

Dr.Öğr.Üyesi Akif Yavuz

Kişisel Bilgiler

E-posta: yavuza15@itu.edu.tr

Web: <https://adl.itu.edu.tr>

Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Lisansüstü Eğitim Enstitüsü, Türkiye 2017 - 2023

Yüksek Lisans, İstanbul Teknik Üniversitesi, Makine Fakültesi , Makine Mühendisliği, Türkiye 2015 - 2017

Yabancı Diller

İngilizce, B2 Orta Üstü

Sertifika, Kurs ve Eğitimler

Ölçme ve Değerlendirme, Taşit Akustiği, OTAM, 2017

Eğitim Yönetimi ve Planlama, CATIA, TMMOB, 2015

Yaptığı Tezler

Yüksek Lisans, Taşit koltuklarının titreşim konforu açısından değerlendirilmesi, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği, 2017

Araştırma Alanları

Makina Teorisi ve Dinamiği, Makina Dinamiği, Taşit Sistemleri Dinamiği, Akustik ve Gürültü Kontrolü, Dinamik Sistemlerin Modellenmesi ve Benzetimi, Mekanik Titreşimler

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, İstanbul Teknik Üniversitesi, Makina, Makina Mühendisliği, 2024 - Devam Ediyor

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Makina, Makina Mühendisliği, 2016 - 2024

Araştırma Görevlisi, Boğaziçi Üniversitesi, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. DEVELOPMENT AND PERFORMANCE ASSESSMENT OF DIFFERENT SQUEAL INDEX METRICS BASED ON EXPERIMENTAL DATA

Yavuz A., Şen O. T.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, cilt.1, sa.1, ss.1-20, 2024 (SCI-Expanded)

II. Feasibility of Using a Mobile Device to Identify the Axle Whine Noise in a Vehicle

Rahtuvan G. B., Yavuz A., Şen O. T.

International Journal of Acoustics and Vibrations, cilt.28, sa.2, ss.139-146, 2023 (SCI-Expanded)

III. Stability Analysis of a Mass-Sliding Belt System and Experimental Validation as Motivated by the Brake Squeal Problem

Yavuz A.

Journal of Vibration Engineering Technologies , cilt.1, ss.1-20, 2023 (SCI-Expanded)

IV. Assessment of fuzzy logic approach for the prediction of dynamic stability on a mass-sliding belt experiment

Yavuz A., Sen O. T.

JOURNAL OF INTELLIGENT AND FUZZY SYSTEMS, cilt.1, ss.1-16, 2023 (SCI-Expanded)

V. INVESTIGATION OF THE PAD STIFFNESS EFFECTS ON THE INITIATION OF BRAKE SQUEAL PHENOMENON

Yavuz A., Sen O. T.

Journal of Theoretical and Applied Mechanics (Poland), cilt.61, sa.2, ss.219-232, 2023 (SCI-Expanded)

VI. Comparison and investigation of inverse identification techniques for the material properties of a brake disc through experimental and numerical modal analysis

BALCI Ö., Yavuz A., ÖZKAN M., Şen O. T.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, cilt.236, sa.20, ss.10395-10412, 2022 (SCI-Expanded)

Düger Dergilerde Yayınlanan Makaleler

I. Vehicle noise pollution awareness for human health and environmental impacts: A comprehensive review

Yavuz A., Yavuz A. N., Hacibektaşoğlu S. E.

ACTA PHARMACEUTICA SCIENCIA, cilt.62, sa.3, ss.1-20, 2024 (ESCI)

II. Evaluation of Road Roughness and Vehicle Speed Effects on Vibration Comfort of School Bus Driver Seats following the ISO 2631-1 Standard and Occupational Health and Safety Legislation

Yavuz A., Hacibektaşoğlu S. E.

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, cilt.12, sa.4, ss.1171-1184, 2023 (Hakemli Dergi)

III. Evaluation of Whole Body Vibration Exposures for Vehicle Drivers in terms of Occupational Health and Safety

Yavuz A.

International journal of advances in engineering and pure sciences (Online), cilt.35, sa.4, ss.504-514, 2023

(Hakemli Dergi)

IV. Investigation of vehicle-induced whole-body vibration with experimental rat models

YAVUZ A. N., Yavuz A.

