

Res. Asst. PhD ESRA AKGÜL

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666)

Email: akgul@erciyes.edu.tr

Web: <http://aves.erciyes.edu.tr/akgul/>

Education Information

Doctorate, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği , Turkey 2015 - 2020

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, TEKSTİL MÜHENDİSLİĞİ, Turkey 2015 - 2019

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, ENDÜSTRİ MÜHENDİSLİĞİ , Turkey 2013 - 2015

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, ENDÜSTRİYEL TASARIM MÜHENDİSLİĞİ, Turkey 2013 - 2015

Undergraduate, Erciyes University, Mühendislik Fakültesi, Tekstil Mühendisliği, Turkey 2007 - 2011

Research Areas

Industrial Engineering , Ergonomics and Occupational Safety, Textile Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği , 2020 - Continues

Research Assistant, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği , 2011 - 2020

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Use of Topsis Method for Designing Different Textile Products in Coloration via Natural Source "Madder"**
Akgül E., Bahtiyari M. İ. , Kızılkaya Aydoğan E., Benli H.
Journal Of Natural Fibers, vol.0, no.0, pp.1-15, 2021 (Journal Indexed in SCI Expanded)
- II. **Selection of dual-core yarn production parameters for denim fabric by using MULTIMOORA method**
YILDIRIM N., AKGÜL E., TÜRKSOY H. G.
JOURNAL OF THE TEXTILE INSTITUTE, 2021 (Journal Indexed in SCI)
- III. **Investigation of different denim fabrics with fabric touch tester and sensory evaluation**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.
JOURNAL OF NATURAL FIBERS, 2021 (Journal Indexed in SCI)
- IV. **An application of fuzzy linguistic summarization and fuzzy association rule mining to Kansei Engineering: a case study on cradle design**
AKGÜL E., DELİCE Y., KIZILKAYA AYDOĞAN E., BORAN F. E.
Journal of Ambient Intelligence and Humanized Computing, 2021 (Journal Indexed in SCI)
- V. **Rough Kansei Mining Model for Market-Oriented Product Design**
AKGÜL E., ÖZMEN M., SİNANOĞLU C., Aydogan E. K.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2020, 2020 (Journal Indexed in SCI)
- VI. **Optimization of the Murata Vortex Spinning machine parameters by the SMAA-MOORA approach**

AKGÜL E., ÖZMEN M., Aydogan E. K. , TÜRKSOY H. G.
INDUSTRIA TEXTILA, vol.68, no.5, pp.323-331, 2017 (Journal Indexed in SCI)

VII. MOORA-BASED TAGUCHI OPTIMIZATION FOR SELECTION OF MURATA VORTEX SPINNER MACHINE PARAMETERS

AKGÜL E., KIZILKAYA AYDOĞAN E., Akay D., TÜRKSOY H. G.
TEKSTİL VE KONFEKSİYON, vol.26, no.3, pp.249-255, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

I. KANSEİ VE TEMEL BİLEŞENLER ANALİZİ TABANLI BEŞİK TASARIM STRATEJİLERİNİN OLUŞTURULMASI

AKGÜL E., DELİCE Y., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.

Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.8, no.2, pp.850-856, 2019 (Other Refereed National Journals)

II. KANSEI EVALUATION WITH ROUGH SETS THEORY FOR NEWPRODUCT DEVELOPMENT

AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.

International Journal of Mechanical And Production Engineering, vol.5, pp.103-105, 2017 (Refereed Journals of Other Institutions)

III. Farklı Yapılardaki Dokuma Kumaşların Elektromanyetik Ekranlama Özelliklerinin İncelenmesi

OKYAY G., bilgin s., AKGÜL E., ÖRTLEK H. G.

Tekstil Teknolojileri Elektronik Dergisi, vol.5, no.1, pp.1-10, 2011 (National Refreed University Journal)

Books & Book Chapters

I. Baby Cradle Design with Kansei Knowledge Mining Based on Rough Set Theory

Akgül E., Özmen M., Kızılkaya Aydoğın E., Sinanođlu C.

in: Customer Oriented Product Design, CENGİZ KAHRAMAN,SELÇUK CEBİ, Editor, Springer, London/Berlin , London, pp.469-478, 2020

II. Baby Cradle Design with Kansei Knowledge Mining Based on Rough Set Theory

AKGÜL E., ÖZMEN M., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.

in: Customer Oriented Product Design Intelligent and Fuzzy Techniques, Cengiz Kahraman, Selcuk Cebi Series Editor Janusz Kacprzyk, Editor, SPRINGER NATURE, pp.468-478, 2020

III. Determination of Denim Fabric's Air Permeability with Image Processing Using Fuzzy C Means

Özmen M., Kızılkaya Aydoğın E., Akgül E., Katirciođlu G.

