

Prof. ABDİL KUŞ

Personal Information

Email: abdilkus@uludag.edu.tr

Web: <https://avesis.uludag.edu.tr/abdilkus>

International Researcher IDs

ScholarID: -PmGlegAAAAJ

ORCID: 0000-0002-4626-0719

ScopusID: 57196667786

Yoksis Researcher ID: 154874

Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Dr), Turkey 1991 - 1996

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (YI) (Tezli), Turkey 1986 - 1990

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, Turkey 1980 - 1984

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Çok katlı kompozit plakların enerji absorpsiyon özelliklerinin teorik ve deneysel analizi, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Makine Mühendisliği (Dr), 1996

Postgraduate, Sıcak dövme kalıpları tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Makine Eğitimi (YI) (Tezli), 1990

Research Areas

Computer Aided Design and Manufacturing, Non-traditional manufacturing methods, Machining Methods, Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, OTOMOTİV MÜHENDİSLİĞİ, 2018 - Continues

Associate Professor, Bursa Uludağ University, TEKNİK BİLİMLER MYO, MAKİNE VE METAL TEKNOLOJİLERİ, 2011 - 2018

Assistant Professor, Bursa Uludağ University, TEKNİK BİLİMLER MYO, MAKİNE VE METAL TEKNOLOJİLERİ, 2000 - 2011

Academic and Administrative Experience

Bursa Uludağ University, Teknik Bilimler Meslek Yüksekokulu, Makine Ve Metal Teknolojileri Bölümü, 2018 - Continues

Courses

COMPUTER AIDED DRAFTING, Undergraduate, 2020 - 2021
REVERSE ENGINEERING, Undergraduate, 2020 - 2021
BİLGİSAYAR DESTEKLİ ÜRETİM, Undergraduate, 2019 - 2020
CNC MILLING TECHNOLOGY, Associate Degree, 2019 - 2020
INDUSTRIAL DESIGN and MANUFACTURING APPLICATIONS , Undergraduate, 2020 - 2021
AUTOMOTIVE DESIGN, MANUFACTURING AND PROJECT MANAGEMENT, Doctorate, 2020 - 2021

Advising Theses

KUŞ A., Analysis based process engineering applications in automotive industry, Postgraduate, B.Doğanışık(Student), 2021
Kuş A., Development of application of virtual & augmented reality to use mechanical and manufacturing engineering, Postgraduate, M.KOFOĞLU(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The flexural behavior of the epoxy and polyester based composite sandwich structures at subzero temperatures**
ERTAN R., KUŞ A., Durgun I.
MATERIALS LETTERS, vol.272, 2020 (SCI-Expanded)
- II. **Experimental study on the flexural properties of 3D integrated woven spacer composites at room and subzero temperatures**
KUŞ A., Durgun I., ERTAN R.
JOURNAL OF SANDWICH STRUCTURES & MATERIALS, vol.20, no.5, pp.517-530, 2018 (SCI-Expanded)
- III. **A novel approach to use internally cooled cutting tools in dry metal cutting**
IŞIK Y., KUŞ A., COŞKUN S., Ozdemir K., Cakir M. C.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.24, no.3, pp.239-246, 2017 (SCI-Expanded)
- IV. **Estimation of the optimum cutting parameters for surface roughness in wire electrical discharge machining of nickel based waspaloy using Taguchi method**
KUŞ A., MOTORCU A. R.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.1, pp.195-204, 2017 (SCI-Expanded)
- V. **Application of carbon reinforced composites and rapid prototyping in low volume automotive production**
Durgun I., KUŞ A., Cankaya O., Unver E.
MATERIALS TESTING, vol.58, no.10, pp.870-876, 2016 (SCI-Expanded)
- VI. **Evaluation of surface roughness and material removal rate in the wire electrical discharge machining of Al/B4C composites via the Taguchi method**
EKİCİ E., MOTORCU A. R., KUŞ A.
JOURNAL OF COMPOSITE MATERIALS, vol.50, no.18, pp.2575-2586, 2016 (SCI-Expanded)
- VII. **Investigation of the WEDM of Al/B4C/Gr reinforced hybrid composites using the Taguchi method and response surface methodology**
MOTORCU A. R., EKİCİ E., KUŞ A.
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.23, no.4, pp.435-445, 2016 (SCI-Expanded)
- VIII. **Experimental investigation of sheet metal forming using a recyclable low melting point alloy tool**
Durgun I., KUŞ A., Sakin A., Unver E., Jagger B., Doruk E., FINDIK F.
MATERIALS TESTING, vol.58, no.5, pp.475-480, 2016 (SCI-Expanded)

