

Asst. Prof. MURAT AKDAĞ

Personal Information

Mobile Phone: [+90 533 327 6864](tel:+905333276864)

Office Phone: [+90 232 301 9255](tel:+902323019255)

Email: murat.akdag@deu.edu.tr

Web: <https://avesis.deu.edu.tr/murat.akdag>

International Researcher IDs

ORCID: 0000-0003-3646-3894

Publons / Web Of Science ResearcherID: AAC-3538-2019

Yoksis Researcher ID: 143478

Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (Dr), Turkey 2002 - 2008

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (Yl) (Tezli), Turkey 1999 - 2002

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1995 - 1999

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Design and analysis of robot manipulators by integrated CAE procedures, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (Dr), 2008

Postgraduate, The free vibration analysis of multi disc shaft systems, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Makine Teorisi Ve Dinamiği (Yl) (Tezli), 2002

Research Areas

Robotics, Mechatronics, Mechanical Vibrations

Academic Titles / Tasks

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2013 - Continues

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2000 - 2013

Courses

Teknik Resim 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Teknik Resim 2, Undergraduate, 2021 - 2022
Teknik Resim 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Sayısal Kontrollü Tezgahlar, Undergraduate, 2022 - 2023
Computer Aided Design, Postgraduate, 2022 - 2023
Teknik Resim 2, Undergraduate, 2021 - 2022
Computer Aided Analysis of Mechanical Systems, Postgraduate, 2021 - 2022
Atölye Eğitimi, Undergraduate, 2021 - 2022

Advising Theses

AKDAĞ M., 70 kg uç nokta yük kapasiteli pres yükleme robotunun mekatronik tasarımı, Postgraduate, E.GÖRER(Student), 2022
AKDAĞ M., Esnek nanokompozit manipülatörlerin titreşim analizi, Doctorate, M.HOCAOĞLU(Student), 2022
AKDAĞ M., Design and manufacturing of a high cruise speed unmanned aerial vehicle that can take off and land vertically, Postgraduate, S.YOLCU(Student), 2021
AKDAĞ M., Masaüstü bir CNC tornanın otomasyonu ve sonlu elemanlar yöntemi ile analizi, Postgraduate, U.TUTKUN(Student), 2020
AKDAĞ M., Bir delta robot manipülatörün entegre tasarım ve analizi, Postgraduate, U.BOZOK(Student), 2019
AKDAĞ M., CNC makinaların esnekliğinin ortez tabanlı üretim hassasiyetine etkisi, Postgraduate, A.SEVER(Student), 2017
AKDAĞ M., Lojistik hizmet veren otonom araç tasarımı, Postgraduate, M.HOCAOĞLU(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of GFRP/AA7075-T6 Scarf Joint as a Robot Arm for High Natural Frequency and Damping Ratio**
GENÇER G. M., ÖZTOPRAK N., AKDAĞ M., ŞEN H.
Arabian Journal for Science and Engineering, 2023 (SCI-Expanded)
- II. **A fast processing method to perform transient analysis for vibration control**
YAVUZ Ş., AKDAĞ M., KARAGÜLLE H.
SIMULATION MODELLING PRACTICE AND THEORY, vol.104, 2020 (SCI-Expanded)
- III. **Effect of joint flexibility on vibration characteristics of a composite box manipulator**
MALGACA L., Dogan H., Akdag M., YAVUZ Ş., Uyar M., Bidikli B.
COMPOSITE STRUCTURES, vol.183, pp.271-277, 2018 (SCI-Expanded)
- IV. **Vibration control of a two-link flexible manipulator**
KARAGÜLLE H., MALGACA L., Dirilmis M., Akdag M., YAVUZ Ş.
JOURNAL OF VIBRATION AND CONTROL, vol.23, no.12, pp.2023-2034, 2017 (SCI-Expanded)
- V. **Residual vibration control of a single-link flexible curved manipulator**
MALGACA L., YAVUZ Ş., AKDAĞ M., KARAGÜLLE H.
SIMULATION MODELLING PRACTICE AND THEORY, vol.67, pp.155-170, 2016 (SCI-Expanded)
- VI. **Kinematic-Kinetic-Rigidity Evaluation of a Six Axis Robot Performing a Task**
KARAGÜLLE H., Amindari A., Akdag M., MALGACA L., YAVUZ Ş.
INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, vol.9, 2012 (SCI-Expanded)
- VII. **An integrated approach for simulation of mechatronic systems applied to a hexapod robot**
Akdag M., KARAGÜLLE H., MALGACA L.
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.82, no.5, pp.818-835, 2012 (SCI-Expanded)
- VIII. **Experimental Investigation of the Dynamic Response of a Symmetric Laminated Composite Beam Via Laser Vibrometry**
KIRAL Z., MALGACA L., AKDAĞ M., GÖREN KIRAL B.

