

## **Res. Asst. PhD İlkay KURT**

### **Personal Information**

**Office Phone:** [+90 212 383 2955](tel:+902123832955)

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### **Education Information**

Doctorate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Teorisi Ve Kontrol, Turkey 2010 - 2016

Postgraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Teorisi Ve Kontrol, Turkey 2008 - 2010

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Makine Mühendisliği Bölümü, Turkey 2003 - 2008

### **Dissertations**

Doctorate, Piezoelektrik katmanlı öngerilmeli sistemlerde yüzey ve lamb dalgalarının dispersiyonu, Yıldız Teknik Üniversitesi, Makina Mühendisliği Bölümü, Makine Teorisi Ve Kontrol, 2016

Postgraduate, Akıllı malzemeler yardımıyla plak titreşimlerinin aktif kontrolü, Yıldız Teknik Üniversitesi, Makina Mühendisliği Bölümü, Makine Teorisi Ve Kontrol, 2010

### **Research Areas**

Mechanical Engineering, Machine Theory and Dynamics, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations, Mechanical, Continuous Mechanics, Engineering and Technology

### **Academic Titles / Tasks**

Research Assistant PhD, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2016 - Continues

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2009 - Continues

### **Courses**

Industrial Automation, Undergraduate, 2021 - 2022

Programming, Undergraduate, 2018 - 2019

SYSTEM DYNAMICS AND SIMULATION, Undergraduate, 2019 - 2020

Basic Computer Science, Undergraduate, 2018 - 2019

### **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Flapwise Bending Vibration Analysis of a Double Tapered Rotating Nonlocal Euler-Bernoulli Beam by the Differential Transform Method**  
Kurt I., Kaya M. O.  
JOURNAL OF APPLIED MECHANICS AND TECHNICAL PHYSICS, vol.60, no.5, pp.959-968, 2019 (SCI-Expanded)
- II. **The influence of the initial stresses on Lamb wave dispersion in pre-stressed PZT/Metal/PZT sandwich plates**  
Kurt İ., Akbarov S., Sezer S.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.58, pp.347-378, 2016 (SCI-Expanded)
- III. **Lamb wave dispersion in a PZT/metal/PZT sandwich plate with imperfect interface**  
Kurt İ., Akbarov S., Sezer S.  
WAVES IN RANDOM AND COMPLEX MEDIA, vol.26, pp.301-327, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Active Control of Helicopter Ground Resonance with Lead-Lag Actuators**  
KURT İ.  
International Journal of Engineering Science and Application, vol.2, pp.83-87, 2018 (Peer-Reviewed Journal)
- II. **Comparison of IPD and Fuzzy Logic Velocity Control In Two Degree of Freedom DC Motor System**  
Avcu A., Bozkurt A. F., Erkan K., Kurt İ., Sezer S.  
International Journal of Engineering Science and Application, vol.2, pp.1-7, 2018 (Peer-Reviewed Journal)
- III. **EFFECT OF UNIAXIAL INITIAL STRESSES, PIEZOELECTRICITY AND THIRD ORDER ELASTIC CONSTANTS ON THE NEAR-SURFACE WAVES IN A STRATIFIED HALF-PLANE**  
Kurt İ., Akbarov S., Sezer S.  
JOURNAL OF THERMAL ENGINEERING, vol.3, pp.1346-1357, 2017 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Uniaxial Initial Stresses Piezoelectricity and Third Order Elastic Constants on the Near Surface Waves in a Stratified Half Plane**  
KURT İ., AKBAROV S., SEZER S.  
International Conference on Advances in Mechanical Engineering, 10 - 13 May 2016
- II. **Vibration Reduction of Semi-Trailer Truck Using MR Dampers: A Fuzzy Logic Control Approach**  
KURT İ., PAKSOY M., Cetin S., GÜÇLÜ R., SEZER S.  
7th International Conference on Mechanical and Aerospace Engineering (ICMAE), London, Canada, 18 - 20 July 2016, pp.336-340
- III. **ÖN GERİLMELİ PİEZOELEKTRİK ÖRTÜ TABAKASI VE ÖN GERİLMELİ ELASTİK YARI DÜZLEMDEN OLUŞAN SİSTEMDE GENELLEŞTİRİLMİŞ RAYLEIGH DALGALARININ DİSPERSİYONU**  
SURKHAY A., KURT İ., SEZER S.  
XVIII. ULUSAL MEKANİK KONGRESİ, Turkey, 26 - 30 August 2013, pp.21-29
- IV. **Ön Gerilmeli Piezoelektrik Örtü Tabakası ve Ön Gerilmeli Elastik Yarı Düzlemden Oluşan Sistemde Genelleştirilmiş Rayleigh Dalgalarının Dispersiyonu**  
Kurt İ., SEZER S.  
01 August 2013
- V. **Dispersion of the near-surface waves in a system consisting of a pre-stressed piezoelectric covering layer and a pre-stressed metallic half-plane**  
KURT İ., Sezer S.
- VI. **Modeling a Car with Linear Graph Method and Control with Fuzzy Logic**  
Kesici C., KURT İ.

## Metrics

Publication: 12

Citation (WoS): 15

Citation (Scopus): 18

H-Index (WoS): 2

H-Index (Scopus): 2