

## Asst. Prof. Gülşah TMKL ZYER

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Bilgisayar Mhendislięi, Turkey 2002 - 2012

Undergraduate, Erciyes University, Mhendislik Fakltesi, Bilgisayar Mhendislięi, Turkey 1997 - 2001

### Foreign Languages

English, C1 Advanced

### Research Areas

Computer Sciences, Computer Vision, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Human Computer Interaction, Text/Document Processing, Pattern Recognition and Image Processing, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Ataturk University, Mhendislik Fakltesi, Bilgisayar Mhendislięi, 2013 - Continues

Research Assistant, Middle East Technical University, Faculty Of Engineering, Bilgisayar Mhendislięi, 2002 - 2013

### Courses

Bitirme Projesi II (), Undergraduate, 2020 - 2021

Bilgisayar Mhendislięi Seęmeli Tasarım I (), Undergraduate, 2021 - 2022

Bitirme Projesi I (), Undergraduate, 2021 - 2022

Programlamaya Giriş (), Undergraduate, 2021 - 2022

Nesneye Ynelik Programlama (), Undergraduate, 2020 - 2021

Metin Sınıflandırma, Postgraduate, 2021 - 2022

Bilgisayar Mhendislięi Seęmeli Tasarım II (), Undergraduate, 2020 - 2021

Bilgisayarlı Grme, Doctorate, 2020 - 2021

## ADVISING 1 NESSES

Tümüklü Özyer G., Duygu analizi problemi için geleneksel ve derin transfer makine öğrenmesi yöntemlerinin karşılaştırılması, Postgraduate, N.YILDIZLI(Student), 2021

Tümüklü Özyer G., Video görüntülerinden sperm hareketlerinin otomatik takibi ve analizi, Postgraduate, İ.ALARABI(Student), 2020

TÜMÜKLÜ ÖZYER G., Dengesiz Veri Setlerinde Trafik İşaretlerini Tanıma, Postgraduate, Y.Aydın(Student), 2016

TÜMÜKLÜ ÖZYER G., Metin Sınıflandırma Teknikleri ile Türkçe Twitter Duygu Analizi, Postgraduate, Ö.Çoban(Student), 2016

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

- I. **A hybrid IMM-JPDAF algorithm for tracking multiple sperm targets and motility analysis**  
TÜMÜKLÜ ÖZYER G., ÖZYER B., Negin F., Alarabi I., Agahian S.  
NEURAL COMPUTING & APPLICATIONS, vol.34, no.20, pp.17407-17421, 2022 (SCI-Expanded)
- II. **The effect of population and tourism factors on Covid-19 cases in Italy: Visual data analysis and forecasting approach**  
Uguz S., Yağanoğlu M., Özyer B., Tümüklü Özyer G., Tokdemir G.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.6, 2022 (SCI-Expanded)
- III. **Vision-assisted recognition of stereotype behaviors for early diagnosis of Autism Spectrum Disorders**  
Negin F., ÖZYER B., Agahian S., Kacdioglu S., Ozyer G. T.  
NEUROCOMPUTING, vol.446, pp.145-155, 2021 (SCI-Expanded)
- IV. **Robust landmine detection from thermal image time series using Hough transform and rotationally invariant features**  
Kaya S., LELOĞLU U. M., Ozyer G.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.41, no.2, pp.725-739, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Foto-Kapan Görüntülerinde Derin Öğrenme Tabanlı İnsan Tespiti**  
Şimşek E., Özyer B., Tümüklü Özyer G.  
Bayburt Fen Bilimleri Dergisi , vol.3, no.1, pp.1-8, 2020 (Peer-Reviewed Journal)
- II. **Hareketli Nesne Tespitinin Örüntü Tanıma Yöntemleri ile İyileştirilmesi**  
Şimşek E., Tümüklü Özyer G., Özyer B.  
Bayburt Fen Bilimleri Enstitüsü, vol.3, no.1, pp.9-15, 2020 (Peer-Reviewed Journal)
- III. **Fotokapan Görüntülerinde Yerel Öznitelikler ile Nesne Tespiti**  
ŞİMŞEK E., ÖZYER B., TÜMÜKLÜ ÖZYER G.  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, no.4, pp.633-644, 2019 (Peer-Reviewed Journal)
- IV. **Foto-kapan Görüntülerinde Hareketli Nesne Tespiti ve Konumunun Belirlenmesi**  
Şimşek E., Özyer B., Tümüklü Özyer G.  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.902-919, 2019 (Peer-Reviewed Journal)
- V. **The impact of term weighting method on Twitter sentiment analysis**  
ÇOBAN Ö., TÜMÜKLÜ ÖZYER G.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.24, no.2, pp.283-291, 2018 (ESCI)
- VI. **Twitter duygu analizinde terim ağırlıklandırma yönteminin etkisi**  
ÇOBAN Ö., TÜMÜKLÜ ÖZYER G.  
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, no.2, pp.283-291, 2018 (Peer-Reviewed Journal)
- VII. **Traffic Sign Recognition System for Imbalanced Dataset**  
AYDIN Y., ÖZDEMİR D., TÜMÜKLÜ ÖZYER G.

