

Asst. Prof. BARBAROS ATMACA

Personal Information

Birthyear: 1984

Place of birth: ÇORUM - MERKEZ

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Education Information

2012 - 2018	Doctorate, Karadeniz Technical University, Fen Bilimleri, İnşaat Mühendisliği, Turkey
2009 - 2012	Post Graduate, Karadeniz Technical University, Fen Bilimleri, İnşaat Mühendisliği, Turkey
2004 - 2009	Under Graduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

2018	ÖNGERİLMELİ KIRIŞLI KÖPRÜ ÜSTYAPISININ HESAP VE TASARIMININ İRDELENMESİ VE BİLGİSAYAR PROGRAMININ GELİŞTİRİLMESİ, Karadeniz Technical University, Fen Bilimleri, İnşaat Mühendisliği, Doctorate
2012	Kablolu Köprülerin Yapım Aşamasına Göre Analizi, Karadeniz Technical University, Fen Bilimleri, İnşaat Mühendisliği, Post Graduate

Research Areas

Civil Engineering, Structure, Earthquake Engineering, Concrete Structures, Engineering and Technology

Academic Titles / Tasks

2019 - Continues	Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği
2010 - 2019	Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği

Courses

2019 - 2020	Betonarme Projelerin Bilgisayar Yardımıyla Çözümü, Under Graduate
2018 - 2019	Bilgisayar Destekli Çizim, Under Graduate
2018 - 2019	Computer-Aided Drawing, Under Graduate
2018 - 2019	Sayısal Çözümleme, Under Graduate
2018 - 2019	Yapı Statiği, Under Graduate
2018 - 2019	Structural Elements, Under Graduate

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

- I. **Field Investigation on the Performance of Mosques and Minarets during the Elazig-Sivrice Earthquake**
Atmaca B., Demir S., Günaydın M., Altunışık A. C. , Hüsem M., Ateş Ş., Adanur S., Angin Z.
Journal Of Performance Of Constructed Facilities, vol.34, no.40201201, pp.1-10, 2020 (Journal Indexed in SCI Expanded)
- II. **Optimization of cables size and prestressing force for a single pylon cable-stayed bridge with Jaya algorithm**
ATMACA B., DEDE T., Grzywinski M.
STEEL AND COMPOSITE STRUCTURES, vol.34, pp.853-862, 2020 (Journal Indexed in SCI)
- III. **Determination of minimum depth of prestressed concrete I-Girder bridge for different design truck**
ATMACA B.
COMPUTERS AND CONCRETE, vol.24, pp.303-311, 2019 (Journal Indexed in SCI)
- IV. **Camber calculation of prestressed concrete I-Girder considering geometric nonlinearity**
ATMACA B., ATEŞ Ş.
COMPUTERS AND CONCRETE, vol.19, pp.1-6, 2017 (Journal Indexed in SCI)
- V. **Nonlinear dynamic analysis of base isolated cable-stayed bridge under earthquake excitations**
ATMACA B., Yurdakul M., ATEŞ Ş.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.66, pp.314-318, 2014 (Journal Indexed in SCI)
- VI. **Effects of soil-structure interaction on construction stage analysis of highway bridges**
ATEŞ Ş., ATMACA B., Yildirim E., Demiroz N. A.
COMPUTERS AND CONCRETE, vol.12, pp.169-186, 2013 (Journal Indexed in SCI)
- VII. **Construction stage analysis of three-dimensional cable-stayed bridges**
ATMACA B., ATEŞ Ş.
STEEL AND COMPOSITE STRUCTURES, vol.12, pp.413-426, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **THE SIZE OPTIMIZATION OF STEEL BRACED BARREL VAULT STRUCTURE BY USING RAO-1 ALGORITHM**
Dede T., Grzywiński M., Rao R. V. , Atmaca B.
Sigma Journal of Engineering and Natural Sciences, vol.38, pp.1415-1425, 2020 (Journal Indexed in ESCI)
- II. **Lessons learned from the past earthquakes on building performance in Turkey**
Atmaca B., Demir S., Günaydın M., Altunışık A. C. , Hüsem M., Ateş Ş., Adanur S., Angin Z.
Journal of Structural Engineering & Applied Mechanics, vol.3, pp.61-84, 2020 (Refereed Journals of Other Institutions)
- III. **Optimization of post-tensioning forces in stay-cables of cable-stayed bridges**
ATMACA B., Grzywinski M., DEDE T.
Construction of optimized energy potential, vol.8, pp.69-76, 2019 (International Refereed University Journal)
- IV. **THE EFFECT OF DEPTH OF FUSION ON THE BEHAVIOR OF STEEL WELDED JOINTS**
UZUNALI U. Y. , ÇUVALCI H., ATMACA B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, pp.941-952, 2019 (Journal Indexed in ESCI)
- V. **Comparison of Dynamic Characteristics of Prestressed and Reinforced Concrete Beams**
ATMACA B.
DÜZCE ÜNİVERSİTESİ BİLİM VE TEKNOLOJİ DERGİSİ, vol.7, pp.37-44, 2019 (National Refereed University Journal)
- VI. **THE MOST APPROPRIATE EARTHQUAKE RECORD GROUPS FOR DYNAMIC ANALYSIS OF A BUILDING**
ATMACA B., ERGÜN M., ATEŞ Ş.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.36, pp.1047-1079, 2018 (Journal Indexed in ESCI)
- VII. **The Effect of Strand Configuration on Stress Distribution and Debonding Parameters of Prestressed**

