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ScopusID: 36349844700

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Education Information

Doctorate, University of Newcastle Upon Tyne, Mekanik Ve Sistem Mühendisliği, United Kingdom 2008 - 2012

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2006 - 2008

Undergraduate, Baskent University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2001 - 2004

Dissertations

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

Postgraduate, ALTI EKSENLİ ROBOT KOLUN HAREKETSSEL KARAKTERİSTLİĞİNİN GÖRSEL PROGRAMLANMASI GERÇEK ZAMANLI UYGULAMALAR, Ankara University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2008

Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2014 - Continues

Research Assistant, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2006 - 2014

Academic and Administrative Experience

Ankara University, 2014 - Continues

Courses

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

ALGORITHMS 1, Undergraduate, 2017 - 2018, 2016 - 2017

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

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

SAYISAL GÖRÜNTÜ İŞLEME, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

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

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

RESEARCH TECHNIQUES 2, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
AUTOMATA THEORY, Undergraduate, 2015 - 2016
DIGITAL IMAGE PROCESSING, Undergraduate, 2014 - 2015
SAYISAL GÖRÜNTÜ İŞLEME, Undergraduate, 2014 - 2015
ROBOTİCS, Undergraduate, 2014 - 2015, 2013 - 2014
ROBOTİK, Undergraduate, 2013 - 2014

Advising Theses

GÜZEL M. S., İkili kamera ile video özeti yaklaşımı, Postgraduate, T.DİLBER(Student), 2021
GÜZEL M. S., Doğal dil işleme ile Türkçe içerikli paylaşımlardan sosyal medya kullanıcılarının duygu analizi, Postgraduate, Ç.BALLI(Student), 2021
GÜZEL M. S., Education based robotic application development framework, Postgraduate, M.KARAKAYA(Student), 2020
GÜZEL M. S., Visual based early fire detection system with unmanned aerial vehicles, Postgraduate, A.DEMİRTAŞ(Student), 2019
GÜZEL M. S., Makine öğrenmesi ile sürü robotları için savaş stratejisi modeli, Postgraduate, Ü.ULUSOY(Student), 2019
GÜZEL M. S., Pekiştirmeli öğrenme tabanlı robotlar ile yeni bir robocode savaş stratejisi, Postgraduate, H.KAYAKÖKÜ(Student), 2019
GÜZEL M. S., A new segmentation algorithm for medical images and analysis application, Postgraduate, S.CAN(Student), 2018
GÜZEL M. S., İnsanın yüz mimiklerinden durum analizi yapma, Postgraduate, B.EMEK(Student), 2017
GÜZEL M. S., Gerçek zamanlı konum belirleme uygulaması, Postgraduate, E.MERAL(Student), 2017
GÜZEL M. S., Derin öğrenme ile yüz tanıma, Postgraduate, F.ZEHRA(Student), 2017
GÜZEL M. S., Ekonomide öncü göstergeler ile büyüme tahmini uygulaması, Postgraduate, E.DÜLGER(Student), 2016
GÜZEL M. S., Oğul robotları yön bulma problemi, Postgraduate, M.KARA(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Early prediction of Sepsis: A comparative assessment on patients' covariates**
MUTLU BİLGE B., Yeşilyurt M. E., Shahbazi N., GÜZEL M. S., SEZER E.
Biomedical Signal Processing and Control, vol.95, 2024 (SCI-Expanded)
- II. **Exploring Blockchain for Nuclear Material Tracking: A Scoping Review and Innovative Model Proposal**
Ecemis I. N., Ekinci F., AÇICI K., GÜZEL M. S., MEDENİ İ. T., Asuroglu T.
ENERGIES, vol.17, no.12, 2024 (SCI-Expanded)
- III. **Region-Based Semi-Two-Stream Convolutional Neural Networks for Pressure Ulcer Recognition**
ZALLUHOĞLU C., Akdogan D., Karakaya D., GÜZEL M. S., Ulgu M. M., Ardali K., Boyali A. O., Sezer E. A.
JOURNAL OF IMAGING INFORMATICS IN MEDICINE, no.2, pp.801-813, 2024 (SCI-Expanded)
- IV. **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, vol.31, no.Pt 2, pp.420-429, 2024 (SCI-Expanded)
- V. **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, vol.13, no.15, 2023 (SCI-Expanded)
- VI. **Multilabel Genre Prediction Using Deep-Learning Frameworks**
Ünal F. Z., Güzel M. S., Bostancı G. E., Açııcı K., Aşuroğlu T.
APPLIED SCIENCES, vol.13, no.15, pp.1-21, 2023 (SCI-Expanded)

