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International Researcher IDs

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Publons / Web Of Science ResearcherID: R-4676-2019

ScopusID: 57204717896

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Education Information

2013 - 2020	Doctorate, Aydin Adnan Menderes University, Graduate School Of Natural And Applied Sciences, Turkey
2009 - 2011	Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Turkey
2005 - 2009	Undergraduate, Kocaeli University, Teknik Eğitim Fakültesi, Turkey

Research Areas

Electrical and Electronics Engineering, Mechanical Engineering

Academic Titles / Tasks

2022 - Continues	Assistant Professor, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Makine ve Metal Teknolojileri
2015 - 2022	Research Assistant, Aydin Adnan Menderes University, Faculty Of Engineering

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Image Processing Approach to Investigate the Correlation between Machining Parameters and Burr Formation in Micro-Milling Processes of Selective-Laser-Melted AISI 316L**
AKKOYUN F., Cevik Z. A., Ozsoy K., Ercetin A., Arpaci I.
Micromachines, vol.14, no.7, 2023 (SCI-Expanded)
- II. **Effect of Drilling Parameters and Tool Geometry on the Thrust Force and Surface Roughness of Aerospace Grade Laminate Composites**
Bolat Ç., Karakılınç U., Yalçın B., Öz Y., Yavaş Ç., Ergene B., Ercetin A., AKKOYUN F.
Micromachines, vol.14, no.7, 2023 (SCI-Expanded)
- III. **A Multi-Flow Production Line for Sorting of Eggs Using Image Processing**
AKKOYUN F., Ozcelik A., Arpaci I., Erçetin A., Gucluer S.
Sensors, vol.23, no.1, 2023 (SCI-Expanded)
- IV. **A Battery-Powered Fluid Manipulation System Actuated by Mechanical Vibrations**
Akkoyun F., Ozcelik A.
ACTUATORS, vol.11, no.5, 2022 (SCI-Expanded)
- V. **Automated Grain Counting for the Microstructure of Mg Alloys Using an Image Processing Method**
Akkoyun F., Ercetin A.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.31, no.4, pp.2870-2877, 2022 (SCI-Expanded)

- VI. **Inexpensive multispectral imaging device**
Akkoyun F.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.50, no.5, pp.543-559, 2022 (SCI-Expanded)
- VII. **A Real-Time Machine Vision System for Grading Quartz Mineral**
Akkoyun F.
Journal of Testing and Evaluation, vol.50, no.5, 2022 (SCI-Expanded)
- VIII. **Potential of the acoustic micromanipulation technologies for biomedical research**
Akkoyun F., Gucluer S., Ozcelik A.
BIOMICROFLUIDICS, vol.15, no.6, 2021 (SCI-Expanded)
- IX. **Image Processing of Mg-Al-Sn Alloy Microstructures for Determining Phase Ratios and Grain Size and Correction with Manual Measurement**
Ercetin A., Akkoyun F., Simsir E., Pimenov D. Y., Giasin K., Chandrashekarappa M. P. G., Lakshmikanthan A., Wojciechowski S.
MATERIALS, vol.14, no.17, 2021 (SCI-Expanded)
- X. **Measurement of Micro Burr and Slot Widths through Image Processing: Comparison of Manual and Automated Measurements in Micro-Milling**
Akkoyun F., Ercetin A., Aslantas K., Pimenov D. Y., Giasin K., Lakshmikanthan A., Aamir M.
SENSORS, vol.21, no.13, 2021 (SCI-Expanded)
- XI. **An Experimental Study to Investigate the Effect of the Angle of Attack on VTOL UAV Propellers**
AKKOYUN F., BÖĞREKÇİ İ., DEMİRCİOĞLU P., VARDİN S.
IFAC-PapersOnLine, vol.51, no.30, pp.441-445, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Industrial White Quartz Stone Classification Using Image Processing and Supervised Learning**
Görüntü İşleme ve Gözetimli Öğrenme Yardımıyla Endüstriyel Beyaz Kuvars Taş Sınıflandırması
Akkoyun F., Ekin O., Sebetci Ö.
El-Cezeri Journal of Science and Engineering, vol.9, no.2, pp.801-813, 2022 (Scopus)
- II. **A computer vision system for chain link sorting application**
AKKOYUN F., Baş M. N., Şimşek S., Uysal D. E., GÜÇLÜER S., ÖZÇELİK A.
Turkish Journal of Electromechanics and Energy, vol.6, no.2, pp.53-57, 2021 (Peer-Reviewed Journal)
- III. **Rapid Characterization of Cell and Bacteria Counts using Computer Vision**
AKKOYUN F., ÖZÇELİK A.
Türk Doğa ve Fen Dergisi, vol.10, no.1, pp.269-274, 2021 (Peer-Reviewed Journal)
- IV. **A Simple Approach for Controlling an Open-Source Syringe Pump**
AKKOYUN F., ÖZÇELİK A.
European Mechanical Science, vol.4, no.4, pp.166-170, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the reinforcement distributions in the microstructure of Mg matrix composite using computer vision technology**
AKKOYUN F., ERÇETİN A.
EUROASIA SUMMIT 4th International Applied Science Congress, Odessa, Ukraine, 11 - 12 September 2021, pp.123
- II. **Implementation of a Real-Time Data Acquisition System with Wireless Sensor Network for Temperature Measurement**
BÖĞREKÇİ İ., AKKOYUN F., DEMİRCİOĞLU P., VARDİN S.
International Symposium for Production Research 2018 (ISPR 2018), 28 - 31 August 2018
- III. **Design and Development of Human Machine Interface for Unmanned Aerial Vehicle Control**