- IX. **ANALYSIS OF THE CUTTING TEMPERATURE AND SURFACE ROUGHNESS DURING THE ORTHOGONAL MACHINING OF AISI 4140 ALLOY STEEL VIA THE TAGUCHI METHOD**
MOTORCU A. R., IŞIK Y., KUŞ A., ÇAKIR M. C.
MATERIALI IN TEHNOLOGIJE, vol.50, no.3, pp.343-351, 2016 (SCI-Expanded)
- X. **Influence of cutting parameters on the chip-tool interface temperature during the turning of Waspaloy**
IŞIK Y., KUŞ A., Cakir M. C.
MATERIALS TESTING, vol.57, no.9, pp.783-789, 2015 (SCI-Expanded)
- XI. **Impact behavior of multi-layer carbon skin composite sandwich panels with 3D spacer fabric**
Kus A.
MATERIALS TESTING, vol.57, pp.655-662, 2015 (SCI-Expanded)
- XII. **Thermocouple and Infrared Sensor-Based Measurement of Temperature Distribution in Metal Cutting**
KUŞ A., IŞIK Y., Cakir M. C., COŞKUN S., Ozdemir K.
SENSORS, vol.15, no.1, pp.1274-1291, 2015 (SCI-Expanded)
- XIII. **The evaluation of the effects of control factors on surface roughness in the drilling of Waspaloy superalloy**
MOTORCU A. R., KUŞ A., Durgun I.
MEASUREMENT, vol.58, pp.394-408, 2014 (SCI-Expanded)
- XIV. **EVALUATION OF TOOL LIFE - TOOL WEAR IN MILLING OF INCONEL 718 SUPERALLOY AND THE INVESTIGATION OF EFFECTS OF CUTTING PARAMETERS ON SURFACE ROUGHNESS WITH TAGUCHI METHOD**
MOTORCU A. R., KUŞ A., ARSLAN R., TEKİN Y., EZENTAŞ R.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.20, no.5, pp.765-774, 2013 (SCI-Expanded)
- XV. **Influence of Stitching Parameters on Tensile Strength of Aramid/Vinyl Ester Composites**
KARAHAN M., ULCA Y., KARAHAN N., KUŞ A.
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.19, no.1, pp.67-72, 2013 (SCI-Expanded)
- XVI. **A Comparative Study of 3D Scanning in Engineering, Product and Transport Design and Fashion Design Education**
Kus A., Unver E., Taylor A.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.17, no.3, pp.263-271, 2009 (SCI-Expanded)
- XVII. **Implementation of 3D Optical Scanning Technology for Automotive Applications**
Kus A.
SENSORS, vol.9, no.3, pp.1967-1979, 2009 (SCI-Expanded)
- XVIII. **A Model for "Work Integrated Learning" in Mechatronic Education**
GÜCÜYENER İ., KUŞ A., ARSLAN R.
MECHATRONIC SYSTEMS AND MATERIALS III, pp.918-923, 2009 (SCI-Expanded)
- XIX. **A model of cooperative education - "Group Leader Training Program" for industry employees**
ARSLAN R., KUŞ A., Mumcu H., Uzaslan N. T.
TURKISH ONLINE JOURNAL OF EDUCATIONAL TECHNOLOGY, vol.7, no.4, pp.29-35, 2008 (SSCI)
- XX. **An investigation into ballistic performance and energy absorption capabilities of woven aramid fabrics**
KARAHAN M., KUŞ A., EREN R.
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING, vol.35, no.6, pp.499-510, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Case Study of Sectoral Vocational Competence and Training Centre; Evaluation of In-Service Teacher Trainings for Hybrid and Electric Vehicles**
Arslan R., Karahan M., Kuş A.

