Lect. PhD ASLAN AKDULUM

Personal Information

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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, Fotoğrafı 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

İMALAT İŞLEMLERİ I, 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-POLITEKNIK DERGISI, 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 UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, 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
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
MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, February 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, January 2024
MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, November 2023
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
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
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, Journal Indexed in ESCI, August 2023
MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, 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