Girder After Detensioning

ATMACA B., ATEŞ Ş.

DÜZCE ÜNİVERSİTESİ BİLİM VE TEKNOLOJİ DERGİSİ, vol.6, pp.401-408, 2018 (National Refreed University Journal)

VIII. EFFECTS OF STRAND CONFIGURATION ON PRE-TENSIONED I-GIRDERS

ATMACA B., ATEŞ Ş., Gunaydin M., ALTUNIŞIK A. C.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.36, pp.179-190, 2018 (Journal Indexed in ESCI)

IX. Determination of bearing type effect on elastomeric bearing selection with SREI-CAD

ATMACA B., ATEŞ Ş.

ADVANCES IN COMPUTATIONAL DESIGN, vol.2, pp.43-56, 2017 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **The effect of post-tensioning forces of stay-cable on the structural behavior of cable-stayed bridge**
ATMACA B.
Uluslararası Bilim, Teknoloji ve Sosyal Bilimlerde Güncel Gelişmeler Sempozyumu, Ankara, Turkey, 20 - 22 December 2019, pp.1-6
- II. **Temperlenmiş Martenzitik Çelik Kaynaklı Bağlantıların Mekanik Özelliklerine Tek Taraflı ve Çift Taraflı Kaynağın Etkisi**
ÇUVALCI H., ATMACA B., UZUNALI U. Y. , Demir S.
XI. Ulusal Kaynak Kongre ve Sergisi, Ankara, Turkey, 15 - 16 November 2019, pp.188-193
- III. **Temperlenmiş Martensitik Çelik Kaynaklı Bağlantıların Mekanik Özelliklerine Tek Taraflı ve Çift Taraflı Kaynağın Etkisi**
ÇUVALCI H., UZUNALI U. Y. , ATMACA B., DEMİR S.
Kaynak Teknolojisi XI. Ulusal Kongre ve Sergisi, Ankara, Turkey, 15 - 16 November 2019, vol.-
- IV. **Öngerilmeli Kirişli Köprü Üstyapısının Hesap ve Tasarımını Gerçekleştiren Bilgisayar Programı**
ATMACA B., ATEŞ Ş.
4. Köprüler ve Viyadükler Sempozyumu, Ankara, Turkey, 1 - 02 November 2019, pp.1-10
- V. **Improvement of Earthquake Performance of Tall Building with Using Diagonals**
ATMACA B., BAŞAR M., ATEŞ Ş.
International Science and Engineering Applications Symposium on Hazards 2019, Karabük, Turkey, 25 - 27 September 2019, pp.21-29
- VI. **Cables Size Optimization of Cable-Stayed Bridge**
ATMACA B., DEDE T., Grzywinski M., SELEJDAK J.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.431-439
- VII. **Determination of Mechanical Properties for Welded Steel Joints**
UZUNALI U. Y. , ÇUVALCI H., ATMACA B., DEMİR S.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, vol.-
- VIII. **The Effect of Depth of Fusion on the Displacement of Steel Welded Joints**
UZUNALI U. Y. , ÇUVALCI H., ATMACA B.
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.150
- IX. **Nonlinear Modal Analysis of Prestressed Girder After Detensioning**
ATMACA B., ATEŞ Ş.
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.134
- X. **The Effect of Strand Configuration on Stress Distribution and Debonding Parameters of Prestressed**

Girder After Detensioning

ATMACA B., ATEŞ Ş.