- RECENT Journal, vol.73, no.2, pp.114-121, 2024 (Peer-Reviewed Journal)
- II. **A Study to Determine Infrastructure Needs for Hybrid and Electric Vehicle Training in Vocational Education**
Karahan M., Arslan R., Kuş A., Şen M., Kaplan C.
RECENT Journal, Universitatea Transilvania Brasov, vol.24, pp.4-8, 2023 (Peer-Reviewed Journal)
- III. **Sectoral Needs Analysis to Develop Training Programs for Hybrid and Electric Vehicles**
Arslan R., Karahan M., Kuş A., Şen M., Kaplan C.
RECENT Journal, Universitatea Transilvania Brasov, vol.24, pp.84-94, 2023 (Peer-Reviewed Journal)
- IV. **INVESTIGATION OF THE EFFECTS OF USING AUGMENTED REALITY APPS ON STUDENTS' LEARNING ACHIEVEMENT AND MOTIVATION IN ENGINEERING DRAWING COURSES**
Arslan R., Kuş A., Emreli D., Unver E., Huerta O.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.26, no.9, pp.787-797, 2021 (Peer-Reviewed Journal)
- V. **An Approach to Improve Technical Drawing using VR and AR Tools**
Huerta O., Unver E., Arslan R., Kuş A., Allen J.
COMPUTER-AIDED DESIGN AND APPLICATIONS, vol.17, no.4, pp.836-849, 2020 (Scopus)
- VI. **ÜÇ BOYUTLU DOKUMA KUMAŞ TAKVİYELİ SANDVIÇ KOMPOZİTLERDE YÜZEYLERDEKİ ELYAF KATMAN SAYISININ EĞİLME DAVRANIŞINA ETKİSİ**
ERTAN R., KUŞ A., durgun i.
Uludağ University Journal of The Faculty of Engineering, vol.24, no.3, pp.231-240, 2019 (Peer-Reviewed Journal)
- VII. **MÜHENDİSLİK EĞİTİMİNDE GEOMETRİK TOLERANSLARIN ÖĞRETİMİNE YÖNELİK ARTIRILMIŞ GERÇEKLİK UYGULAMASI GELİŞTİRİLMESİ**
kofoğlu m., KUŞ A., Emreli D., ARSLAN R., unver e., KAGIOGLU M.
Uludağ University Journal of The Faculty of Engineering, vol.24, no.2, pp.173-184, 2019 (Peer-Reviewed Journal)
- VIII. **SANDVIÇ KOMPOZİTLERİN DELİNMESİNDE DELAMİNASYON FAKTÖRÜNÜN İNCELENMESİ**
KUŞ A., EKİCİ E.
Uludağ University Journal of The Faculty of Engineering, vol.22, no.3, pp.153-162, 2017 (Peer-Reviewed Journal)
- IX. **Wire Electrical Discharge Machining of a Hybrid Composite: Evaluation of Kerf Width and Surface Roughness**
KUŞ A., MOTORCU A. R., EKİCİ E.
Uludağ University Journal of The Faculty of Engineering, vol.21, no.1, pp.245, 2016 (Peer-Reviewed Journal)
- X. **A Modular Approach for Training Employees in the Automotive Service Sector A Case Study**
ARSLAN R., KUŞ A.
IndustryHigher Education, vol.26, 2012 (Peer-Reviewed Journal)
- XI. **A modular training project for vocational education and improvement in Turkey**
ARSLAN R., TEKİN Y., YAZICI M., KUŞ A., KAYNAK Z. G.
INDUSTRY AND HIGHER EDUCATION, no.2, pp.127-132, 2009 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Model for Work Integrated Learning in Mechatronic Education**
GÜCÜYENER İ., KUŞ A., ARSLAN R.
4th Conference Mechatronic Systems and Materials 2008, Poland, 14 - 17 July 2008, pp.1
- II. **Applications of Certificate Program for Industry Workers**
ARSLAN R., KUŞ A., KAYNAK Z. G.
IVETA Regional Conference, Turkey, 20 - 22 October 2003, pp.161-165

