

## **Doç. Dr. MEHMET SERDAR GÜZEL**

### **Kişisel Bilgiler**

**E-posta:** mguzel@ankara.edu.tr

**Web:** <https://avesis.ankara.edu.tr/mguzel>

### **Uluslararası Araştırmacı ID'leri**

ScholarID: VmGlKggAAAAJ

ORCID: 0000-0002-3408-0083

Publons / Web Of Science ResearcherID: AAI-7466-2020

ScopusID: 36349844700

Yoksis Araştırmacı ID: 107791

### **Eğitim Bilgileri**

Doktora, University of Newcastle Upon Tyne, Mekanik Ve Sistem Mühendisliği, Birleşik Krallık 2008 - 2012

Yüksek Lisans, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Türkiye 2006 - 2008

Lisans, Başkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Türkiye 2001 - 2004

### **Yaptığı Tezler**

Doktora, Mobile Robot Navigation using a Vision based Approach, University of Newcastle Upon Tyne, Mekanik Ve Sistem Mühendisliği, 2012

Yüksek Lisans, ALTI EKSENLİ ROBOT KOLUN HAREKETSEL KARAKTERİSTİKİNİN GÖRSEL PROGRAMLANMASI GERÇEK ZAMANLI UYGULAMALAR, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2008

### **Akademik Unvanlar / Görevler**

Yrd.Doç.Dr., Ankara Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2014 - Devam Ediyor  
Araştırma Görevlisi, Ankara Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2006 - 2014

### **Akademik İdari Deneyim**

Ankara Üniversitesi, 2014 - Devam Ediyor

### **Verdiği Dersler**

RESEARCH TECHNIQUES 1, Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016

ALGORITHMS 1, Lisans, 2017 - 2018, 2016 - 2017

PROGRAMMING LANGUAGES, Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

OBJECT ORIENTED PROGRAMMING, Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

SAYISAL GÖRÜNTÜ İŞLEME, Yüksek Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016

ARAŞTIRMA TEKNİKLERİ 1, Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016

ARAŞTIRMA TEKNİKLERİ 2, Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015

RESEARCH TECHNIQUES 2, Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015

AUTOMATA THEORY, Lisans, 2015 - 2016

DIGITAL IMAGE PROCESSING, Lisans, 2014 - 2015

SAYISAL GÖRÜNTÜ İŞLEME, Lisans, 2014 - 2015

ROBOTİCS, Lisans, 2014 - 2015, 2013 - 2014

ROBOTİK, Lisans, 2013 - 2014

## **Yönetilen Tezler**

GÜZEL M. S., İkili kamera ile video özeti yaklaşımı, Yüksek Lisans, T.DİLBER(Öğrenci), 2021

GÜZEL M. S., Doğal dil işleme ile Türkçe içerikli paylaşımlardan sosyal medya kullanıcılarının duygusal analizi, Yüksek Lisans, Ç.BALLI(Öğrenci), 2021

GÜZEL M. S., Eğitim amaçlı robotik uygulama geliştirme ortamı, Yüksek Lisans, M.KARAKAYA(Öğrenci), 2020

GÜZEL M. S., Döner kanatlı insansız hava araçları ile görsel verilere dayalı erken yanın algılama sistemi, Yüksek Lisans, A.DEMİRTAŞ(Öğrenci), 2019

GÜZEL M. S., Makine öğrenmesi ile sürü robotları için savaş stratejisi modeli, Yüksek Lisans, Ü.ULUSOY(Öğrenci), 2019

GÜZEL M. S., Pekiştirmeli öğrenme tabanlı robotlar ile yeni bir robocode savaş stratejisi, Yüksek Lisans, H.KAYAKÖKÜ(Öğrenci), 2019

GÜZEL M. S., Medikal görüntüler için yeni bir bölütleme algoritması ve analiz uygulaması, Yüksek Lisans, S.CAN(Öğrenci), 2018

GÜZEL M. S., İnsanın yüz mimiklerinden durum analizi yapma, Yüksek Lisans, B.EMEK(Öğrenci), 2017

GÜZEL M. S., Gerçek zamanlı konum belirleme uygulaması, Yüksek Lisans, E.MERAL(Öğrenci), 2017

GÜZEL M. S., Derin öğrenme ile yüz tanıma, Yüksek Lisans, F.ZEHRA(Öğrenci), 2017

GÜZEL M. S., Ekonomide öncü göstergeler ile büyümeye tahmini uygulaması, Yüksek Lisans, E.DÜLGER(Öğrenci), 2016

GÜZEL M. S., Oğul robotları yön bulma problemi, Yüksek Lisans, M.KARA(Öğrenci), 2016

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

### **I. Optimization of synchrotron radiation parameters using swarm intelligence and evolutionary algorithms**

Karaca A. S., BOSTANCI G. E., KETENOĞLU D., Harder M., CANBAY A. C., KETENOĞLU B., Eren E., AYDIN A., Yin Z., GÜZEL M. S., et al.

Journal of Synchrotron Radiation, cilt.31, sa.Pt 2, ss.420-429, 2024 (SCI-Expanded)

### **II. Deep Learning in Diagnosis of Dental Anomalies and Diseases: A Systematic Review**

Sivari E., Senirkentli G. B., BOSTANCI G. E., GÜZEL M. S., AÇICI K., Asuroglu T.