- VII. **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., Açıcı K.
ELECTRONICS (Basel), vol.12, no.12, pp.1-49, 2023 (SCI-Expanded)
- VIII. **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., Açıcı K.
TECHNOLOGY AND HEALTH CARE, vol.2023, no.2023, pp.1-13, 2023 (SCI-Expanded)
- IX. **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, vol.13, no.4, 2023 (SCI-Expanded)
- X. **A NEW ALGORITHM FOR OPTIMAL SOLUTION OF FIXED CHARGE TRANSPORTATION PROBLEM**
Kartlı N., Bostancı E., GÜZEL M. S.
KYBERNETIKA, vol.59, no.1, pp.45-63, 2023 (SCI-Expanded)
- XI. **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, vol.11, pp.27883-27892, 2023 (SCI-Expanded)
- XII. **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, vol.209, no.8, pp.1229-1239, 2023 (SCI-Expanded)
- XIII. **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, vol.102, 2022 (SCI-Expanded)
- XIV. **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, vol.2022, 2022 (SCI-Expanded)
- XV. **A Novel Hybrid Machine Learning Based System to Classify Shoulder Implant Manufacturers**
Sivari E., GÜZEL M. S., BOSTANCI G. E., Mishra A.
HEALTHCARE, vol.10, no.3, 2022 (SCI-Expanded)
- XVI. **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, vol.39, no.1, pp.125-131, 2022 (SCI-Expanded)
- XVII. **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, vol.30, no.5, pp.1788-1803, 2022 (SCI-Expanded)
- XVIII. **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, vol.10, pp.35287-35301, 2022 (SCI-Expanded)
- XIX. **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, vol.2021, 2021 (SCI-Expanded)
- XX. **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, vol.9, no.2, 2021 (SCI-Expanded)
- XXI. **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, vol.29, no.1, pp.62-77, 2021 (SCI-Expanded)
- XXII. **White Blood Cell Classification Using Genetic Algorithm\2013Enhanced 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)
- XXIII. **Manipulator Detection in Cryptocurrency Markets Based on Forecasting Anomalies**
Akba F., Medeni İ. T., Güzel M. S., Askerbeyli İ.
IEEE ACCESS, vol.9, pp.108819-108831, 2021 (SCI-Expanded)
- XXIV. **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, vol.29, no.3, pp.1781-1796, 2021 (SCI-Expanded)
- XXV. **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, vol.20, no.21, 2020 (SCI-Expanded)
- XXVI. **A NOVEL DEEP LEARNING BASED ARCHITECTURE FOR FACIAL GESTURE ANALYSIS**
Emek Soylu B., Güzel M. S., Askerbeyli İ.
APPLIED AND COMPUTATIONAL MATHEMATICS, vol.19, no.3, pp.300-316, 2020 (SCI-Expanded)
- XXVII. **A NOVEL DEEP LEARNING BASED ARCHITECTURE FOR FACIAL GESTURE ANALYSIS**
Soylu B. E., GÜZEL M. S., Askerzade I. N.
APPLIED AND COMPUTATIONAL MATHEMATICS, vol.19, no.3, pp.300-316, 2020 (SCI-Expanded)
- XXVIII. **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, vol.8, pp.100631-100644, 2020 (SCI-Expanded)
- XXIX. **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, vol.37, no.4, pp.691-707, 2019 (SCI-Expanded)
- XXX. **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, vol.39, no.1, pp.148-159, 2019 (SCI-Expanded)
- XXXI. **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, vol.2018, 2018 (SCI-Expanded)
- XXXII. **An adaptive framework for mobile robot navigation**
GÜZEL M. S., Kara M., Beyazkılıç M. S.
ADAPTIVE BEHAVIOR, vol.25, no.1, pp.30-39, 2017 (SCI-Expanded)
- XXXIII. **Machine vision and fuzzy logic-based navigation control of a goal-oriented mobile robot**
Nattharith P., GÜZEL M. S.
ADAPTIVE BEHAVIOR, vol.24, no.3, pp.168-180, 2016 (SCI-Expanded)
- XXXIV. **Performance evaluation for feature extractors on street view images**
GÜZEL M. S.
IMAGING SCIENCE JOURNAL, vol.64, no.1, pp.26-33, 2016 (SCI-Expanded)
- XXXV. **Silhouette Extraction from Street View Images**
Mutlu B., Hacıomeroglu M., GÜZEL M. S., DİKMEN M., Sever H.
INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, vol.11, 2014 (SCI-Expanded)
- XXXVI. **A hybrid architecture for vision-based obstacle avoidance**
GÜZEL M. S., Zakaria W.