Supported Projects

Sevilgen G., Kılıç M., Etemoğlu A. B., Karpat F., Kaya N., Sürmen A., Karamangil M. İ., Kuş A., Çavdur F., Cindoruk S. S., et al,

TUBITAK Project, TÜBİTAK 1004 (Mükemmeliyet Merkezi Destek Programı) Elektrikli Taşıtlar İçin Batarya Teknolojileri Araştırma ve Geliştirme Platformu (BATEG), 2022 - 2026

Arslan R., Kuş A., Erasmus Project, Development of Virtual and Augmented Reality (VR/AR) Assisted Digital Training Materials for Hybrid and Electric Vehicles., 2023 - 2025

Kuş A., Arslan R., Erasmus Project, VIRTUAL AND AUGMENTED REALITY IN DESIGN FOR MANUFACTURE , 2017 - 2019

İŞİK Y., KUŞ A., Project Supported by Higher Education Institutions, CNC Tezgâhlarda Ortogonal talaş kaldırma işlemlerinde soğutma sıvısı ve takımın içeriden soğutulmasının sıcaklık dağılımına etkilerinin deneysel olarak araştırılması, 2013 - 2015

KUŞ A., ÇANKAYA O., Project Supported by Higher Education Institutions, Vakum İnfüzyon Teknolojisi ile Otomotiv Sektöründe Kullanılan Karbon Takviyeli Kompozit Parça Üretimi ve Analizi, 2013 - 2014

Arslan R., Kuş A., Erasmus Project, Ürün taşıt ve grafik tasarımı eğitiminde yenilikçi yöntem ve teknolojiler, 2010 - 2011

Arslan R., Ezentaş R., Kuş A., Tekin Y., Motorcu A. R., Project Supported by Higher Education Institutions, CNC Freze Tezgâhında Inconel 718 Waspalloy Süper alaşımlarının İşlenebilirliklerinin araştırılması, 2008 - 2010

Arslan R., Kuş A., Erasmus Project, Öğrenci ve Yeni Mezunların İş Bulma Becerilerini Yükseltmek İçin Mesleki Yetenek Geliştirme Ve Kültürel Etkileşim Projesi VIECA2005, 2005 - 2006

Arslan R., Kuş A., Erasmus Project, İngiltere deki Tekniker Eğitim Stratejilerinin İncelenmesi ve Uygulanabilir Yeni Metotların Geliştirilmesi Scotland EX1 162 2004 2005, 2005 - 2005

Arslan R., Kuş A., Yazıcı M., Tekin Y., Kaynak G., EU Supported Other Project, İmalat Sektörünün Beklentilerine Uygun Teknolojik Bilgi ve Becerilere Sahip İstihdam Yaratacak Meslek Edindirme ve Geliştirme Modüler Eğitim Projesi, 2004 - 2005

Patent

Çakır M. C., Kuş A., Coşkun S., Işık Y., İçten Soğutmalı Takım Tutucu, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2014 12468 A2 , Standard Registration, 2018

Metrics

Publication: 74
Citation (WoS): 411
Citation (Scopus): 509
H-Index (WoS): 9
H-Index (Scopus): 12

Non Academic Experience

KACAELİ TEKNİK LİSESİ