Diagnostics, cilt.13, sa.15, 2023 (SCI-Expanded)

### **III. Multilabel Genre Prediction Using Deep-Learning Frameworks**

Ünal F. Z., Güzel M. S., Bostancı G. E., Açıci K., Aşuroğlu T.

APPLIED SCIENCES, cilt.13, sa.15, ss.1-21, 2023 (SCI-Expanded)

### **IV. Deep-Learning-Based Approaches for Semantic Segmentation of Natural Scene Images: A Review**

Emek Soylu B., Güzel M. S., Bostancı G. E., Ekinci F., Aşuroğlu T., Açıci K.

ELECTRONICS (Basel), cilt.12, sa.12, ss.1-49, 2023 (SCI-Expanded)

### **V. Machine learning based orthodontic treatment planning for mixed dentition borderline cases suffering from moderate to severe crowding: An experimental research study**

Senirkentli B., Bingöl S. İ., Ünal M., Bostancı G. E., Güzel M. S., Açıci K.

TECHNOLOGY AND HEALTH CARE, cilt.2023, sa.2023, ss.1-13, 2023 (SCI-Expanded)

### **VI. A New Approach for Gastrointestinal Tract Findings Detection and Classification: Deep Learning-Based Hybrid Stacking Ensemble Models**

Sivari E., BOSTANCI G. E., GÜZEL M. S., AÇICI K., Asuroglu T., Ercelebi Ayyıldız T.

- DIAGNOSTICS, cilt.13, sa.4, 2023 (SCI-Expanded)
- VII. **A Monte Carlo Study for Soft Tissue Equivalency of Potential Polymeric Biomaterials Used in Carbon Ion Radiation Therapy**  
Ekinci F., BOSTANCI G. E., GÜZEL M. S., DAĞLI Ö.  
Nuclear Technology, cilt.209, sa.8, ss.1229-1239, 2023 (SCI-Expanded)
- VIII. **Common Thorax Diseases Recognition Using Zero-Shot Learning With Ontology in the Multi-Labeled ChestX-ray14 Data Set**  
Soysal O. A., GÜZEL M. S., Dikmen M., BOSTANCI G. E.  
IEEE Access, cilt.11, ss.27883-27892, 2023 (SCI-Expanded)
- IX. **A NEW ALGORITHM FOR OPTIMAL SOLUTION OF FIXED CHARGE TRANSPORTATION PROBLEM**  
Kartli N., Bostancı E., GÜZEL M. S.  
KYBERNETIKA, cilt.59, sa.1, ss.45-63, 2023 (SCI-Expanded)
- X. **Cloudy/clear weather classification using deep learning techniques with cloud images**  
KALKAN M., BOSTANCI G. E., GÜZEL M. S., Kalkan B., ÖZSARI Ş., Soysal O., Kose G.  
COMPUTERS & ELECTRICAL ENGINEERING, cilt.102, 2022 (SCI-Expanded)
- XI. **Sentimental Analysis of Twitter Users from Turkish Content with Natural Language Processing**  
Ballı C., GÜZEL M. S., BOSTANCI G. E., Mishra A.  
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, cilt.2022, 2022 (SCI-Expanded)
- XII. **A Novel Hybrid Machine Learning Based System to Classify Shoulder Implant Manufacturers**  
Sivari E., GÜZEL M. S., BOSTANCI G. E., Mishra A.  
HEALTHCARE, cilt.10, sa.3, 2022 (SCI-Expanded)
- XIII. **An Effective Medical Image Classification: Transfer Learning Enhanced by Auto Encoder and Classified with SVM**  
Sevinç Ö., Mehrubeoglu M., Güzel M. S., Askerzade İ.  
TRAITEMENT DU SIGNAL, cilt.39, sa.1, ss.125-131, 2022 (SCI-Expanded)
- XIV. **A Low-Cost Q-Learning-Based Approach to Handle Continuous Space Problems for Decentralized Multi-Agent Robot Navigation in Cluttered Environments**  
Ajabshir V. B., GÜZEL M. S., BOSTANCI G. E.  
IEEE ACCESS, cilt.10, ss.35287-35301, 2022 (SCI-Expanded)
- XV. **Development of a hybrid system based on ABC algorithm for selection of appropriate parameters for disease diagnosis from ECG signals**  
Ersoy E., BOSTANCI G. E., GÜZEL M. S.  
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.30, sa.5, ss.1788-1803, 2022 (SCI-Expanded)
- XVI. **A Novel Behavioral Strategy for RoboCode Platform Based on Deep Q-Learning**  
Kayakoku H., GÜZEL M. S., BOSTANCI G. E., Medeni I. T., Mishra D.  
COMPLEXITY, cilt.2021, 2021 (SCI-Expanded)
- XVII. **Proton Therapy for Mandibula Plate Phantom**  
Senirkentli G. B., Ekinci F., BOSTANCI G. E., GÜZEL M. S., DAĞLI Ö., Karim A. M., Mishra A.  
HEALTHCARE, cilt.9, sa.2, 2021 (SCI-Expanded)
- XVIII. **Evolutionary neural networks for improving the prediction performance of recommender systems**  
Seref B., BOSTANCI G. E., GÜZEL M. S.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.29, sa.1, ss.62-77, 2021 (SCI-Expanded)
- XIX. **White Blood Cell Classification Using Genetic Algorithm\u2013Enhanced Deep Convolutional Neural Networks**  
ASKERBEYLİ İ., GÜZEL M. S., SEVİNÇ Ö., Mehrubeoglu M.  
Transactions on Computational Science and Computational Intelligence", "Advances in Artificial Intelligence and Applied Cognitive Computing, 2021 (SCI-Expanded)
- XX. **Manipulator Detection in Cryptocurrency Markets Based on Forecasting Anomalies**  
Akba F., Medeni İ. T., Güzel M. S., Askerbeyli İ.  
IEEE ACCESS, cilt.9, ss.108819-108831, 2021 (SCI-Expanded)