Journal of Research in Pharmacy, cilt.27, sa.6, ss.2310-2329, 2023 (ESCI)

V. A Fuzzy Logic Approach on the Evaluation of Driving Styles and Investigation of Drivability Calibration Effects

AKŞİT S., YAVUZ A., ŞEN O. T.

GAZI UNIVERSITY JOURNAL OF SCIENCE, cilt.35, ss.668-680, 2022 (Scopus)

VI. Application of Artificial Neural Network to Predict Exhaust Emissions from Road Transport

Aydın M., Yavuz A., Soruşbay C.

International Journal of Scientific and Technological Research, cilt.4, sa.2, ss.13-22, 2018 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. Application of Piezoelectric Shunt Damping Treatment for Brake Squeal Suppression
Yavuz A., Şen O. T.
15th International Scientific Conference on Aeronautics, Automotive, and Railway Engineering and Technologies, BulTrans 2023, Hybrid, Sozopol, Bulgaristan, 10 - 13 Eylül 2023, cilt.3129
- II. Mathematical modelling of friction induced high frequency noise and vibration mechanism in vehicle brake systems through experimental data
Balci Ö., Yavuz A., Özkan M., Şen O. T.
52nd International Congress and Exposition on Noise Control Engineering, Tokyo, Japonya, 20 - 23 Ağustos 2023, ss.1-11
- III. Investigation of Screw Torque Dependent Performance Against Changing Mechanical Shock Values in a Boresight Mechanism
Mutlu C., Şen O. T., Yavuz A.
International Graduate Research Symposium, İstanbul, Türkiye, 16 - 18 Mayıs 2023, ss.1-2
- IV. Modal Analysis of Air Tube Bracket through Experimental and Numerical Approaches
Hotamış C. B., Turhan M., Kendirci C., Altınsel D., Yavuz A., Şen O. T.
INTERNATIONAL GRADUATE RESEARCH SYMPOSIUM IGRS'22, İstanbul, Türkiye, 1 - 03 Haziran 2022, ss.1
- V. Disc brake squeal analysis using nonlinear mathematical model
Yavuz A., Şen O. T.
50th International Congress and Exposition of Noise Control Engineering, INTER-NOISE 2021, Washington, Amerika Birleşik Devletleri, 1 - 05 Ağustos 2021
- VI. Optimization of suspension characteristics for increasing expected daily exposure durations in vehicles according to ISO 2631-1 standard using genetic algorithms
Yavuz A., Güney A.
48th International Congress and Exhibition on Noise Control Engineering, INTER-NOISE 2019 MADRID, Madrid, İspanya, 16 - 19 Haziran 2019
- VII. Prediction of the Number of Work Accidents in Coal Mining Sector with Artificial Neural Networks Method for year 2017
Yavuz A., Hacıbektaşoğlu S. E.
International Congress on Occupational Safety and Health, İstanbul, Türkiye, 6 - 09 Mayıs 2018, ss.545
- VIII. EFFECT OF ROAD ROUGHNESS IN THE EVALUATION OF BUS SEAT COMFORT
YAVUZ A.
International Automotive Technologies Congress, Bursa, Türkiye, 7 - 08 Mayıs 2018

Desteklenen Projeler

Şentürk Lüle S., Akalın Ö., Öztürk S. B., Yavuz A., TÜBİTAK Projesi, Çevreye Uyumlu Sürdürülebilir İleri Araç Teknolojileri, 2023 - 2027
Şen O. T., Yavuz A., Yükseköğretim Kurumları Destekli Proje, Yüksek frekanslı fren gürültüsü probleminin çalışılabilceği kontrollü bir test sistemi geliştirilmesi, 2018 - 2020

Bilimsel Hakemlikler

International journal of advances in engineering and pure sciences (Online), Hakemli Bilimsel Dergi, Şubat 2023

Metrikler

Yayın: 20

Ödüller

Yavuz A., YOUNG PROFESSIONALS AWARD, International Institute Of Noise Control Engineering , Haziran 2019

Akademi Dışı Deneyim

Boğaziçi Üniversitesi