VIII. **Direction and Position Reconstruction on Mobile Robots**

Şimşek E., Tümüklü Özyer G., Özyer B.

Balkan Journal of Electrical and Computer Engineering, vol.3, 2015 (Peer-Reviewed Journal)

**Refereed Congress / Symposium Publications in Proceedings**

- I. **Recognition of Electronic Circuit Components Using a Modern Convolutional Object Detector**  
KILIÇ U., DEMİR Y., KAPLAN N. H., TÜMÜKLÜ ÖZYER G.  
1st International Conference on Advances in Engineering, Architecture, Science and Technology, Erzurum, Turkey, 15 December 2021
- II. **Extracting face measurements on children for adhd classification**  
Esin İ. S., Dursun O. B., Özyer B., Tümüklü Özyer G., Aktaş H., Öztürk S. B., Doğru H.  
12th International Congress on Psychopharmacology & 8th International Symposium on Child and Adolescent Psychopharmacology (ICP 2021), Antalya, Turkey, 17 - 20 November 2021
- III. **Annotated Corpus of Comments and Basic Semantic Analysis**  
Çelik S., Tümüklü Özyer G.  
IEEE 2nd International Conference on Computing and Data Science, California, United States Of America, 28 - 29 January 2021, pp.1-4
- IV. **Recognizing Self-Stimulatory Behaviours for Autism Spectrum Disorders**  
Kaçdioğlu S., Özyer B., Tümüklü Özyer G.  
28th Signal Processing and Communications Applications Conference (SIU), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-5
- V. **Kinect Sensörü ile Robot Manipulator Kontrolü**  
ŞİMŞEK E., TÜMÜKLÜ ÖZYER G., ÖZYER B.  
5. Türkiye Robotbilim Konferansı (ToRK 2019), İstanbul, Turkey, 26 - 28 June 2019
- VI. **Engel Üzerinden Zıplayan Zıpzıp Robot**  
Aydın Y. E., TÜMÜKLÜ ÖZYER G., ÖZYER B.  
5. Türkiye Robotbilim Konferansı (ToRK 2019), İstanbul, Turkey, 26 - 28 June 2019, pp.1
- VII. **Sperm detection and analysis using feature description algorithms**  
KESKENLER M. F., ÖZYER B., HAŞILOĞLU A., TÜMÜKLÜ ÖZYER G.  
27. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Sivas, Turkey, 24 - 26 April 2019, pp.1
- VIII. **A Comparison of Performance Metrics of Turkish Twitter Messages Using Text Representations**  
KARCIOĞLU A. A., AYDIN T., TÜMÜKLÜ ÖZYER G.  
1. International Technological Sciences And Desing Symposium, Giresun, Turkey, 27 - 29 June 2018, pp.433-444
- IX. **Animal Detection in Camera-Trap Images**  
ŞİMŞEK E., ÖZYER B., TÜMÜKLÜ ÖZYER G., BAYINDIR L.  
1. ULUSLARARASI TEKNOLOJİ BİLİMLERİ VE TASARIM SEMPOZYUMU, 27 - 29 June 2018
- X. **Human-Animal Recognition in Camera Trap Images**  
Simsek E., ÖZYER B., BAYINDIR L., TÜMÜKLÜ ÖZYER G.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XI. **Word2vec and Clustering based Twitter Sentiment Analysis**  
Coban O., TÜMÜKLÜ ÖZYER G.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XII. **Traffic Sign Recognition System For Imbalanced Dataset**  
AYDIN Y., ÖZDEMİR D., TÜMÜKLÜ ÖZYER G.  
International Conference on Computer and Information Technology (ICCIT 2016), 19 - 21 May 2016
- XIII. **Balancing inverted pendulum using reinforcement algorithms**  
ÖZAKAR R., TÜMÜKLÜ ÖZYER G., ÖZYER B.

