

## **Assoc. Prof. DERYA HAROĞLU**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AAL-6963-2021

ScopusID: 36679034200

Yoksis Researcher ID: 132789

### **Education Information**

Doctorate, North Carolina State University, College Of Textiles, Textile Technology Management, United States Of America  
2010 - 2014

Postgraduate, Istanbul Technical University, Sosyal Bilimler Enstitüsü, Executive Mba, Turkey 2006 - 2007

Undergraduate, Ege University, Faculty Of Engineering, Tekstil Muhendisligi, Turkey 1998 - 2002

Undergraduate, Ege University, Muhendislik Fakultesi/Tekstil Muhendisligi, Almanca Hazirlik, Turkey 1997 - 1998

### **Foreign Languages**

English, C2 Mastery

### **Certificates, Courses and Trainings**

Other, Laboratuvar Uygulamalarında İmmünolojik Teknikler-I Elisa Teknikleri ve Uygulama Alanları Kursu, Bolu Abant İzzet Baysal Üniversitesi, Yenilikçi Gıda Teknolojileri Geliştirme Uygulama ve Araştırma Merkezi (YENİGİDAM), 2019

Other, Uygulamalı Moleküler Biyoloji ve Hücre Kültürü Kursu, Nişantaşı University ve Atlas Biotechnology, 2018

Other, Temel Mimics Innovation Suite Yazılımı Eğitimi, BTECH Innovation by Design, Medikal 3D Printing ve Mühendislik Hizmetleri, 2018

### **Dissertations**

Doctorate, Polymer Optical Fiber Sensor And The Prediction Of Sensor Response Utilizing Artificial Neural Networks,  
North Carolina State University, College Of Textiles, Textile Technology Management, 2014

### **Research Areas**

Textile Engineering and Technology, Technical Textiles, Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği, 2015 - Continues  
Research Assistant, Erciyes University, Mühendislik Fakültesi, Tekstil Mühendisliği, 2009 - 2015  
Research Assistant, North Carolina State University, College of Textiles, 2010 - 2014

## Academic and Administrative Experience

Erasmus Coordinator, Erciyes University, Mühendislik Fakültesi, Endüstriyel Tasarım Mühendisliği, 2015 - Continues

## Courses

Seminar, Postgraduate, 2018 - 2019  
Industrial Design and Implementation I, Undergraduate, 2018 - 2019  
New Product Development, Undergraduate, 2018 - 2019  
Graduation Project, Undergraduate, 2018 - 2019  
Statistics For Design, Postgraduate, 2018 - 2019  
New Product Development, Undergraduate, 2018 - 2019  
Technical English I, Undergraduate, 2019 - 2020  
Management of New Product Development, Postgraduate, 2018 - 2019  
Ergonomics, Undergraduate, 2018 - 2019  
Industrial Design and Implementation II, Undergraduate, 2018 - 2019  
Statistics, Undergraduate, 2018 - 2019  
Statistics, Undergraduate, 2018 - 2019  
Statistical Methods In Engineering, Doctorate, 2018 - 2019  
Ergonomics, Undergraduate, 2018 - 2019  
High Technology Fibers, Postgraduate, 2018 - 2019

## Advising Theses

Haroğlu D., Three dimensional (3D) modelling of sheep brain and use of 3D printed models in veterinary anatomy education, Postgraduate, B.İŞCAN(Student), 2022  
Haroğlu D., Yeni ürün geliştirme için Kalite Fonksiyon Yayılımı'nın planlama matrisi ve Kano modelinin birlikte kullanılması , Postgraduate, İ.LEBLEBİCİ(Student), 2021

## Jury Memberships

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, March, 2023

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Modeling the air permeability of pile loop knit fabrics using fuzzy logic and artificial neural network**  
Haroğlu D.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.114, no.2, pp.265-272, 2023 (SCI-Expanded)
- II. **Development of a three dimensional (3D) knitted scaffold for myocardial tissue engineering. Part II: biological performance of the knitted scaffolds**  
HAROĞLU D., EKEN A., GÖNEN Z. B., BAHAR D.  
Journal of the Textile Institute, vol.113, no.5, pp.895-905, 2022 (SCI-Expanded)
- III. **Development of a three dimensional (3D) knitted scaffold for myocardial tissue engineering. Part I:**

#### **mechanical performance of the knitted structures**

Haroğlu D.

JOURNAL OF THE TEXTILE INSTITUTE, vol.113, no.5, pp.882-894, 2021 (SCI-Expanded)

**IV. A textile- based optical fiber sensor design for automotive seat occupancy sensing**

Haroglu D., Powell N., Seyam A. M.

JOURNAL OF THE TEXTILE INSTITUTE, vol.108, no.1, pp.49-57, 2017 (SCI-Expanded)

**V. The response of polymer optical fiber (POF) to bending and axial tension for the application of a POF sensor for automotive seat occupancy sensing**

Haroglu D., Powell N., Seyam A. M.

JOURNAL OF THE TEXTILE INSTITUTE, vol.108, no.1, pp.132-139, 2017 (SCI-Expanded)

**VI. The response of polymer optical fiber (POF) to cyclic loading for the application of a POF sensor for automotive seat occupancy sensing**

Haroglu D., Powell N., Seyam A. M.

