

## Asst. Prof. YILDIRAY ANAGÜN



### Personal Information

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### International Researcher IDs

ScholarID: ksTsugIAAAAJ

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Publons / Web Of Science ResearcherID: AAH-6965-2021

ScopusID: 55293387500

Yoksis Researcher ID: 170954

### Education Information

Doctorate, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü, Turkey 2007 - 2018

Postgraduate, Kütahya Dumlupınar University, Graduate School Of Natural And Applied Sciences, Elektrik - Elektronik Mühendisliği, Turkey 2004 - 2007

Undergraduate, Cankaya University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 1999 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Düşük çözünürlüklü video sahnelerinden yüksek çözünürlüklü video sahnelerinin elde edilmesi, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü, 2018

Postgraduate, Üç-sıralı istemci-sunucu mimarisinde Web servisleri kullanımı ve uygulaması, Dumlupınar Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2007

### Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Knowledge Engineering, Computer Learning, Pattern Recognition and Image Processing, Neural Networks, Engineering and Technology

### Academic Titles / Tasks

Lecturer PhD, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ, 2007 - Continues

Research Assistant, Kütahya Dumlupınar University, Faculty of Engineering, Computer Engineering, 2004 - 2007

## Courses

152112007 ENGINEERING GRAPHICS (A), Undergraduate, 2017 - 2018, 2016 - 2017  
152112011 COMPUTER PROGRAMMING LAB. (A), Undergraduate, 2017 - 2018, 2016 - 2017  
152112016 COMPUTER PROGRAMMING (B), Undergraduate, 2017 - 2018, 2016 - 2017  
152112011 COMPUTER PROGRAMMING LAB. (B), Undergraduate, 2017 - 2018, 2016 - 2017  
152118626 ENGINEERING RESEARCH ON DATABASE APPS (A), Undergraduate, 2017 - 2018, 2016 - 2017  
152111011 INTRODUCTION TO PROGRAMMING LAB. (A), Undergraduate, 2017 - 2018, 2016 - 2017  
152111019 INTRODUCTION TO PROGRAMMING (B), Undergraduate, 2017 - 2018, 2016 - 2017  
152112007 ENGINEERING GRAPHICS (B), Undergraduate, 2017 - 2018, 2016 - 2017  
152112016 COMPUTER PROGRAMMING (A), Undergraduate, 2017 - 2018, 2016 - 2017  
152111019 INTRODUCTION TO PROGRAMMING (A), Undergraduate, 2017 - 2018, 2016 - 2017  
152111011 INTRODUCTION TO PROGRAMMING LAB. (B), Undergraduate, 2017 - 2018, 2016 - 2017

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

- I. **CVApool: using null-space of CNN weights for the tooth disease classification**  
Can Z., Isik S., Anagun Y.  
NEURAL COMPUTING AND APPLICATIONS, vol.36, no.26, pp.16567-16579, 2024 (SCI-Expanded)
- II. **Fabric defects identification for textile industry with a deep learning approach**  
Guder O., Işık Ş., Anagün Y.  
Journal of the Textile Institute, 2024 (SCI-Expanded)
- III. **Predicting compressor mass flow rate using various machine learning approaches**  
Yazar I., Anagün Y., Işık Ş.  
International Journal of Turbo and Jet Engines, 2024 (SCI-Expanded)
- IV. **Predicting Soil Quality Index with a Deep Regression Approach**  
Işık Ş., Turgut B., Anagün Y., Olgun M.  
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.55, pp.1313-1323, 2024 (SCI-Expanded)
- V. **Smart brain tumor diagnosis system utilizing deep convolutional neural networks**  
Anagün Y.  
Multimedia Tools and Applications, vol.82, no.28, pp.44527-44553, 2023 (SCI-Expanded)
- VI. **Predicting soil EC using spectroscopy and smartphone-based digital images**  
GÖZÜKARA G., ANAGÜN Y., IŞIK Ş., Zhang Y., Hartemink A. E.  
CATENA, vol.231, 2023 (SCI-Expanded)
- VII. **Surface roughness classification of electro discharge machined surfaces with deep ensemble learning**  
ANAGÜN Y., IŞIK Ş., Hayati Çakir F. H.  
Measurement: Journal of the International Measurement Confederation, vol.215, 2023 (SCI-Expanded)
- VIII. **Evaluation of EfficientNet models for COVID-19 detection using lung parenchyma**  
Kurt Z., IŞIK Ş., KAYA Z., ANAGÜN Y., Koca N., Çiçek S.  
Neural Computing and Applications, vol.35, no.16, pp.12121-12132, 2023 (SCI-Expanded)
- IX. **The classification of wheat species based on deep convolutional neural networks using scanning electron microscope (SEM) imaging**  
Anagün Y., Işık Ş., Olgun M., Sezer O., Basciftci Z., Arpacioğlu N. G. A.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.249, no.4, pp.1023-1034, 2023 (SCI-Expanded)

