turkey, Earthquakes: Construction versus Design Practices**  
Erdil B.  
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.31, 2017 (Journal Indexed in SCI)
- **Seismic Resistance Evaluation of Traditional Ottoman Timber-Frame Himis Houses: Frame Loadings and Material Tests**  
Aktas Y. D. , AKYÜZ U., TÜRER A., Erdil B., Guchan N. S.  
EARTHQUAKE SPECTRA, vol.30, pp.1711-1732, 2014 (Journal Indexed in SCI)
- **The 23 October 2011 M(w)7.0 Van (Eastern Turkey) Earthquake: Interpretations of Recorded Strong Ground Motions and Post-Earthquake Conditions of Nearby Structures**

Akansel V., Ameri G., Askan A., CANER A., Erdil B., Kale O., Okuyucu D.  
EARTHQUAKE SPECTRA, vol.30, pp.657-682, 2014 (Journal Indexed in SCI)

- **Evaluation of Successful Seismic Bridge Design Practice in Turkey**  
Okuyucu D., Kale O., Erdil B., CANER A., Askan A., Akansel V. H.  
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.28, pp.4-12, 2014 (Journal Indexed in SCI)
- **CFRP-confined concrete columns under different environmental conditions**  
Erdil B., AKYÜZ U., YAMAN İ. Ö.  
MAGAZINE OF CONCRETE RESEARCH, vol.65, pp.731-743, 2013 (Journal Indexed in SCI)
- **Mechanical behavior of CFRP confined low strength concretes subjected to simultaneous heating-cooling cycles and sustained loading**  
Erdil B., AKYÜZ U., YAMAN İ. Ö.  
MATERIALS AND STRUCTURES, vol.45, pp.223-233, 2012 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **2011 Van Earthquakes: Design vs Construction**  
Erdil B.  
Disaster Science and Engineering, vol.4, pp.1-11, 2018 (Refereed Journals of Other Institutions)
- **Dikdörtgen kesitli betonarme perde duvarların taşıma gücü momenti hesabı için basit bir yaklaşım**  
Erdil B.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.23, pp.209-220, 2017 (National Refereed University Journal)
- **A simple approach for the calculation of moment capacity of rectangular shear walls**  
Erdil B.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, pp.209-220, 2017 (Journal Indexed in ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- **Dolgu Duvarların Betonarme Binaların Doğal Titreşim Periyotları Üzerindeki Etkisinin İncelenmesi**  
Yiğit A., Erdil B., Akkaya İ.  
3rd INTERNATIONAL SYMPOSIUM ON NATURAL HAZARDS AND DISASTER MANAGEMENT, Van, Turkey, 25 - 26 October 2019, vol.2, no.2, pp.120-127
- **EFFECT OF MORTAR ON OUT OF PLANE BEHAVIOR OF MASONRY WALLS**  
Kıpçak F., Erdil B., Tapan M.  
5. International Conference on Earthquake Engineering and Seismology (5ICEES), Ankara, Turkey, 8 - 11 October 2019, pp.1-8
- **Effect of Side-Wall Openings on Out-of-plane Behavior of Dry Stack Brick Walls**  
Erdil B., Kıpçak F.  
13th North American Masonry Conference, Salt Lake City, United States Of America, 16 - 19 June 2019, pp.916-924
- **SEISMIC PERFORMANCE EVALUATION USING MVP METHOD**  
Erdil B., Ceylan H.  
International Civil Engineering Architecture Conference, Trabzon, Turkey, 17 - 20 April 2019, pp.1472-1478
- **Comparison of Walk-Down Procedures in Evaluating Seismic Vulnerability of RC Buildings in Turkey**  
Erdil B., Ceylan H.  
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.357-361
- **Zemin-Yapı Etkileşiminde Doğal Titreşim Yöntemiyle Sismik Zayıflık İndisinin Belirlenmesi, Van Örneği**  
Akkaya İ., Özvan A., Tapan M., Erdil B.  
71. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 23 - 27 April 2018, vol.1, no.1, pp.243-244
- **2011 VAN DEPREMLERİNİN ARDINDAN: TASARIM VE UYGULAMA FARKLARI**

Erdil B.

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

• **Behavior of Traditional Timber Frames Under Reverse-Cyclic Loading**

AKTAS ERDEM Y. D. , TURER A., AKYUZ U., Erdil B., GUCHAN N. S.