- XXI. **Adaptation of metaheuristic algorithms to improve training performance of an ESZSL model**  
ÖZSARI Ş., GÜZEL M. S., BOSTANCI G. E., AYDIN A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.29, sa.3, ss.1781-1796, 2021  
(SCI-Expanded)
- XXII. **A Novel Framework Using Deep Auto-Encoders Based Linear Model for Data Classification**  
Karim A. M., Kaya H., GÜZEL M. S., Tolun M. R., Celebi F. V., Mishra A.  
SENSORS, cilt.20, sa.21, 2020 (SCI-Expanded)
- XXIII. **A NOVEL DEEP LEARNING BASED ARCHITECTURE FOR FACIAL GESTURE ANALYSIS**  
Emek Soylu B., Güzel M. S., Askerbeyli İ.  
APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.19, sa.3, ss.300-316, 2020 (SCI-Expanded)
- XXIV. **A NOVEL DEEP LEARNING BASED ARCHITECTURE FOR FACIAL GESTURE ANALYSIS**  
Soylu B. E., GÜZEL M. S., Askerzade I. N.  
APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.19, sa.3, ss.300-316, 2020 (SCI-Expanded)
- XXV. **A Novel Action Recognition Framework Based on Deep-Learning and Genetic Algorithms**  
Yilmaz A. A., Güzel M. S., Bostancı G. E., Askerbeyli İ.  
IEEE ACCESS, cilt.8, ss.100631-100644, 2020 (SCI-Expanded)
- XXVI. **A Novel Framework for Multi-Agent Systems Using a Decentralized Strategy**  
GÜZEL M. S., Ajabshir V. B., Nattharith P., Gezer E. C., Can S.  
ROBOTICA, cilt.37, sa.4, ss.691-707, 2019 (SCI-Expanded)
- XXVII. **A new framework using deep auto-encoder and energy spectral density for medical waveform data classification and processing**  
Karim A. M., Guzel M. S., TOLUN M. R., Kaya H., Celebi F.  
BIOCYBERNETICS AND BIOMEDICAL ENGINEERING, cilt.39, sa.1, ss.148-159, 2019 (SCI-Expanded)
- XXVIII. **A New Generalized Deep Learning Framework Combining Sparse Autoencoder and Taguchi Method for Novel Data Classification and Processing**  
Karim A. M., Guzel M. S., TOLUN M. R., Kaya H., Celebi F. V.  
MATHEMATICAL PROBLEMS IN ENGINEERING, cilt.2018, 2018 (SCI-Expanded)
- XXIX. **An adaptive framework for mobile robot navigation**  
GÜZEL M. S., Kara M., Beyazkilic M. S.  
ADAPTIVE BEHAVIOR, cilt.25, sa.1, ss.30-39, 2017 (SCI-Expanded)
- XXX. **Machine vision and fuzzy logic-based navigation control of a goal-oriented mobile robot**  
Nattharith P., GÜZEL M. S.  
ADAPTIVE BEHAVIOR, cilt.24, sa.3, ss.168-180, 2016 (SCI-Expanded)
- XXXI. **Performance evaluation for feature extractors on street view images**  
GÜZEL M. S.  
IMAGING SCIENCE JOURNAL, cilt.64, sa.1, ss.26-33, 2016 (SCI-Expanded)
- XXXII. **Silhouette Extraction from Street View Images**  
Mutlu B., Haciomeroglu M., GÜZEL M. S., DİKMEN M., Sever H.  
INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, cilt.11, 2014 (SCI-Expanded)
- XXXIII. **A hybrid architecture for vision-based obstacle avoidance**  
GÜZEL M. S., Zakaria W.  
Advances in Mechanical Engineering, cilt.2013, 2013 (SCI-Expanded)
- XXXIV. **Autonomous vehicle navigation using vision and mapless strategies: A survey**  
GÜZEL M. S.  
Advances in Mechanical Engineering, cilt.2013, 2013 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **ONTOLOGY DEVELOPMENT FOR WEB SERVICES TO BE USED WITHIN THE SCOPE OF REMOTE MONITORING PROJECT**