in: Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making, Cengiz KahramanSelcuk CebiSezi Cevik OnarBasar OztaysiA. Cagri TolgaIrem Ucal Sari, Editor, Springer-Verlag , Berlin, pp.1208-1214, 2019

IV. Determination of Denim Fabric's Air Permeability with ImageProcessing Using Fuzzy C Means

Katirciođlu G., KIZILKAYA AYDOĞAN E., ÖZMEN M., AKGÜL E.

in: Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making, Kahraman Cengiz, Cebi Selcuk, Onar Sezi Cevik, Oztaysi Basar, Tolga A. Cagri, Ucal Sari Irem, Editor, SPRINGER, pp.1208-1214, 2019

Refereed Congress / Symposium Publications in Proceedings

I. Determination of Denim Fabric's Air Permeability with Image Processing Using Fuzzy C Means

KATIRCIOĐLU G., KIZILKAYA AYDOĐAN E., ÖZMEN M., AKGÜL E.

In International Conference on Intelligent and Fuzzy Systems, 23 - 25 July 2019

II. Prediction of Air Permeability of Denim Fabrics Using Artificial Neural Networks

AKGÜL E., KIZILKAYA AYDOĐAN E., DELİCE Y.

International Data Science Engineering Symposium, Karabük, Turkey, 2 - 03 May 2019, pp.262

- III. **A Systematic Approach To Develop STEM Toy**
AKGÜL E., SİNANOĞLU C., ATIK Z. N. , YİĞİT F. N. , Özden a.
4th International Conference on Engineering Technology and Applied Sciences Congress, 24 - 28 April 2019
- IV. **The Tendency of The Market In The Furniture Industry For Design**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.
4th International Conference on Engineering Technology and Applied Sciences Congress, 24 - 28 April 2019
- V. **Customer preference based Small Household Appliances selection using MOORA Optimization Approach**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.
3'rd International Symposium on Industrial Design & Engineering, Antalya, Turkey, 22 - 25 November 2018, pp.196-201
- VI. **DETERMINATION OF DENIM FABRICS FOR SUMMER SHIRT USING MULTI-CRITERIA DECISION MAKING**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.
12TH NCM INTERNATIONAL CONFERENCE ON NEW CHALLENGES IN INDUSTRIAL ENGINEERING AND OPERATIONS MANAGEMENT, Ankara, Turkey, 11 - 12 September 2018, pp.66-70
- VII. **Emotional Evaluation of the Iron with Semantic Differential Scale**
AKGÜL E., KIZILKAYA AYDOĞAN E., DELİCE Y.
12.NCMConferences New Challenges in industrial Engineering and Operations Management, 11 - 12 September 2018, pp.71-73
- VIII. **APPLICATION OF ARTIFICIAL NEURAL NETWORKS TO ESTIMATE THE TEAR STRENGTH OF DENIM FABRICS**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.
UMTEB - 2. INTERNATIONAL CONGRESS ON VOCATIONAL AND TECHNICAL SCIENCES, Batum, Georgia, 10 - 13 May 2018, pp.35
- IX. **ESTIMATING OF CUSTOMER PERCEPTIONS WITH ARTIFICIAL NEURAL NETWORK**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.
UMTEB - 2. INTERNATIONAL CONGRESS ON VOCATIONAL AND TECHNICAL SCIENCES, Batum, Georgia, 10 - 13 May 2018, pp.36
- X. **SELECTION OF DENIM FABRICS FOR AS A WORK CLOTHING USING MULTI-CRITERIA DECISION MAKING**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C., AKAY D.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukraine, 2 - 06 May 2018, pp.215
- XI. **PRODUCT DESIGN IMPROVEMENT WITH TAGUCHI METHOD**
AKGÜL E., KIZILKAYA AYDOĞAN E.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukraine, 2 - 06 May 2018, pp.216
- XII. **Kansei Evaluation With Rough Sets Theory For New Product Development**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.
International Conference on Advances in Business Management and Information Technology (ICABMIT), Roma, Italy, 20 - 21 October 2017, pp.52-56
- XIII. **Product Design With Ion Motion Algorithm Based On Kansei Engineering**
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C., ERTEKİN M.
International Symposium on Industrial Design Engineering (ISIDE), Nevşehir, Turkey, 13 - 15 September 2017, pp.216-221
- XIV. **Soğan Kabukları İle Keten Kumaşların Renklendirme Tasarımları**
AKGÜL E., BAHTİYARİ M. İ. , BENLİ H., YILMAZ F.
Uluslararası Geleneksel Sanatlar Sempozyumu "Yazmalardaki El İzleri", Trabzon, Turkey, 20 - 21 April 2017, pp.765-770