Tenth Pacific Conference on Earthquake Engineering Building an Earthquake-Resilient Pacific, Sidney, Australia, 6 - 08 November 2015, pp.1

• **A3 Düzensizliğine Sahip Bir Binanın Farklı Temel Durumları Altındaki Davranışı**

Erdil B.

ZEMİN MEKANIĞI VE TEMEL MÜHENDİSLİĞİ 2. ÖZEL KONULU SEMPOZYUMU Teorik ve Uygulamada Yapı Zemin Etkileşimi Sempozyumu, Antalya, Turkey, 24 - 25 April 2014, pp.1

• **Damage from two consecutive earthquakes at city of Van (Turkey)**

Aldemir A., Erdil B., Demirel I., YAKUT A., BİNİCİ B.

10th U.S. National Conference on Earthquake Engineering: Frontiers of Earthquake Engineering, NCEE 2014, Alaska, United States Of America, 21 - 25 July 2014

• **ON THE IMPROVEMENT OF LATERAL LOAD BEHAVIOUR OF VAN ULU MOSQUE MINARET**

Erdil B., Tapan M., Akkaya İ., Korkut F.

2013 INTERNATIONAL VAN EARTHQUAKE SYMPOSIUM, Van, Turkey, 23 - 27 October 2013, vol.1, no.85, pp.165

• **Confinement Effectiveness of CFRP in Axial Members under Various Loading Conditions**

Erdil B., AKYÜZ U., YAMAN İ. Ö.

4th International Conference on Multi-Functional Materials and Structures (MFMS 2013), Bangkok, Thailand, 14 - 17 July 2013, vol.747, pp.277-279

• **Behaviour of CFRP confined low strength concrete columns under temperature changes**

Erdil B., AKYÜZ U., YAMAN İ. Ö.

fib Symposium 2012: Concrete Structures for Sustainable Community, Stockholm, Sweden, 11 - 14 June 2012, pp.307-310

• **Behavior of Timber Frames with Adobe Infill Under Reverse Cyclic Loading**

AKTAS ERDEM Y. D. , TURER A., AKYUZ U., Erdil B., GUCHAN N. S.

XIth International Conference on the Study and Conservation of Earthen Architecture Heritage, Lima, Peru, 22 - 27 April 2012, pp.1

• **Seismic Performance Evaluation of Adilcevaz Pasha (Tugrul Bey) Mosque**

Erdil B., OKUYUCU D.

WCCE-ECCE-TCCE Joint Conference 2; Seismic Protection of Cultural Heritage, Antalya, Turkey, 31 October - 01 November 2011, pp.1

• **A comparative study of force-deformation relationship of FRP-confined concrete columns**

Erdil B., AKYÜZ U., YAMAN İ. Ö. , Irfanoglu A.

3rd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2011, Corfu, Greece, 25 - 28 May 2011

• **Evaluation of Seismic Resistance of Traditional Ottoman Timber Frame "Hımiş" Houses**

AKTAS ERDEM Y. D. , TURER A., AKYUZ U., Erdil B., GUCHAN N. S.

2nd WTA - International PhD Symposium, Brno, Czech Republic, 6 - 07 October 2011, pp.1

• **Karbon Takviyeli Fiber Polimer (CFRP) ile Güçlendirilmiş Silindirik Numunelerin Sünme ve Sıcaklık Değişimleri Altındaki Davranışları**

Erdil B., AKYUZ U., YAMAN İ. Ö.

Ulusal Yapı Mekaniği Toplantısı, Kocaeli, Turkey, 14 - 15 May 2011, pp.1

• **Testing and Seismic Capacity Evaluation of a Typical Traditional Ottoman Timber Frame**

AKTAS ERDEM Y. D. , TURER A., Erdil B., AKYUZ U., Sahin Guchan N.

7th International Conference on Structural Analysis of Historic Constructions, Shanghai, China, 6 - 08 October 2010, pp.629-634

• **Assessment of seismic behavior of traditional timber frame Ottoman Houses: Frame tests**

Aktas Erdem Y. D. , AKYUZ U., Erdil B., TURER A., SAHIN GUCHAN N.