- Gürcüoğlu K., MEDENİ T. D., MEDENİ İ. T., GÜZEL M. S., Arslan H.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.65, sa.1, ss.38-51, 2023 (Hakemli Dergi)
- II. **Airborne imagery and lidar based 3D reconstruction using commercial drones**  
Açıcı K., Erdal Ö. M., Yılmaz A., Ünal M., Bostancı G. E., Güzel M. S.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.65, sa.1, ss.16-29, 2023 (Hakemli Dergi)
- III. **ML BASED PREDICTION OF COVID-19 DIAGNOSIS USING STATISTICAL TESTS**  
Özsarı Ş., Ortak F. Z., Güzel M. S., Başkır M. B., Bostancı G. E.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.65, sa.2, ss.79-99, 2023 (Hakemli Dergi)
- IV. **USING OF DECISION TREE CLASSIFICATIONS METHOD FOR INTRUSION DETECTION IN INTERNET NETWORKS**  
Salati M., Askerbeyli İ., Bostancı G. E., Güzel M. S.  
Proceedings of the Institute of Applied Mathematics, cilt.11, sa.2, ss.71-89, 2022 (Hakemli Dergi)
- V. **Security Evaluation of Industry 4.0: Understanding Industry 4.0 on the Basis of Crime, Big Data, Internet of Thing (IoT) and Cyber Physical Systems**  
ATEŞ E. C., BOSTANCI G. E., GÜZEL M. S.  
Güvenlik Bilimleri Dergisi, ss.29-50, 2020 (Hakemli Dergi)
- VI. **MODERN LEARNING TECHNIQUES AND PLANT IMAGE CLASSIFICATION**  
ÜNAL M., BOSTANCI E., GÜZEL M. S., AYDIN A.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.62, sa.2, ss.153-163, 2020 (Hakemli Dergi)
- VII. **GENERATING TURKISH LYRICS WITH LONG SHORT TERM MEMORY**  
Erten H., GÜZEL M. S., BOSTANCI G. E.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, 2020 (Hakemli Dergi)
- VIII. **A COMPARISON OF DEEP LEARNING BASED ARCHITECTURE WITH A CONVENTIONAL APPROACH FOR FACE RECOGNITION PROBLEM**  
Ünal F. Z., GÜZEL M. S.  
Communications Faculty of Sciences University of Ankara Series A2-A3 Physical Sciences and Engineering, 2019 (Hakemli Dergi)
- IX. **A New View on The Processing of Seismic Data With Artificial Neural Networks**  
AĞAOĞLU B., Ünal F. Z., GÜZEL M. S., BOSTANCI G. E., ASKERBEYLİ İ.  
International Journal of Multidisciplinary Studies and Innovative Technologies, 2019 (Hakemli Dergi)
- X. **Forensic Analysis of Amazon Alexa and Google Assistant Built-In Smart Speakers**  
yıldırım i., BOSTANCI G. E., GÜZEL M. S.  
International Journal of Innovation Engineering and Science Research, cilt.3, sa.5, 2019 (Hakemli Dergi)
- XI. **Ancient Tablet Indexation Service**  
Ayas M., Sönmez M. F., BOSTANCI G. E., GÜZEL M. S.  
Eurasian Education Literature Journal, sa.UTKM3, 2019 (Hakemli Dergi)
- XII. **AN EDUCATIONAL SOFTWARE FOR LOW COST MANIPULATORS**  
GÜZEL M. S., himishioğlu y.  
International Journal of Research in Engineering and Technology, cilt.7, sa.3, ss.107-116, 2018 (Hakemli Dergi)
- XIII. **A vehicle detection approach using deep learning methodologies**  
Yılmaz A., Güzel M. S., Bostancı G. E., Askerbeyli İ.  
preprint, cilt.1, sa.1, 2018 (Hakemli Dergi)
- XIV. **Çok Yönlü Araç Takibi ve Sayımı Uygulaması**  
GÜZEL M. S.  
Karaelmas Fen ve Mühendislik Dergisi, cilt.7, sa.2, ss.622-626, 2017 (Hakemli Dergi)
- XV. **Discovering future of the social trends using social media tools**

- SEVİNÇ Ö., ASKERBEYLİ İ., GÜZEL M. S.  
 Global Journal of Computer Sciences: Theory and Research, cilt.7, sa.3, ss.153-159, 2017 (Hakemli Dergi)
- XVI. **Optimization of potential field parameters using genetic algorithm**  
 GÜZEL M. S., Ajabshir V. B., CAN S., BOSTANCI G. E.  
 Global Journal of Computer Sciences: Theory and Research, cilt.7, sa.2, ss.58-67, 2017 (Hakemli Dergi)
- XVII. **A Novel Framework for Text Recognition in Street View Images**  
 GÜZEL M. S.  
 International Journal of Intelligent Systems and Applications in Engineering, cilt.5, sa.3, ss.140-144, 2017 (Hakemli Dergi)
- XVIII. **Öğretim Kalitesi Değerlendirmesine Yeni Bir Yaklaşım: Bartın Üniversitesi Örneği**  
 BAŞKIR M. B., KÜÇÜKÖNDER H., ÇELİK N., GÜZEL M. S.  
 Bartın Üniversitesi Eğitim Fakültesi Dergisi, cilt.6, sa.2, ss.468-485, 2017 (Hakemli Dergi)
- XIX. **PREDICTING THE FUTURE TRENDS BY MINING THE SOCIAL WEB: A SURVEY**  
 SEVİNÇ Ö., GÜZEL M. S., ASKERBEYLİ İ.  
 International Journal of Research and Reviews in Applied Sciences, cilt.31, sa.2, ss.54-61, 2017 (Hakemli Dergi)
- XX. **A goal oriented navigation system using vision**  
 GÜZEL M. S., Nattharith P., Duran A. S.  
 Journal of Telecommunication, Electronic and Computer Engineering, cilt.9, sa.2-3, ss.73-76, 2017 (Scopus)
- XXI. **REAL TIME GEOLOCATION TRACKING AND GEOFENCING USING GPRS GPS TECHNOLOGIES WITH SIM908 SHIELD OVER ARDUINO**  
 Meral E., GÜZEL M. S.  
 Commun.Fac.Sci.Univ.Ank.Series A2-A3, cilt.58, sa.2, ss.14-27, 2016 (Hakemli Dergi)
- XXII. **A Hybrid Feature Extractor using Fast Hessian Detector and SIFT**  
 GÜZEL M. S.  
 TECHNOLOGIES, cilt.3, sa.2, ss.103-110, 2015 (ESCI)
- XXIII. **A robotic software for intelligent applications**  
 GÜZEL M. S., Hinlioğlu Y.  
 Artificial Life and Robotics, cilt.18, sa.1-2, ss.76-82, 2013 (Scopus)