International Multidisciplinary Congress of Eurasia, Roma, Italy, 23 - 25 August 2017, pp.536

- XI. **The Effect of Weld Penetration on the Strength of Tempered Martensite and Thermomechanically Rolled Steel Welded Joints**
UZUNALI U. Y., ÇUVALCI H., ATMACA B.
International Multidisciplinary Congress of Eurasia, Roma, Italy, 23 - 25 August 2017, pp.1
- XII. **The Effect of Strand Configuration on Stress Distribution and Debonding Parameters of Prestressed Girder After Detensioning**
ATMACA B., ATEŞ Ş.
International Multidisciplinary Congress of Eurasia, Roma, Italy, 23 - 25 August 2017, pp.1
- XIII. **Camber Calculation of Prestressed Concrete Girder After Detensioning**
ATMACA B., ATEŞ Ş.
International Conference on Advances and Innovations in Engineering, Elazığ, Turkey, 10 - 12 May 2017, pp.398-401
- XIV. **Effects of Strand Configuration on Pretensioned I-Girder After Detensioning**
ATMACA B., ATEŞ Ş., GÜNAYDIN M., ALTUNIŞIK A. C.
INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING, Antalya, Turkey, 19 October - 24 November 2016, pp.373
- XV. **UNİFORM YER HAREKETLERİNE MARUZ EĞİK ASKILI KÖPRÜNÜN DİNAMİK DAVRANIŞI**
YURDAKUL M., TONYALI Z., ATMACA B., ATEŞ Ş.
Mühendislikte Yeni Teknolojiler Sempozyumu, Bayburt, Turkey, 22 - 25 October 2015, pp.67
- XVI. **MESNETLERİNDEN FARKLI YER HAREKETLERİNE MARUZ KABLOLU KÖPRÜLERDE KABLO DAVRANIŞLARININ İNCELENMESİ**
TONYALI Z., ATMACA B., YURDAKUL M., ATEŞ Ş.
Mühendislikte Yeni Teknolojiler Sempozyumu, Bayburt, Turkey, 22 - 25 October 2015, pp.56-66
- XVII. **Dynamic behaviour of cables of cable-stayed bridge isolated with SCFP placed under pylon**
ATMACA B., Yurdakul M., ATEŞ Ş.
Advances in Structural Engineering and Mechanics (ASEM 15), Incheon, South Korea, 25 - 29 August 2015, pp.11
- XVIII. **Köprülerde Kullanılan Kauçuk Mesnetlerin Hesap ve Tasarım Yazılımı**
ATMACA B., ATEŞ Ş., ALTUNIŞIK A. C.
3. Köprüler ve Viyadükler Sempozyumu, Bursa, Turkey, 8 - 10 May 2015, vol.1, no.1, pp.1-10
- XIX. **The effects of seismic isolation on the dynamic behavior of cable-stayed bridges**
ATMACA B., YURDAKUL M., ATEŞ Ş.
2nd International Balkan Conference on Challenges of Civil Engineering, Tiran, Albania, 23 - 25 May 2013, pp.8
- XX. **Kablolu Köprülerin Yapım Aşamasına Göre Analizi**
ATMACA B., ATEŞ Ş., ALTUNIŞIK A. C.
2. Köprüler ve Viyadükler Sempozyumu, Eskişehir, Turkey, 28 - 30 September 2011, pp.73

Scientific Refereeing

May 2019	International Journal of Civil Engineering, SCI Journal
February 2019	Doğal Afetler ve Çevre Dergisi, National Scientific Refreed Journal
November 2018	Advances in Structural Engineering, SCI Journal
August 2018	Advances in Structural Engineering, SCI Journal
November 2017	EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, SCI Journal
November 2017	Structural Engineering International, SCI Journal
October 2017	INTERNATIONAL JOURNAL OF STEEL STRUCTURES, SCI Journal
July 2017	PLOS ONE, SCI Journal

Mobility Activity

2019 - 2019

Post Doc, Post Doc, Czestochowa University of Technology, Poland

Invited Congress and Symposium Activities

2019	3 rd International Conference on Advanced Engineering Technologies (ICADET) , Session Moderator, Bayburt, Turkey
2017	IV. International Multidisciplinary Congress of Eurasia (IMCOFE), Attendee, Rome, Italy
2017	International Conference on Advances and Innovations in Engineering, Attendee, Elazığ, Turkey
2016	INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING, Attendee, Antalya, Turkey
2015	Mühendislikte Yeni Teknolojiler Sempozyumu, Attendee, Bayburt, Turkey
2015	Advances in Structural Engineering and Mechanics, Attendee, Incheon, South Korea
2015	3. Köprüler ve Viyadükler Sempozyumu, Attendee, Bursa, Turkey
2013	2 nd International Balkan Conference on Challenges of Civil Engineering, Attendee, Tiran, Albania
2011	2. Köprüler ve Viyadükler Sempozyumu, Attendee, Eskişehir, Turkey

Citations

- I. Total Citations (WOS): 28
- II. h-index (WOS): 3