1st International Conference on Structures and Architecture (ICSA), Guimaraes, Portugal, 21 - 23 July 2010, pp.1157-1164

- **Seismic Performance Evaluation of Emir Bayındır Cupola in Ahlat**  
OKUYUCU D., Erdil B.  
Symposium with International Participation on Strengthening and Preserving Historical Buildings and Cultural Heritage, Diyarbakır, Turkey, 15 - 17 October 2009, pp.1
- **Low Strength Concrete Columns Confined with CFRP: Behaviour under Temperature Changes and Loads**  
Erdil B., AKYUZ U., YAMAN I. O.  
The 9th International Symposium on Fiber-Reinforced Polymer Reinforcement for Concrete Structures, Sidney, Australia, 13 - 15 July 2009, pp.1
- **Behaviour of CFRP Reinforced Low-Strength Concretes Subjected to Temperature Changes and Sustained Loads**  
Erdil B., AKYUZ U., YAMAN I. O.  
14th World Conference on Earthquake Engineering, Pekin, China, 12 - 17 October 2008, pp.1

## Expert Reports

- **6. Hd. Tugayı General Ali Ihsan SABİS Kışlasında bulunan atış alanı ve su deposu bölgelerindeki toprak kaymasına ait gözlemsel rapor**  
Özvan A., Tapan M., Erdil B.  
Van Valiliği Yatırım İzleme ve Koordinasyon Başkanlığı, pp.3, Van, 2019
- **2018/174 esas numaralı dosya ve ekleri**  
Özvan A., Erdil B., Üner S., Yeşilova Ç.  
4. ASLİYE HUKUK MAHKEMESİ, pp.2, Van, 2019
- **2018/174 esas numaralı dosya ve ekleri**  
Özvan A., Erdil B., Üner S., Yeşilova Ç.  
4. ASLİYE HUKUK MAHKEMESİ, pp.2, Van, 2019
- **2013/54 esas numaralı dosya ve ekleri**  
Erdil B., Muvafık M., Kemeç S., Akkaya İ., Yeşilova Ç.  
VAN 3. İDARE MAHKEMESİ, pp.25, Van, 2015
- **2013/54 esas numaralı dosya ve ekleri**  
Erdil B., Muvafık M., Kemeç S., Akkaya İ., Yeşilova Ç.  
VAN 3. İDARE MAHKEMESİ, pp.25, Van, 2015
- **2013-359 esas numaralı dosya ve ekleri**  
Erdil B., Muvafık M., Akkaya İ., Kemeç S., Yeşilova Ç.  
VAN 2. İDARE MAHKEMESİ, pp.25, Van, 2015
- **2013-359 esas numaralı dosya ve ekleri**  
Erdil B., Muvafık M., Akkaya İ., Kemeç S., Yeşilova Ç.  
VAN 2. İDARE MAHKEMESİ, pp.25, Van, 2015
- **2012/323 esas numaralı dosya ve ekleri**  
Erdil B., Muvafık M., Akkaya İ., Kemeç S., Yeşilova Ç.  
4. ASLİYE HUKUK MAHKEMESİ, pp.25, Van, 2013
- **2012/323 esas numaralı dosya ve ekleri**  
Erdil B., Muvafık M., Akkaya İ., Kemeç S., Yeşilova Ç.  
4. ASLİYE HUKUK MAHKEMESİ, pp.25, Van, 2013

## Memberships / Tasks in Scientific Organizations

TMMOB İnşaat Mühendisleri Odası, Member, 2017 - Continues  
American Society of Civil Engineers, Member, 2016 - 2017  
Institute of Research Engineers and Doctors, Member, 2013 - 2017

## Scientific Refereeing

Journal of Performance of Constructed Facilities, SCI Journal, November 2019  
Project Supported by Higher Education Institutions, June 2019  
Earthquake Engineering and Engineering Vibration, SCI Journal, May 2019  
Journal of Performance of Constructed Facilities, SCI Journal, March 2019  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, November 2018  
Project Supported by Higher Education Institutions, November 2018  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi , National Scientific Refreed Journal, August 2018  
Journal of Performance of Constructed Facilitie, SCI Journal, August 2018  
13. Ulusal Kimya Mühendisliği Kongresi, Other Journals, April 2018  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, August 2017  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, December 2016  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, April 2016  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, March 2015  
Project Supported by Higher Education Institutions, July 2014  
Project Supported by Higher Education Institutions, July 2013

## Scientific Consultations

Özkanoglu Müh. Pet. İnş. İth. İhr. ve Tic. A.Ş., Scientific Consultancy, Van Yüzüncü Yıl University, Mühendislik-Mimarlık Fakültesi, İnşaat Mhendisliği, Turkey, 2017 - 2017

## Tasks In Event Organizations

Erdil B., 3rd International Natural Disasters and Disaster Management Symposium (ISHAD2019), Scientific Congress, Van, Turkey, Ekim 2019

## Citations

Total Citations (WOS):72  
h-index (WOS):6

## Scholarships

Yurt Dışı Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2015 - Continues