## Kitap & Kitap Bölümleri

- I. **Analysis of Interpolation-Based Image In-Painting Approaches**  
 Zor M., Bostancı G. E., Güzel M. S., Karataş E.  
 Advanced Sensing in Image Processing and IoT, Rashmi Gupta, Arun Kumar Rana, Sachin Dhawan, Korhan Cengiz, Editör, CRC, New York , Florida, ss.153-170, 2022
- II. **Evolutionary Motion Model Transitions for Tracking Unmanned Air Vehicles**  
 ÜNAL M., BOSTANCI G. E., GÜZEL M. S., ÜNAL F. Z., KANWAL N.  
 New Trends in Computational Vision and Bio-inspired Computing, Smys S., Iliyasu A.M., Bestak R., Shi F. (eds), Editör, Springer, Cham, ss.1193-1200, 2020
- III. **A Collective Behaviour Framework for Multi-agent Systems**  
 GÜZEL M. S., Kayakökü H.  
 Mechatronics and Robotics Engineering for Advanced and Intelligent Manufacturing, Zhang,Dan WeiBin, Editör, Springer, ss.61-71, 2017
- IV. **Vision based obstacle avoidance techniques**  
 GÜZEL M. S., robert b.  
 Recent Advances in Mobile Robotics, , Editör, InTech, ss.83-108, 2011

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Development of a Simulator for UAV Swarm Operation Planning using Evolutionary Algorithms**  
Aydın M., Bostancı G. E., Güzel M. S., Açıçık K.  
Cognitive Models and Artificial Intelligence Conference, Ankara, Türkiye, 26 - 28 Ekim 2023, cilt.6, ss.13-17
- II. **A New Approach for Human Body Orientation Detection Using Camera Footage**  
Kartal A., Shahbazi N., SEZER E., GÜZEL M. S.  
8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Türkiye, 13 - 15 Eylül 2023, ss.46-50
- III. **Quality estimation of wine data using improved crow search algorithm based fuzzy neural network**  
Ali Z., ASKERBEYLİ İ., GÜZEL M. S.  
8th World Conference on Soft Computing , SConSC-2022, Baku, Azerbaycan, 3 - 05 Şubat 2022
- IV. **INTRUSION DETECTION OF INTERNET NETWORKS THROUGH DECISION TREE CLASSIFICATION**  
Salati M., Askerbeyli İ., Güzel M. S., Bostancı G. E.  
8th International Conference on Control and Optimization with industrial application, Baku, Azerbaycan, 24 - 26 Ağustos 2022, cilt.1, ss.384-386
- V. **Mobile Robot Navigation with Swarm Intelligence using a Decentralized Strategy**  
GÜZEL M. S., Bostancı E., Mishra A.  
IEEE/SICE International Symposium on System Integration (SII), ELECTR NETWORK, 9 - 12 Ocak 2022, ss.838-843
- VI. **A New Algorithm For The Initial Feasible Solutions Of Fixed Charge Transportation Problem**  
Kartlı N., BOSTANCI G. E., GÜZEL M. S.  
7th International Conference on Computer Science and Engineering, UBMK 2022, Diyarbakır, Türkiye, 14 - 16 Eylül 2022, ss.82-85
- VII. **A new tour planning approach using metaheuristic algorithms for Irans provinces**  
ASKERBEYLİ İ., GÜZEL M. S., Salati M.  
The 7th International Conference on Control and Optimization with Industrial Applications, Baku, Azerbaycan, 26 - 28 Ağustos 2020, ss.356-358
- VIII. **An Introduction to Zero-Shot Learning: An Essential Review**  
Soysal O. A., GÜZEL M. S.  
2nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Türkiye, 26 - 27 Haziran 2020, ss.510-513
- IX. **Assessment of Iterative Semi-Supervised Feature Selection Learning for Sentiment Analyses:Digital Currency Markets**  
Akba F., MEDENİ İ. T., GÜZEL M. S., ASKERBEYLİ İ.  
14th IEEE International Conference on Semantic Computing (ICSC), California, Amerika Birleşik Devletleri, 3 - 05 Şubat 2020, ss.459-463
- X. **Genetic Hyperparameter Optimization Library Development and Its Application on Plant Disease Detection Problem**  
Soylu K., GÜZEL M. S., Soylu B., BOSTANCI G. E.  
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 Ekim 2020
- XI. **A NEW TOUR PLANNING APPROACH USING METAHEURISTIC ALGORITHMS FOR IRANS PROVINCES**  
Salati M., Askerzade İ., GÜZEL M. S.  
7th International Conference on Control and Optimization with Industrial Applications (COIA), ELECTR NETWORK, 26 - 28 Ağustos 2020, ss.356-358
- XII. **Main Agricultural Crop Classification Using SVM in Harran Plane**  
Taş T., Şimşek F. E., BAYRAMİN İ., GÜZEL M. S., BOSTANCI G. E.  
ICTACSE 2019, 11 Ekim 2019
- XIII. **A New View on The Processing of Seismic Data With Artificial Neural Networks**  
Ağaoglu B., Ünal Z., GÜZEL M. S., BOSTANCI G. E., ASKERBEYLİ İ.  
International Conference HORA, 5 - 07 Temmuz 2019
- XIV. **Comparison of Kalman filters and LSTM networks for error reduction problem**  
ÖZDEMİR Z., GÜZEL M. S.  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara,