2016 24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, Turkey, 16 - 19 May 2016

- XIV. **Music Genre Classification from Turkish Lyrics**  
ÇOBAN Ö., TÛMÛKLÛ ÖZYER G.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.101-104
- XV. **Sentiment Classification for Turkish Twitter Feeds using LDA**  
ÇOBAN Ö., TÛMÛKLÛ ÖZYER G.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.129-132
- XVI. **Traffic Sign Recognition Using Scale Invariant Feature Transform and Bagging Based Ensemble**  
AYDIN Y., TÛMÛKLÛ ÖZYER G., Ozdemir D.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.605-608
- XVII. **Direction and Position Reconstruction on Mobile Robots**  
ŞİMŞEK E., TÛMÛKLÛ ÖZYER G., ÖZYER B.  
International Engineering Research Symposium, 10 - 12 September 2015
- XVIII. **Gezgin Robotlar İçin Görüntü İşleme ve Çizge Tabanlı Engel ve Minimum Rota Yön Bulma Yöntemi**  
ŞİMŞEK E., TÛMÛKLÛ ÖZYER G., ÖZYER B.  
2. Ulusal Yönetim Bilişim Sistemleri Kongresi, Turkey, 8 - 10 October 2015
- XIX. **SMS spam filtering based on text classification and expert system**  
BOZAN Y. S., ÇOBAN Ö., TÛMÛKLÛ ÖZYER G., ÖZYER B.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1-4
- XX. **Sentiment analysis for Turkish Twitter feeds**  
Çoban Ö., Özyer B., Tümüklü Özyer G.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 May 2015, pp.1-4
- XXI. **Estimation of center of mass of the object to be held by barycentric coordinate system and polygon parcelling**  
BOZAN Y. S., TÛMÛKLÛ ÖZYER G., ÖZYER B.  
23rd Signal Processing and Communications Applications (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1-4
- XXII. **A Comparison of Similarity Metrics for Sentiment Analysis on Turkish Twitter Feeds**  
ÇOBAN Ö., ÖZYER B., TÛMÛKLÛ ÖZYER G.  
2015 IEEE International Conference on Smart City/SocialCom/SustainCom (SmartCity), Chengdu, China, 19 - 21 December 2015, pp.333-338
- XXIII. **A Content Based Image Retrieval system using Visual Attention**  
TÛMÛKLÛ ÖZYER G., YARMAN VURAL F. T.  
2010 IEEE 18th Signal Processing and Communications Applications Conference, Diyarbakir, Turkey, Turkey, 22 - 24 April 2010

## Supported Projects

TÛMÛKLÛ ÖZYER G., Project Supported by Higher Education Institutions, Mimik ve Vücut Hareketleri Algılanarak Duygu İncelenmesi, 2020 - 2021

## Metrics

Publication: 40

Citation (WoS): 11

Citation (Scopus): 22

H-Index (WoS): 3

H-Index (Scopus): 3