AKKOYUN F., BÖĞREKÇİ İ., DEMİRCİOĞLU P., VARDİN S.

International Symposium for Production Research 2018 (ISPR 2018), 28 - 31 August 2018

- IV. **An Experimental Study to Investigate the Effect of the Angle of Attack on VTOL UAV Propellers**
Akkoyun F., Bogrekci I., Demircioglu P., Vardin S.
18th International-Federation-of-Automatic-Control (IFAC) Conference on Technology, Culture and International Stability (TECIS), Baku, Azerbaijan, 13 - 15 September 2018, vol.51, pp.441-445
- V. **ERP ve Endüstri 4.0 Uygulamalarının Makine Mühendisliği Eğitimine Sağlayacağı Katkıların Araştırılması ve Analiz Edilmesi**
GÜNAY M. B., AKKOYUN F., SEBETCİ Ö., BÖĞREKÇİ İ.
International Symposium on Industry 4.0 and Applications (ISIA 2017), Karabük, Turkey, 12 - 14 October 2017, vol.1
- VI. **Development of Load Cell and Real-Time Force Measurement System**
BÖĞREKÇİ İ., DEMİRCİOĞLU P., AKKOYUN F., KÖSEM M. A.
Welmo 2017, İzmir, Turkey, 4 - 05 May 2017, pp.13-18
- VII. **Çoklu Sensör Yaklaşımıyla Erken Yangın Algılama Sisteminin Geliştirilmesi**
SUCUOĞLU H. S., AKKOYUN F., DEMİRCİOĞLU P., BÖĞREKÇİ İ.
Tüyak, Turkey, 12 - 13 November 2015, pp.140-148
- VIII. **FPGA Tabanlı Dokunmatik Ekranlı Kullanıcı Arabirimi Tasarlanması ve Gerçekleştirilmesi**
AKKOYUN F., ERKAN K.
Fırat Üniversitesi Elektrik-Elektronik ve Bilgisayar Sempozyumu, Turkey, 01 January 2011, vol.47, pp.47

Metrics

Publication: 23

Citation (WoS): 28

Citation (Scopus): 37

H-Index (WoS): 3

H-Index (Scopus): 3