- Türkiye, 11 - 13 Ekim 2019
- XV. **Data Mining on Twitter: Sample Analysis of Tweets Related to Cyberbullying**  
ATEŞ E. C., BOSTANCI G. E., GÜZEL M. S.  
International Security Congress (Theory, Method, Practice), Ankara, Türkiye, 19 - 20 Eylül 2019, ss.195-197
- XVI. **Network Anomaly Detection System using Genetic Algorithm, Feature Selection and Classification**  
Uysal E. I., Demircioglu G., Kale G., BOSTANCI G. E., GÜZEL M. S., Mohammed S. N.  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Türkiye, 11 - 13 Ekim 2019
- XVII. **Understanding Industry 4.0 on the Basis of Security, IoT (Internet Of Thing) And Big Data: Evaluation Of Possible Crimes And Remedies**  
ATEŞ E. C., BOSTANCI G. E., GÜZEL M. S.  
International Security Congress (Theory, Method, Practice), Ankara, Türkiye, 19 - 20 Eylül 2019, ss.39-41
- XVIII. **Surveillance and Reconnaissance Using a Swarm of Unmanned Aerial Vehicles**  
aydin m., BOSTANCI G. E., GÜZEL M. S.  
International Security Congress, 19 - 20 Eylül 2019
- XIX. **A Fuzzy Rule Based Visual Criminal Tracking System for Drones**  
çetinkaya o. t., sandal s., BOSTANCI G. E., GÜZEL M. S., Kanwal N.  
4 th International Conference on Computer Science and Engineering, 11 - 13 Eylül 2019
- XX. **An IOT based Mobile Radar System**  
Aydoğan E., BOSTANCI G. E., GÜZEL M. S., AYDIN A.  
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES 2019), 26 - 28 Nisan 2019
- XXI. **3D Scene Reconstruction using a Swarm of Drones**  
aydin m., BOSTANCI G. E., GÜZEL M. S.  
International Conference on Advanced Technologies, Computer Engineering and Science, 26 - 28 Nisan 2019
- XXII. **Forensic Analysis with Anti-Forensic Case Studies on Amazon Alexa and Google Assistant Build-In Smart Home Speakers**  
Yıldırım I., BOSTANCI G. E., GÜZEL M. S.  
4th International Conference on Computer Science and Engineering (UBMK), Samsun, Türkiye, 11 - 15 Eylül 2019, ss.271-273
- XXIII. **Optimization of medium voltage load break switchgear using multiple objective evolutionary algorithms**  
Ates H., BOSTANCI G. E., GÜZEL M. S.  
3rd International Conference on Applied Automation and Industrial Diagnostics (ICAAID), Elazığ, Türkiye, 25 - 27 Eylül 2019
- XXIV. **Comparison of Region Filling Algorithms Using Texture Synthesis Methodologies**  
Yılmaz A. A., GÜZEL M. S., Askerzade İ., BOSTANCI G. E.  
6th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Türkiye, 16 - 17 Nisan 2019, ss.340-343
- XXV. **Desktop Artillery Simulation Using Augmented Reality**  
Yavuz M. U., Sayar R., Yılmaz B., BOSTANCI G. E., GÜZEL M. S., Yılmaz A. A.  
6th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Türkiye, 16 - 17 Nisan 2019, ss.79-85
- XXVI. **A Fuzzy Rule Based Visual Human Tracking System for Drones**  
Çetinkaya O. T., Sandal S., BOSTANCI G. E., GÜZEL M. S., OSMANOĞLU M., Kanwal N.  
4th International Conference on Computer Science and Engineering (UBMK), Samsun, Türkiye, 11 - 15 Eylül 2019, ss.274-279
- XXVII. **Anomaly Based DDOSS Attack Detection and Prevention with Machine Learning**  
dinçalp u., GÜZEL M. S., BOSTANCI G. E., SEVİNÇ Ö.  
ISMSIT 2018, 19 - 21 Ekim 2018
- XXVIII. **Evolutionary Fuzzy Adaptive Motion Models for User Tracking in Augmented Reality Applications**