- X. **DEEP LEARNING-BASED CUSTOMER COMPLAINT MANAGEMENT**  
Anagün Y., Bolel N. S., Işık Ş., Ozkan S. E.  
JOURNAL OF ORGANIZATIONAL COMPUTING AND ELECTRONIC COMMERCE, vol.32, no.3-4, pp.217-231, 2022 (SCI-Expanded)
- XI. **SRLibrary: Comparing different loss functions for super-resolution over various convolutional architectures**  
ANAGÜN Y., IŞIK Ş., SEKE E.  
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.61, pp.178-187, 2019 (SCI-Expanded)
- XII. **Multi-frame super-resolution algorithm using common vector approach**  
SEKE E., ANAGÜN Y., ADAR N.  
IET IMAGE PROCESSING, vol.12, no.12, pp.2292-2299, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ensemble learning application for textile defect detection**  
Guder O., Isik S., Anagün Y.  
International Journal of Applied Methods in Electronics and Computers, vol.11, no.3, pp.145-150, 2023 (Peer-Reviewed Journal)
- II. **Contribution Analysis of Optimization Methods on Super-Resolution**  
ANAGÜN Y., IŞIK Ş.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.21, no.6, pp.1343-1352, 2021 (Peer-Reviewed Journal)
- III. **A Deep Learning Based Sleepness And Wakefulness Detection for Drivers**  
IŞIK Ş., ANAGÜN Y.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.29, no.3, pp.311-315, 2021 (Peer-Reviewed Journal)
- IV. **Spam E-mail Classification Recurrent Neural Networks for Spam E-mail Classification on an Agglutinative Language**  
IŞIK Ş., KURT Z., ANAGÜN Y., ÖZKAN K.  
International Journal of Intelligent Systems and Applications in Engineering, vol.8, no.4, pp.221-227, 2020 (Scopus)
- V. **REAL TIME PEDESTRIAN ALERT SYSTEM FOR VEHICLES**  
IŞIK Ş., VATANSEVER G., ANAGÜN Y., ÇELİKHAN M., ÖZKAN K.  
Eskişehir Technical University Journal of Science and Technology A - Applied Sciences and Engineering, vol.21, no.3, pp.446-453, 2020 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Hafif Evrimsel Sinir Ağı İle Tırnak Hastalığı Sınıflandırması**  
IŞIK Ş., CAN Z., ANAGÜN Y., GÜDER O.  
16. Uluslararası Sağlıkta Kalite, Akreditasyon Ve Hasta Güvenliği Kongresi, Antalya, Turkey, 22 - 25 May 2022
- II. **Computer-Aided Embryo Quality Determination In Vitro Fertilization (IVF) Treatment**  
ANAGÜN Y., IŞIK Ş.  
16th International Congress on Quality in Healthcare, Accreditation and Patient Safety, Antalya, Turkey, 22 May 2022, pp.74
- III. **Deep Neural Network Framework for Automatic Brain Tumor Segmentation Using Magnetic Resonance Images**  
ANAGÜN Y., IŞIK Ş.  
Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22 April 2022, pp.3-4
- IV. **Artificial Intelligence Based Brain Tumor Diagnosis System**

ANAGÜN Y., IŞIK Ş.

Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22 April 2022, pp.5-6

- V. **Classification of Customer Complaints with Deep Learning**  
Anagün Y.  
International Conference on Engineering Technologies (ICENTE'20), Konya, Turkey, 19 - 21 November 2020, pp.50-54
- VI. **Interpretation of Turkish Sign Language with Deep Learning and Mobile Application**  
Anagün Y.  
International Conference on Engineering Technologies (ICENTE'20), Konya, Turkey, 19 - 21 November 2020, pp.47-49
- VII. **One-Sample-Based Face Recognition Using Deep Learning**  
Anagün Y.  
9th International Conference on Engineering and Natural Sciences (ISPEC), Ankara, Turkey, 13 - 15 November 2020, pp.108-109
- VIII. **Image Enhancement with Outlier Detection**  
Anagün Y., Adar N., Seke E.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- IX. **Video Super-Resolution Based on Block Motion Estimation and Gradient Magnitude**  
ANAGÜN Y., SEKE E., ADAR N.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.77-82
- X. **Super resolution using variable size block matching motion estimation with rotation**  
Anagün Y., Seke E.  
2012 International Symposium on Innovations in Intelligent Systems and Applications, Trabzon, Turkey, 2 - 04 July 2012
- XI. **Super resolution using block-matching motion estimation with rotation**  
Anagün Y., Seke E.  
2012 20th Signal Processing and Communications Applications Conference (SIU), Muğla, Turkey, 18 - 20 April 2012
- XII. **Locus Travel: A Three-Tier Architecture Approach for Bus Travel E-commerce**  
Anagün Y., Özmen A.  
International Conference on Semantic Web Web Services, SWWS 2007, Nevada, United States Of America, 25 - 27 June 2007, pp.139-143

## Supported Projects

YAZAR I., ANAGÜN Y., IŞIK Ş., Project Supported by Higher Education Institutions, ÇEŞİTLİ MAKİNE ÖĞRENME YAKLAŞIMLARI KULLANILARAK KOMPRESÖR KÜTLE DEBİSİNİN TAHMİN EDİLMESİ, 2023 - 2024

## Metrics

Publication: 29

Citation (WoS): 71

Citation (Scopus): 108

H-Index (WoS): 5

H-Index (Scopus): 5