

## Assoc. Prof. FUAT ARAS

### Personal Information

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### Education Information

Doctorate, Boğaziçi Üniversitesi, Fen Bilimleri Ens., İnşaat Müh. Böl., Turkey 2001 - 2007

Post Graduate, Boğaziçi Üniversitesi, Fen Bilimleri Ens., İnşaat Müh. Böl., Turkey 1998 - 2001

Under Graduate, İstanbul Teknik Üniversitesi, İnşaat Fak., İnşaat Müh. Böl., Turkey 1996 - 1998

### Dissertations

Doctorate, Earthquake Protection of Beylerbeyi Palace by Reversible Mixed Technologies, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Müh. Böl., 2007

Post Graduate, Nonlinear Response Analysis of Retrofitted Structures by Different Strategies, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Müh., 2001

### Research Areas

Civil Engineering, Structure, Structural Engineering, Timber Structures, Performance of Constructed Facilities, Earthquake Engineering, Masonry Structures, Architecture, Building Information, Renovation, History of Architecture and Restoration, Restoration, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, İstanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Civil Engineering Department, 2015 - Continues

Assistant Professor, İstanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Civil Engineering Department, 2012 - 2015

Assistant Professor, Anadolu University, Faculty Of Engineering And Architecture, Department Of Civil Engineering, 2008 - 2009

Lecturer, Anadolu University, İnşaat Müh. Böl., 2002 - 2008

### Professional Experience

Vice Dean, İstanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Civil Engineering Department, 2017 - 2019

Head of Department, İstanbul Medeniyet University, Faculty of Engineering and Natural Sciences , Civil Engineering Department, 2012 - 2013

### Courses

Yapı Dinamiği, Under Graduate, 2015 - 2016

Betonarme I, Under Graduate, 2014 - 2015  
Yapı Tasarımında Aktif ve Pasif Kontrol, Post Graduate, 2013 - 2014  
Reinforced Concrete I, Under Graduate, 2007 - 2008  
Statics, Under Graduate, 2007 - 2008  
Mechanics of Materials, Under Graduate, 2007 - 2008  
Reinforced Concrete II, Under Graduate, 2006 - 2007

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

- **Investigation of effects of dynamic loads in metro tunnels during construction and operation on existing buildings**  
NAMLI M., ARAS F.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.13, 2020 (Journal Indexed in SCI)
- **Progressive Damage Analyses of Masonry Buildings by Dynamic Analyses**  
ARAS F., Akbas T., Eksi H., Ceribasi S.  
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, 2020 (Journal Indexed in SCI)
- **Monitoring the dynamic properties of a nine-story reinforced concrete building during its demolition**  
ARAS F.  
STRUCTURAL CONTROL & HEALTH MONITORING, 2019 (Journal Indexed in SCI)
- **Investigation of Effects of Infill Walls in Reinforced Concrete Buildings with Full-Scaled Experiments**  
ARAS F.  
TEKNIK DERGI, vol.29, pp.8651-8667, 2018 (Journal Indexed in SCI)
- **Seismic Performance of Traditional Stone Masonry Dwellings under Canakkale Seismic Sequences**  
ARAS F., DUZCI E.  
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.32, 2018 (Journal Indexed in SCI)
- **Laboratory Tests and Vibration Surveys for the Mechanical Properties of Infill Walls**  
ARAS F.  
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.32, 2018 (Journal Indexed in SCI)
- **MODAL TESTING OF AN ISOLATED OVERPASS BRIDGE IN ITS CONSTRUCTION STAGES**  
ARAS F.  
BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.13, pp.67-76, 2018 (Journal Indexed in SCI)
- **Ambient and forced vibration testing with numerical identification for RC buildings**  
ARAS F.  
EARTHQUAKES AND STRUCTURES, vol.11, pp.809-822, 2016 (Journal Indexed in SCI)
- **Frequency variation in construction stages and model validation for steel buildings**  
ARAS F.  
STEEL AND COMPOSITE STRUCTURES, vol.22, pp.647-662, 2016 (Journal Indexed in SCI)
- **Investigation of mechanical properties of masonry in historic buildings**  
Aras F., Altay G.  
GRADEVINAR, vol.67, pp.461-469, 2015 (Journal Indexed in SCI)
- **Seismic evaluation and structural control of the historical Beylerbeyi Palace**  
ARAS F., Altay G.  
STRUCTURAL CONTROL & HEALTH MONITORING, vol.22, pp.347-364, 2015 (Journal Indexed in SCI)
- **TIMBER-FRAMED BUILDINGS AND STRUCTURAL RESTORATION OF A HISTORIC TIMBER PAVILION IN TURKEY**  
Aras F.  
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol.7, pp.403-415, 2013 (Journal Indexed in SCI)
- **Experimental and numerical modal analyses of a historical masonry palace**  
ARAS F., Krstevska L., Altay G., Taskov L.  
CONSTRUCTION AND BUILDING MATERIALS, vol.25, pp.81-91, 2011 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Innovative Technologies for the Protection of Historical Structures against Earthquakes**  
ARAS F.  
ICONARP INTERNATIONAL JOURNAL OF ARCHITECTURE AND PLANNING, vol.3, pp.12-24, 2015 (Journal Indexed in ESCI)
- **Assessment of a Steel-based Solution for the Refurbishment of a Historical Palace**  
ARAS F.  
Steel Structures, Design and Research, pp.169-175, 2010 (Refereed Journals of Other Institutions)
- **Damage Assessment and Mortar Identification in Beylerbeyi Palace**  
ARAS F.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, no.2, pp.211-226, 2010 (International Refereed University Journal)