- AR Y., ÜNAL M., Sert S. Y., BOSTANCI G. E., Kanwal N., GÜZEL M. S.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018,  
Kizilcahamam, Ankara, Türkiye, 19 - 21 Ekim 2018
- XXIX. **Evolutionary Fuzzy Adaptive Motion Models for User Tracking in Augmented Reality Applications**  
AR Y., ÜNAL M., YİĞİT S., BOSTANCI G. E., Kanwal N., GÜZEL M. S.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018,  
Kizilcahamam, Ankara, Türkiye, 19 - 21 Ekim 2018
- XXX. **Geo-location Based Augmented Reality Application for Cultural Heritage Using Drones**  
ÜNAL M., BOSTANCI G. E., SERTALP E., GÜZEL M. S., Kanwal N.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018,  
Kizilcahamam, Ankara, Türkiye, 19 - 21 Ekim 2018
- XXXI. **Social Media Analyze with SVM Classifier and PCA**  
SEVİNÇ Ö., GÜZEL M. S., ASKERBEYLİ İ., BOSTANCI G. E.  
TMMOB Elektrik Mühendisleri Odası, Türkiye, 30 Kasım - 01 Aralık 2018
- XXXII. **A Decentralized Strategy for Autonomous Swarm Robots**  
GÜZEL M. S.  
International Conference on Theoretical and Applied Computer Science and Engineering, 23 - 24 Kasım 2018
- XXXIII. **Comparison of the AlexNet based Face Recognition System with the State of the Art Methods**  
ASKERBEYLİ İ., GÜZEL M. S., BOSTANCI G. E., unal m., unal f. z., Nattharith P.  
II. International Conference on theoretical and Applied Computer Science and Engineering, Ankara, Türkiye, 23 - 24 Kasım 2018, ss.2023
- XXXIV. **A Vehicle Detection Approach Using Deep Learning Methodologies**  
ASKERBEYLİ İ., GÜZEL M. S., BOSTANCI G. E., Yilmaz A. A.  
II. International Conference on theoretical and applied computer science and engineering, Ankara, Türkiye, 23 - 24 Kasım 2018, ss.64-70
- XXXV. **Detection of Light Sleep Periods Using an AccelerometerBased Alarm System**  
Turkyilmaz E., Akgül A., BOSTANCI G. E., GÜZEL M. S.  
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), 11 - 13 Mayıs 2018
- XXXVI. **Live Target Detection with Deep Learning NeuralNetwork and Unmanned Aerial Vehicle on AndroidMobile Device**  
Anar A. C., BOSTANCI G. E., GÜZEL M. S.  
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), 11 - 13 Mayıs 2018
- XXXVII. **Field-angular dependence of the critical current density in LiFeAs in two-band Ginzburg-Landau theory**  
ASKERBEYLİ İ., GÜZEL M. S.  
6th International Conference on Superconductivity and Magnetism, Antalya, Türkiye, 29 Nisan - 04 Mayıs 2018
- XXXVIII. **Evolutionary Fuzzy Adaptive Motion Models for User Tracking in Augmented Reality Applications<bold> </bold>**  
Ar Y., Ünal M., Yiğit Sert S., Bostancı E., Kanwal N., Güzel M. S.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Türkiye, 19 - 21 Ekim 2018, ss.409-414
- XXXIX. **Cybercrimes Against Children in Turkey**  
Ates E. C., BOSTANCI G. E., GÜZEL M. S.  
6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Türkiye, 22 - 25 Mart 2018, ss.324-329
- XL. **Geo-location Based Augmented Reality Application For Cultural Heritage Using Drones<bold> </bold>**  
ÜNAL M., Bostancı E., SERTALP E., GÜZEL M. S., Kanwal N.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam,

Türkiye, 19 - 21 Ekim 2018, ss.399-402

- XLI. **Anomaly Based Distributed Denial of Service Attack Detection and Prevention with Machine Learning**  
Dincalp U., GÜZEL M. S., SEVİNÇ Ö., BOSTANCI G. E., Askerzade İ.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Türkiye, 19 - 21 Ekim 2018, ss.600-603
- XLII. **A NEW DEEP LEARNING BASED SYSTEM FOR FACIAL GESTURE ANALYSIS**  
Soylu B. E., GÜZEL M. S., Askerzade İ.  
6th International Conference on Control and Optimization with Industrial Applications (COIA), Baku, Azerbaijan, 11 - 13 Temmuz 2018, ss.361-363
- XLIII. **Custom RFID Location Simulator**  
Yilmaz H., Nacar O., Sezgin O., BOSTANCI G. E., GÜZEL M. S., Sevinc O.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Türkiye, 19 - 21 Ekim 2018, ss.527-533
- XLIV. **Comparison of Genetic Algorithm and PSO Method for Optimization of Potential Fields Parameters**  
AJABSHIR V. B., CAN S., GÜZEL M. S., BOSTANCI G. E., ASKERBEYLİ İ.  
International Conference on Theoretical and Applied Computer Science and Engineering (ICTACSE, 2017), Ankara, Türkiye, 10 Kasım - 11 Aralık 2017
- XLV. **Optimization of potential field parameters using genetic algorithm**  
Ajabshir V. B., GÜZEL M. S., Can S., BOSTANCI G. E.  
4th World Conference on Computer Engineering, 28 - 30 Ağustos 2017
- XLVI. **DISCOVERING FUTURE TRENDS OVER SOCIAL MEDIA USING SVM CLASSIFIER**  
SEVİNÇ Ö., ASKERBEYLİ İ., GÜZEL M. S.  
ICTACSE 2017, Ankara, Türkiye, 10 - 11 Kasım 2017
- XLVII. **A Fuzzy Brute Force Matching Method for Binary Image Features**  
BOSTANCI G. E., Kanwal N., Bostancı B., GÜZEL M. S.  
International Conference on Theoretical and Applied Computer Science and Engineering (ICTACSE), 10 - 11 Kasım 2017
- XLVIII. **Pedestrian detection studies using picture telescope approach**  
Yilmaz A. A., GÜZEL M. S., ASKERBEYLİ İ.  
International Conference on Theoretical and Applied Computer Sciences and Engineering, 10 - 11 Kasım 2017
- XLIX. **Comparision ogf Genetic Algorithm and PSO method for optimization of potentiai field parameters**  
Ajabshir V., Can S., GÜZEL M. S., BOSTANCI G. E., ASKERBEYLİ İ.  
International Conference on Theoretical and Applied Computer Science and Ingineering, 10 - 11 Kasım 2017
- L. **Finding Minimum Area Ellipse for Data Points using a Genetic Algorithm**  
BOSTANCI G. E., Kanwal N., Bostancı B., GÜZEL M. S.  
15th International Geometry Symposium, 3 - 06 Temmuz 2017
- LI. **Discovering the future of the social trends bu using social media tools**  
SEVİNÇ Ö., GÜZEL M. S., ASKERBEYLİ İ.  
Comeng 2017 İstanbul, İstanbul, Türkiye, 28 - 30 Ağustos 2017
- LII. **A Mobile Robot Navigation System Using a Map-Building Based Approach**  
GÜZEL M. S., Can S., Erdem H., Şentürk B., BOSTANCI G. E.  
International Conference on Science, Engineering and Technology, 22 - 23 Haziran 2017
- LIII. **Genetic Algorithm Based Floor Planning System**  
Özlem D., BOSTANCI G. E., GÜZEL M. S.  
International Conference on Advances and Innovations in Engineering, 10 - 12 Mayıs 2017, ss.924-928
- LIV. **An Adaptive Pattern Formation Approach for Swarm Robots**  
GÜZEL M. S., Gezer E. C., Ajabshir V. B., BOSTANCI G. E.  
4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Türkiye, 8 - 10 Nisan 2017, ss.194-198
- LV. **A Collective Behaviour Framework for Multi-agent Systems**