JOURNAL OF THE TEXTILE INSTITUTE, vol.108, no.1, pp.42-48, 2017 (SCI-Expanded)

**VII. Analysis of the CIE whiteness and whiteness tint of optically whitened cellulosic fabrics**

Tutak M., Demiryurek O., Bulut S., Haroğlu D.

TEXTILE RESEARCH JOURNAL, vol.81, no.1, pp.58-66, 2011 (SCI-Expanded)

#### **Articles Published in Other Journals**

**I. In Vitro Evaluation Of A Pile Loop Knitted Scaffold For Myocardial Tissue Engineering Using C2C12 Cells**

Haroğlu D.

TEKSTİL VE MUHENDİS, vol.29, no.128, pp.199-207, 2022 (Scopus)

**II. Use Of Three Dimensional (3D) Printed Models Of Sheep Brain In Online Veterinary Anatomy Education**

Haroğlu D., İscan B., Düzler A.

International Journal of 3D Printing Technologies and Digital Industry, vol.6, no.3, pp.370-381, 2022 (Peer-Reviewed Journal)

**III. An Approach Integrating Kano Model And Fuzzy Logic Into The Planning Matrix Of Quality Function Deployment: An Application For The Design of a Baby Diaper**

Haroğlu D., Leblebici İ.

ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, vol.9, no.3, pp.433-450, 2021 (Peer-Reviewed Journal)

**IV. Prioritizing Sensor Performance Characteristics for Automotive Seat Weight Sensors in Quality Function Deployment (QFD)**

HAROĞLU D., Powell N., Seyam A. F. M.

Advances in Automobile Engineering, vol.5, pp.153, 2016 (Peer-Reviewed Journal)

#### **Refereed Congress / Symposium Publications in Proceedings**

**I. In Vitro Evaluation Of A Three Dimensional (3D) Knitted Scaffold For Tissue Engineering**

Haroğlu D.

International Textile & Fashion Congress, İstanbul, Turkey, 16 - 17 March 2023, pp.101-109

**II. Predicting Air Permeability Of Pile Loop Knit Fabrics Using Fuzzy Logic With Type-2 Fuzzy Inference System**

Haroğlu D.

AUTEX 2022 21st Textile Conference, Lodz, Poland, 7 - 10 June 2022, pp.310-315

**III. Three Dimensional Printing In The Field Of Medicine**

HAROĞLU D.

3'rd International Symposium on Industrial Design & Engineering, Antalya, Turkey, 22 - 25 November 2018, pp.1-5

**IV. Textile Based Scaffolds for Cardiac Tissue Engineering**

HAROĞLU D.

ISIDE 2nd International Symposium on Industrial Design & Engineering, Nevşehir, Turkey, 13 - 15 September 2017, pp.1

**V. Prioritizing Sensor Performance Characteristics for Automotive Seat Weight Sensors in Quality Function Deployment (QFD)**

HAROĞLU D., Powell N., Seyam A. M.

2nd International Conference and Exhibition on Automobile Engineering, Valencia, Spain, 1 - 02 December 2016, pp.32

**VI. The Response of Polymer Optical Fiber (POF) to Bending and Axial Tension for the Application of a 3D Multilayer Fabric Based Fiber Optic Sensor for the Automotive Industry**

HAROĞLU D., Powell N., Seyam A. M.

Sixth World Conference on 3D Fabrics and their Applications, Raleigh, United States Of America, 26 - 28 May 2015, pp.1-9

## Supported Projects

HAROĞLU D., EKEN A., GÖNEN Z. B., BAĞDAŞ H., İLBEYLİ H., Project Supported by Higher Education Institutions, Miyokard doku rejenerasyonu için tekstil temelli bir iskele, 2018 - 2021

Haroğlu D., Sinanoğlu C., Erasmus Project, Strategic Partnerships for Embodiment Design Methodology in Vocational Education, 2016 - 2019

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

## Patent

Haroğlu D., Eken A., Gönen Z. B., Bağdaş H., İlbeyli H., MYOCARDIUM REJENERASYONU İÇİN TEKSTİL TEMELLİ BİR KARDİYAK YAMA, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2020 12929 B , Standard Registration, 2022

Haroğlu D., Azeez M. B. A., Sulu boya seti, Industrial Design, CHAPTER A Human Needs, The Invention Registration Number: 2022 008868 , Standard Registration, 2022

## Activities in Scientific Journals

World Journal of Textile Engineering & Technology, Evaluation Committee Member, 2021 - 2022

## Scientific Refereeing

TUBITAK Project, 2209-B - Sanayiye Yönelik Lisans Araştırma Projeleri Destekleme Programı, Erciyes University, Turkey, September 2021

CONCURRENT ENGINEERING-RESEARCH AND APPLICATIONS, SCI Journal, June 2021

MATERIALS RESEARCH EXPRESS, Journal Indexed in SCI-E, August 2019

ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, August 2018

## **Mobility Activity**

Erasmus Programme, Staff Mobility, Akademia Gorniczo-Hutnicza (AGH), Poland, 2019 - 2019

## **Metrics**

Publication: 17

Citation (WoS): 21

Citation (Scopus): 31

H-Index (WoS): 3

H-Index (Scopus): 3

## **Scholarships**

Doctoral Fellowship / Graduate Student Support Plan (GSSP), University, 2010 - 2014

## **Non Academic Experience**

KİPAŞ Denim

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