

## Asst. Prof. SERKAN ZEREN

### Personal Information

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### Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Turkey 2006 - 2014

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Dinamiği, Titreşim Ve Akustiği (YI), Turkey 2003 - 2006

Under Graduate, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1997 - 2003

### Dissertations

Doctorate, Dönen Visko-Elastik Çubukların Dinamiği, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2014

Post Graduate, İki sürekli sistemden oluşan bir birleşik sistemin dinamik incelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Dinamiği, Titreşim Ve Akustiği (YI), 2006

### Research Areas

Mechanical Engineering, Machine Theory and Dynamics, Machine Dynamics, Mechatronics, Mechanical Vibrations, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2014 - Continues

Lecturer, İstanbul Arel Üniversitesi, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, 2013 - 2014

Research Assistant, Yeditepe Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2007 - 2013

### Advising Theses

ZEREN S., Bir arazi aracında aktif viraj denge çubuğunun kontrolü, Post Graduate, M.ÖZCÜ(Student), 2018

ZEREN S., Deneysel veriler ve sonlu elemanlar metodu kullanarak lastik şok emicinin darbe davranışının analizi, Post Graduate, E.KUTLU(Student), 2017

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

- Alternative approach for the derivation of an eigenvalue problem for a Bernoulli-Euler beam carrying a single in-span elastic rod with a tip-mounted mass

Gurgoze M., Zeren S.

STRUCTURAL ENGINEERING AND MECHANICS, vol.53, pp.1105-1126, 2015 (Journal Indexed in SCI)

● **On the dynamics of rotating, tapered, visco-elastic beams with a heavy tip mass**

Zeren S., Gurgoze M.

STRUCTURAL ENGINEERING AND MECHANICS, vol.45, pp.69-93, 2013 (Journal Indexed in SCI)

● **The influences of both offset and mass moment of inertia of a tip mass on the dynamics of a centrifugally stiffened visco-elastic beam**

Gurgoze M., Zeren S.

MECCANICA, vol.46, pp.1401-1412, 2011 (Journal Indexed in SCI)

● **Consideration of the masses of helical springs in forced vibrations of damped combined systems**

Gurgoze M., Zeren S.

MECHANICS RESEARCH COMMUNICATIONS, vol.38, pp.239-243, 2011 (Journal Indexed in SCI)

● **On the eigencharacteristics of a centrifugally stiffened, visco-elastic beam**

Gurgoze M., Zeren S.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.223, pp.1767-1775, 2009 (Journal Indexed in SCI)

● **On the consideration of the masses of helical springs in damped combined systems consisting of two continua**

Gurgoze M., Zeren S., Bicak M. M. A.

STRUCTURAL ENGINEERING AND MECHANICS, vol.28, pp.167-188, 2008 (Journal Indexed in SCI)

● **On the eigencharacteristics of a cantilevered visco-elastic beam carrying a tip mass and its representation by a spring-damper-mass system**

GURGOZE M., DOGRUOGLU A. N. , Zeren S.

JOURNAL OF SOUND AND VIBRATION, vol.301, pp.420-426, 2007 (Journal Indexed in SCI)

● **On the frequency equation of a combined system consisting of a simply supported beam and in-span helical spring-mass with mass of the helical spring considered**

GURGOZE M., CAKAR O., Zeren S.

JOURNAL OF SOUND AND VIBRATION, vol.295, pp.436-449, 2006 (Journal Indexed in SCI)

● **On the eigencharacteristics of an axially vibrating viscoelastic rod carrying a tip mass and its representation by a single degree-of-freedom system**

GURGOZE M., Zeren S.

JOURNAL OF SOUND AND VIBRATION, vol.294, pp.388-396, 2006 (Journal Indexed in SCI)

## Articles Published in Other Journals

● **Understanding Dyadics and Their Applications in Mechanical Engineering**

GURGOZE M., ZEREN S.

Scottish Journal of of Arts, Social Sciences and Scientific Studies, vol.3, pp.95-110, 2012

● **Sharing of an in-class experience with Lagrange equations of the first and second kind for determining reaction forces**

Gürgöze M., Zeren S.

International Journal of Mechanical Engineering Education, vol.38, pp.252-259, 2010

## Refereed Congress / Symposium Publications in Proceedings

● **Bir AraziAracında Aktif Viraj Denge Çubugunun Modellenmesi ve Kontrolü**

ZEREN S., ÖZCÜ M.

2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 September 2017, pp.1490-1497

## Citations

Total Citations (WOS):51

h-index (WOS):4