Articles Published in Other Journals

- I. **Investigation of Performance and Sensitivity of S-Curve Motion Profiles on Reduction in Flexible Manipulator Vibrations**
AKDAĞ M., Şen H.
Arabian Journal for Science and Engineering, vol.48, no.9, pp.12061-12074, 2023 (Scopus)
- II. **Multi-Body Finite Element Analysis of an Inclined Scrap Shear with 1100 Tons of Capacity**
KARAGÜLLE H., Yıldırım Ç. Y., AKDAĞ M., San R., Yıldız H., MALGACA L., YAVUZ Ş.
International Journal of Engineering Research Technology, vol.8, no.12, 2019 (Peer-Reviewed Journal)
- III. **Active control of residual vibrations of a cantilever smart beam**
KIRAL Z., MALGACA L., AKDAĞ M.
Turkish Journal of Engineering and Environmental Sciences, vol.32, no.1, pp.51-57, 2008 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Motion-based vibration control of a flexible composite box manipulator**
MALGACA L., DOĞAN H., AKDAĞ M., YAVUZ Ş., UYAR M.
25th International Conference on Composites/Nano Engineering(ICCE-25), Rome, Italy, 16 - 22 July 2017
- II. **The effect of joint flexibility on the vibration characteristics of composite box manipulators**
MALGACA L., AKDAĞ M., YAVUZ Ş., UYAR M., Doğan H.
19th International Conference on Composite Structures, Porto, Portugal, 5 - 08 September 2016, pp.82
- III. **Effect of joint flexibility on vibration characteristics of a composite box manipulator**
MALGACA L., Doğan H., AKDAĞ M., YAVUZ Ş., UYAR M., BİDİKLİ B.
19th International conference on composite structures ICCS19, Porto, Portugal, 5 - 09 September 2016
- IV. **Otomatik Sera İlaçlama Robotunun Sürüş Dinamiği Testi Ve Deneysel Analizi**
MALGACA L., KARAGÜLLE H., AKDAĞ M., YAVUZ Ş.
Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, Turkey, 14 - 17 June 2015, pp.139-144
- V. **Çift Motorlül Bir Lojistik Aracın Tasarımı ve PLC ile Kontrolü**
AKDAĞ M., YAVUZ Ş., HOCAOĞLU M.
Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, pp.754-759
- VI. **ALTI EKSENLİ BİR ROBOTUN HAREKET KONTROLÜNÜN SOLIDWORKS SİMÜLASYONU İLE BÜTÜNLEŞTİRİLMESİ**
YAVUZ Ş., KARAGÜLLE H., MALGACA L., AKDAĞ M.
16. Ulusal Makine Teorisi Sempozyumu, Turkey, 12 - 13 September 2013
- VII. **ÜÇ EKSENLİ SERİ ESNEK MANİPÜLATÖRÜN TİTREŞİM ANALİZİ**
MALGACA L., KARAGÜLLE H., AKDAĞ M., YAVUZ Ş.
16. Ulusal Makine Teorisi Sempozyumu, Turkey, 12 - 13 September 2013
- VIII. **A MECHATRONIC DESIGN PROCESS FOR THREE AXIS SERIAL ROBOTS**
KARAGÜLLE H., AKDAĞ M., MALGACA L.
10th ASME Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Turkey, 12 - 24 July 2010, pp.837-842
- IX. **Lazer Sensörlerle Bir Robotun Doğal Frekanslarının ve Statik Çökmelerinin Ölçümü**
AKDAĞ M., MALGACA L., KARAGÜLLE H., KIRAL Z.
TMMOB Makina Mühendisleri Odası VII. ÖlçümBilim Kongresi, İzmir, Turkey, 20 October - 01 November 2008
- X. **Hareketli Yük Probleminin Deneysel Olarak İncelenmesi**
KIRAL Z., MALGACA L., AKDAĞ M.
13. Ulusal Makine Teorisi Sempozyumu, Sivas, Turkey, 7 - 09 June 2007, pp.351-360

XI. Dynamic Stress Analysis of a Robot Manipulator for Different End Point Trajectories

AKDAĞ M., KIRAL Z.

DECOM-TT 2007, İzmir, Turkey, 17 - 20 May 2007, pp.191-201

Scientific Refereeing

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, Dokuz Eylul University, Turkey, March 2024

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, DCE MÜHENDİSLİK SANAYİ TİCARET LİMİTED ŞİRKETİ, Turkey, January 2024

Metrics

Publication: 24

Citation (WoS): 79

Citation (Scopus): 98

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