## Book & Book Chapters

- **Earthquake Protection of Beylerbeyi Palace by Reversible Technologies**  
ARAS F.  
Vdm, Verlag Publishing House, Berlin, 2009

## Refereed Congress / Symposium Publications in Proceedings

- **Use of AVS to Determine the Dynamic Modes of an Overpass Bridge in Istanbul**  
ARAS F.  
13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 September 2018, vol.1, no.1, pp.1-6
- **Çelik Binalarda Modal Özelliklerin Değişiminin Yapım Süresince İzlenmesi**  
ARAS F.  
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 October 2017, vol.1, no.1, pp.10-18
- **Betonarme Bir Yapıda Çevresel Ve Kuvvet Etkisinde Titreşim Analizleri**  
ARAS F.  
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 October 2017, vol.1, no.1, pp.1-10
- **Dynamic Testing in Reinforced Concrete Buildings**  
ARAS F.  
International Conference in Civil Engineering, Hanoi, Vietnam, 08 May 2017, pp.1-6
- **Performance Comparison of Two Retrofit Shear Wall Forms, Complete and Partial Fill of RC Frame Gaps**  
ARAS F.  
ACE2016, Advances in Civil Engineering, İstanbul, Turkey, 21 September 2016, vol.1, no.1, pp.1-9
- **Mechanical Properties of the Partition Walls in Typical Residential Buildings Located in Istanbul**  
ARAS F., Koç E.  
ACE2016, Advances in Civil Engineering, İstanbul, Turkey, 21 September 2016, vol.1, no.1, pp.1-11
- **Operational Modal Analysis to Confirm the Numerical Model of a Reinforced Concrete Building**  
ARAS F.  
6th Annual International Conference on Civil Engineering, Atina, Greece, 20 June 2016, pp.1-10
- **Betonarme bir yapıda bölme duvarların etkilerinin incelenmesi**  
ARAS F.  
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, İzmir, Turkey, 14 October 2015, vol.1, no.1, pp.1-10
- **Proposal of Base Isolation for the Earthquake Safety of a Historical Masonry Palace**  
ARAS F., Altay G.  
The Third Conference on Smart Monitoring, Assessment and Rehabilitation of Structures, Antalya, Turkey, 07 September 2015, vol.1, no.1, pp.1-8
- **The Importance of the Validation of Numerical Models with the Experimental Modal Analysis**

ARAS F.

International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 May 2015, vol.1, no.1, pp.1488-1495

- **Innovative Technologies For The Protection Of Historical Structures Against Earthquakes**

ARAS F.

International Congress of Architecture, Innovative Approaches in Architecture and Planning, Konya, Turkey, 20 November 2014, vol.2, no.1, pp.459-470

- **Characterization of Mortar in Historical Beylerbeyi Palace**

ARAS F., Savran S.

International Conference on Conservation of Stone and Earthen Architectural Heritage, Kongju, South Korea, 20 May 2014, vol.1, no.1, pp.172-178

- **Türkiye Ahşap Yapı Medeniyeti ve Tarihi Ahşap Yapıların Korunması**

ARAS F.

Uluslararası Medeniyet Kongresi, Medeniyetlerin dünü, bugünü ve yarını, İstanbul, Turkey, 17 January 2014, pp.1-12

- **Osmanlı Medeniyetinde Su Yapıları (İstanbul Örneği)**

BİÇKİCİ ARIKAN B., ARAS F.

Uluslararası Medeniyet Kongresi, İstanbul, Turkey, 17 January 2014, pp.1

- **İstanbul'un Kültürel Mirası ve Maruz Kaldığı Tehlikeler**

ARAS F.

XVII. Ortaçağ-Türk Kazıları ve Sanat Tarihi Araştırmaları Sempozyumu, İstanbul, Turkey, 01 October 2013, pp.1-13

- **Tarihi Yığma Binalara Uygulanan Yapısal Restorasyonların Bina Dinamik Özelliklerine Etkileri**

ARAS F.

2. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Hatay, Turkey, 01 September 2013, pp.1-12

- **Historical Aqueducts Of Istanbul And Dynamic Analysis Of Paşa Kemerli Aqueduct**

BİÇKİCİ ARIKAN B., ARAS F.

SE-50EEE, International Conference on Earthquake Engineering, Skopje, Macedonia, 29 May 2013, pp.1

- **Comparison of the Turkish Earthquake Code Methodology for the Assessment of Existing Masonry Buildings to Fema-356 Methodology**

ARAS F.

SE-50EEE, International Conference on Earthquake Engineering, Macedonia, 01 May 2013, pp.176

- **Assessment of Historical Masonry Buildings in Istanbul**

ARAS F.