- GÜZEL M. S., Kayakoku H.  
2nd International Conference on Mechatronics and Robotics Engineering (ICMRE), Nice, Fransa, 18 - 22 Şubat  
2016, ss.61-71
- LVI. **A Robotic Simulator Tool for Mobile Robots**  
GÜZEL M. S., Kayakökü H., Babaei V.  
4th International Symposium on Innovative Technologies in Engineering and Science, Alanya/ Antalya, 3 - 05  
Kasım 2016
- LVII. **A Multi Agent Robot Coordination Framework for Goal based Navigation Problem**  
GÜZEL M. S., ibrahim baran ç.  
Second Intl. Conf. on Advances in Information Processing and Communication Technology - IPCT 2015, 18 - 19  
Nisan 2015, ss.89-93
- LVIII. **A New Technique for Distance Estimation using SIFT for mobile robots**  
GÜZEL M. S., Nattharith P.  
iEECON2014, 14 - 16 Mart 2014
- LIX. **An indoor mobile robot development: A low-cost platform for robotics research**  
Nattharith P., GÜZEL M. S.  
International Electrical Engineering Congress (iEECON), Tayland, 19 - 21 Mart 2014
- LX. **New Technique for Distance Estimation using SIFT for mobile robots**  
GÜZEL M. S., Nattharith P.  
International Electrical Engineering Congress (iEECON), Tayland, 19 - 21 Mart 2014
- LXI. **Software analysis of Lynx 6 robot arm**  
Koyuncu B., GÜZEL M. S.  
2008 International Conference on Automation, Robotics and Control Systems, ARCS 2008, Orlando, FL, Amerika  
Birleşik Devletleri, 7 - 10 Temmuz 2008, ss.1-8
- LXII. **A visual tool for kinematics analyses of Lynx-6 robot arms together with dynamic modeling of DC  
motors at robot joints**  
Koyuncu B., GÜZEL M. S.  
2008 International Conference on Automation, Robotics and Control Systems, ARCS 2008, Orlando, FL, Amerika  
Birleşik Devletleri, 7 - 10 Temmuz 2008, ss.145-150

## Desteklenen Projeler

GÜZEL M. S., TÜBİTAK Projesi, Sürü Zekası Algoritmaları İle Görüntü Tabanlı Robot Navigasyonu, 2015 - Devam Ediyor  
Ketenoğlu D., Bostancı G. E., Çağlar Eryurt B., Eskici B., Gök C., Açıci K., Güzel M. S., TÜBİTAK Projesi, Tarihi Pigmentlerin  
Yapay Zekâ ile Tespiti, 2023 - 2025

Ketenoğlu B., Bostancı G. E., Ketenoğlu D., Güzel M. S., Aydin A., TÜBİTAK Uluslararası İkili İşbirliği Projesi, X-Işını Demet  
Hattı için Genetik Algoritmala Dayalı Sinkrotron Işınımı Optimizasyonu, 2022 - 2024

GÜZEL M. S., Diğer Özel Kurumlarca Desteklenen Proje, Ros / Gazebo Benzetim Altyapısı Geliştirilemsi Ar-Ge Projesi,  
2018 - 2019

GÜZEL M. S., TÜBİTAK Projesi, Kentsel Kaşif (Tubitak 1501), 2015 - 2016

## Metrikler

Yayın: 131  
Atıf (WoS): 192  
Atıf (Scopus): 336  
H-İndeks (WoS): 7  
H-İndeks (Scopus): 9