

Lect. PhD ASLAN AKDULUM

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2017 - 2022

Undergraduate, Gazi University, Teknoloji Fakültesi, İmalat Mühendisliği, Turkey 2017 - 2018

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2013

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, Turkey 2005 - 2009

Dissertations

Doctorate, Değiştirilebilir uçlu matkapların (U-drill) farklı alüminyum alaşımlarında uygulanabilirliğinin deneysel araştırılması, Gazi University, Fen Bilimleri Enstitüsü, 2022

Postgraduate, Fotoğrafi çekilen parçaların CATIA CAD ortamında otomatik modellenmesi, Gazi University, Teknik Eğitim Fakültesi, Makina Eğitimi, 2013

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Construction and Manufacturing, Machining Methods, Mechanical

Academic Titles / Tasks

Lecturer PhD, Hacettepe University, Başkent OSB Teknik Bilimler MYO, Makina ve Metal Teknolojileri Bölümü, 2023 - Continues

Courses

Bilgisayar Destekli Üretim, Associate Degree, 2023 - 2024, 2022 - 2023

Proje, Associate Degree, 2023 - 2024, 2022 - 2023

İmalat İşlemleri II, Associate Degree, 2023 - 2024, 2022 - 2023

HİDROLİK ve PNÖMATİK, Associate Degree, 2023 - 2024

ALIŞILMAMIŞ İMALAT YÖNTEMLERİ, Associate Degree, 2023 - 2024

İleri İmalat Yöntemleri, Associate Degree, 2022 - 2023

TEKNİK RESİM, Associate Degree, 2023 - 2024

ÜRETİMDE ÖLÇME KONTROL TEKNİKLERİ, Associate Degree, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Farklı özelliklere sahip U matkaplar ile AA2024-T351'in delinmesinde çaptan sapma, dairesellik ve silindirikliğin incelenmesi**
Akdulum A., Kayır Y.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.39, no.2, pp.1167-1178, 2024 (SCI-Expanded)
- II. **Experimental comparison of the indexable drilling with different U drills on hole quality**
Akdulum A., Kayır Y.
MACHINING SCIENCE AND TECHNOLOGY, vol.28, no.1, pp.1-28, 2024 (SCI-Expanded)
- III. **Prediction of thrust force in indexable drilling of aluminum alloys with machine learning algorithms**
Akdulum A., Kayır Y.
MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, vol.222, pp.1-16, 2023 (SCI-Expanded)
- IV. **Modeling and estimation of thrust force, torque, and surface roughness in indexable drilling of AA6061-T651 with Taguchi, ANN, and ANFIS**
Akdulum A., Kayır Y.
SADHANA - ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.2023, no.48, pp.1-16, 2023 (SCI-Expanded)
- V. **Experimental investigation and optimization of process stability in drilling of Al 7075-T651 using indexable insert drills**
Akdulum A., Kayır Y.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.2023, no.45, pp.1-20, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of the Effect of U Drills with Different Properties on Thrust Force, Torque and Spindle Load**
Akdulum A., Kayır Y.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.26, no.1, pp.387-400, 2023 (ESCI)
- II. **Değiştirilebilir Uçlu Matkap Uygulamaları Üzerine Bir Derleme**
Akdulum A., Kayır Y.
KBÜ Makine Mühendisliği Dergisi, vol.1, no.1, pp.20-34, 2020 (Peer-Reviewed Journal)
- III. **FOTOĞRAFI ÇEKİLEN PARÇALARIN CATIA CAD ORTAMINDA OTOMATİK MODELLENMESİ**
Kayır Y., Akdulum A.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.20, no.4, pp.129-137, 2014 (Peer-Reviewed Journal)

Supported Projects

Akdulum A., Kayır Y., Project Supported by Higher Education Institutions, DEĞİŞTİRİLEBİLİR UÇLU MATKAPLARIN (U-DRILL) KESME PERFORMANSININ İNCELENMESİ, 2019 - 2021

Scientific Refereeing

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, March 2024

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, February 2024

Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, Other Indexed Journal, February 2024

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, February 2024

INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Journal Indexed in SCI-E, January 2024

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, January 2024

INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Journal Indexed in SCI-E, November 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, November 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, November 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, November 2023

AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, Journal Indexed in SCI-E, October 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, October 2023

INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Journal Indexed in SCI-E, September 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, September 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, August 2023

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, Journal Indexed in ESCI, August 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, July 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, July 2023

Journal of the Institute of Science and Technology, National Scientific Refreed Journal, June 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, June 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, May 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, April 2023

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, March 2023