10th International Congress on Advances in Civil Engineering, Turkey, 01 November 2012, vol.1, no.1

- **Nonlinear Pushover Analysis of a Historical Masonry Structure**

ARAS F.

9th International Congress on Advances in Civil Engineering, Turkey, 01 September 2010

- **Assessment of a Steel-Used Solution for the Rehabilitation of a Historical Palace**

ARAS F.

International Symposium, Steel Structures: Culture & Sustainability, Turkey, 01 September 2010, pp.273-282

- **Comparison of Different Retrofit Strategies by Performance Based Design Procedure**

ARAS F.

1st International Structural Specialty Conference, Calgary, Alberta, Canada, 2006., Canada, 01 May 2006

- **Nonlinear Response Analysis of Different Retrofit Strategies**

ARAS F., Altay G.

Improvement of Buildings' Structural Quality by New Technologies, Austria, 01 January 2005, pp.165-174

## Supported Projects

ARAS F., TUBITAK Project, Betonarme Yapılarda Titreşim Analizleri ile Hasar Tespiti, 2017 - Continues

OKTAY A. B. , ARAS F., Project Supported by Higher Education Institutions, İstanbul Kalkınma Ajansı Tarafından

Desteklen AFETLER SONRASINDA UZMAN DOKTORLARIN EN HIZLI SEKILDE İHTİYAÇ DUYULAN HASTANEYE

ÇEVİRİM İÇİ YÖNLENDİRİLMELERİ Teşvik Projesi, 2014 - Continues

ARAS F., AKBAŞ T., ÇERİBAŞI S., Project Supported by Higher Education Institutions, 5 Uluslararası Deprem

Mühendisliği ve Sismoloji Konferansına katılım, 2019 - 2019  
ARAS F., TUFAN T., Project Supported by Higher Education Institutions, 2. Uluslararası Yaşam ve Mühendislik Bilimleri Konferansına Katılım, 2019 - 2019  
ARAS F., Project Supported by Higher Education Institutions, Uluslar arası ACE2018 konferansına katılım, 2018 - 2018  
ARAS F., Project Supported by Higher Education Institutions, 4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansına Katılım, 2017 - 2017  
ARAS F., Project Supported by Higher Education Institutions, Betonarme Binalarda Gerçekleştirilen Dinamik Deneyler, 2017 - 2017  
ARAS F., TUBITAK Project, Betonarme Binalarda Yağma Duvar Etkilerinin Yapı Dinamik Özelliklerine Etkilerinin Tam Ölçekli ve Hasarlı Deneylerde Araştırılması, 2015 - 2017  
TÜRÜT A., AKDENİZ DURAN E., ÖZKAN M. A. , SÖĞÜT S., OKTAYA B. , ARAS F., GENÇ İ., AKTAŞ Ö., GEREN I. N. , KURT H., et al., Project Supported by Higher Education Institutions, Fen Bilimleri Enstitüsü Disiplinler Arası Lisansüstü Araştırma Laboratuvarlarının Kurulması, 2013 - 2016  
ARAS F., ALTAY G., Project Supported by Higher Education Institutions, Tarihi yağma bir sarayın deprem güvenliği için taban yalıtımının önerilmesi, 2015 - 2015  
ARAS F., Project Supported by Higher Education Institutions, Tübitak tarafından desteklenen Betonarme yapılarda bölme duvarların yapıların dinamik davranışlarına etkilerinin tam ölçekli ve hasarlı deneylerle araştırılması isimli projeyi teşvik projesi, 2015 - 2015  
ARAS F., Project Supported by Higher Education Institutions, Betonarme Binalar için Uygulanan Güçlendirme Tekniklerinin Etkilerinin Araştırılması, 2013 - 2015  
ARAS F., Project Supported by Higher Education Institutions, Tarihi Yapıların Depreme Karşı Korunması için Yenilikçi Teknolojiler, 2014 - 2014  
ARAS F., SAVRAN S., Project Supported by Higher Education Institutions, Güney Kore'de düzenlenen "taş ve toprak mimarı mirasının korunması üzerine uluslararası konferans" isimli bilimsel etkinliğe katılım, 2014 - 2014  
ARAS F., Project Supported by Higher Education Institutions, 2. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı'na katılım, 2013 - 2013  
ARAS F., Project Supported by Higher Education Institutions, Uslar Arası Deprem Mühendisliği Konferansına Katılım, 2013 - 2013  
ARAS F., Project Supported by Higher Education Institutions, ACE 2012 (10th International Congress on Advances in Civil Engineering) sempozyumuna ve beraberinde yapılan Concrete Bridge Workshop'a katılım, 2012 - 2013

## Scientific Refereeing

Bulletin of Earthquake Engineering, SCI Journal, January 2014  
Bulletin of Earthquake Engineering, SCI Journal, October 2013  
Construction and Building Materials, SCI Journal, January 2011

## Invited Congress and Symposium Activities

Steel Structures: Culture & Sustainability, Session Moderator, İstanbul, Turkey, 2010

## Citations

Total Citations (WOS):88  
h-index (WOS):4