- XV. **Yünlü Kumaşların Renklendirilmesinde Doğu Karadeniz Bölgesinden Temin Edilen Siyah Çayın Kullanılması**
YILMAZ F., BAHTİYARİ M. İ. , BENLİ H., AKGÜL E.
Uluslararası Geleneksel Sanatlar Sempozyumu "Yazmalardaki El İzleri", Trabzon, Turkey, 20 - 21 April 2017, pp.646-650
- XVI. **Soğan Kabukları ile Keten Kumaşların Renklendirme Tasarımları**
AKGÜL E., BAHTİYARİ M. İ. , BENLİ H., YILMAZ F.
ULUSLARARASI GELENEKSEL SANATLAR SEMPOZYUMU "Yazmalardaki El İzleri", Trabzon, Turkey, 20 - 21 April 2017, pp.765-770
- XVII. **Stereotaktik Sistem Tasarımı ve İmalatı**
SİNANOĞLU C., AKGÜL E., AKANSU S. O. , TUCER B., PEKER K.
3B Baskı Teknolojileri Uluslararası Sempozyumu, İstanbul, Turkey, 5 - 07 May 2016, pp.45-50
- XVIII. **Ergonomik Kabza Tasarımı ve Uygulaması**
AKGÜL E., KIZILKAYA AYDOĞAN E., AKAY D., SİNANOĞLU C.
3B Baskı Teknolojileri Uluslararası Sempozyumu, İstanbul, Turkey, 5 - 07 May 2016, pp.51-56

Supported Projects

- SİNANOĞLU C., KIZILKAYA AYDOĞAN E., AKGÜL E., AKAY D., Project Supported by Higher Education Institutions, DENİM KUMAŞ ÜRETİM PARAMETRELERİ İLE KONFOR PARAMETRELERİ ARASINDAKİ AKILLI İLİŞKİNİN BELİRLENMESİ, 2018 - Continues
- SİNANOĞLU C., ÖZMEN Ö., AKGÜL E., CERİT A. A. , Project Supported by Higher Education Institutions, 3D optik tarayıcı (CMM) doğruluğunun tarama parametreleri optimizasyonu ve fotogrametri desteği ile artırılması, 2017 - Continues
- Kızilkaya Aydoğan E., TUBITAK Project, GENETİK ALGORİTMA TABANLI GENÇ NESİL MOBİLYASINDA DUYGUSAL TASARIM, 2018 - 2019
- Akgül E., Sinanoğlu C., EU Supported Other Project, "Strategic Partnerships for Embodiment Design Methodology in Vocational Education (Yellow Tulip), 2016 - 2019
- KARAMIŞ M. B. , SİNANOĞLU C., NAİR F., GÖÇER A., HAMAMCI M., SARI F. N. , SAVAŞ S., AKGÜL E., ERTURUN V., DAĞAŞAN BULUCU E., Project Supported by Higher Education Institutions, 9th International Conference on Tribology, 2017 - 2018
- SİNANOĞLU C., HAROĞLU D., ÖZMEN Ö., AKGÜL E., SARI F. N. , TEKİN S. A. , YILMAZ E., Project Supported by Higher Education Institutions, 2'nd International Symposium on Industrial Design & Engineering, 2017 - 2017
- SİNANOĞLU C., KAYA B., AKGÜL E., YILMAZ E., TEKİN S. A. , Project Supported by Higher Education Institutions, Bilgisayar Destekli Tasarım ve Hızlı Prototipleme Araştırma Altyapısının Geliştirilmesi, 2015 - 2016
- CERİT A. A. , SİNANOĞLU C., AKSU Ö., AKGÜL E., EU Supported Other Project, MAKİNA TASARIM VE İMALAT ALANINDA MESLEKİ EĞİTİMİN İÇERİĞİNİN VE KALİTESİNİN ARTTIRILMASI (MUSAVVIR) PROJESİ, 2014 - 2015

Tasks In Event Organizations

- Akgül E., TASARIM FEST'19, Social Activities, Kayseri, Turkey, Mayıs 2019
- Akgül E., 3. Uluslararası Endüstriyel Tasarım ve Mühendislik Sempozyumu (ISIDE 2018), Scientific Congress, Antalya, Turkey, Kasım 2018
- Akgül E., 2'nd International Symposium on Industrial Design & Engineering (ISIDE'17), Scientific Congress, Nevşehir, Turkey, Eylül 2017

Citations

Total Citations (WOS):6
h-index (WOS):1

Awards

AKGÜL E., THE IIER EXCELLENT PAPER AWARD, THE INTERNATIONAL INTITUTE OF ENGINEERING AND RESEARCH, October 2017

AKGÜL E., En iyi inovasyon ödülü, Uluslararası Geleneksel Sanatlar Sempozyumu "Yazmalardaki El İzleri", April 2017

Akgül E., Bölüm Üçüncülüğü, T.C. Erciyes Üniversitesi Mühendislik Fakültesi Tekstil Mühendisliği, June 2011