Advances in Mechanical Engineering, vol.2013, 2013 (SCI-Expanded)

XXXVII. **Autonomous vehicle navigation using vision and mapless strategies: A survey**

GÜZEL M. S.

Advances in Mechanical Engineering, vol.2013, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **USB-IDS-1 dataset feature reduction with genetic algorithm**
M. V., ÖZSARI Ş., AYDIN A., Guzel M.
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.66, no.1, pp.26-44, 2024 (Peer-Reviewed Journal)
- II. **ONTOLOGY DEVELOPMENT FOR WEB SERVICES TO BE USED WITHIN THE SCOPE OF REMOTE MONITORING PROJECT**
Gürücüoğlu 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, vol.65, no.1, pp.38-51, 2023 (Peer-Reviewed Journal)
- III. **Airborne imagery and lidar based 3D reconstruction using commercial drones**
Açı 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, vol.65, no.1, pp.16-29, 2023 (Peer-Reviewed Journal)
- IV. **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, vol.65, no.2, pp.79-99, 2023 (Peer-Reviewed Journal)
- V. **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, vol.11, no.2, pp.71-89, 2022 (Peer-Reviewed Journal)
- VI. **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, pp.29-50, 2020 (Peer-Reviewed Journal)
- 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 (Peer-Reviewed Journal)
- VIII. **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, vol.62, no.2, pp.153-163, 2020 (Peer-Reviewed Journal)
- IX. **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 (Peer-Reviewed Journal)
- X. **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 (Peer-Reviewed Journal)
- XI. **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, vol.3, no.5, 2019 (Peer-Reviewed Journal)
- XII. **Ancient Tablet Indexation Service**
Ayas M., Sönmez M. F., BOSTANCI G. E., GÜZEL M. S.
Eurasian Education Literature Journal, no.UTKM3, 2019 (Peer-Reviewed Journal)
- XIII. **A vehicle detection approach using deep learning methodologies**
Yılmaz A., Güzel M. S., Bostancı G. E., Askerbeyli İ.
preprint, vol.1, no.1, 2018 (Peer-Reviewed Journal)
- XIV. **AN EDUCATIONAL SOFTWARE FOR LOW COST MANIPULATORS**
GÜZEL M. S., Hınıslioğlu Y.
International Journal of Research in Engineering and Technology, vol.7, no.3, pp.107-116, 2018 (Peer-Reviewed Journal)
- 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, vol.7, no.3, pp.153-159, 2017 (Peer-Reviewed Journal)
- XVI. **Çok Yönlü Araç Takibi ve Sayımı Uygulaması**
GÜZEL M. S.
Karaelmas Fen ve Mühendislik Dergisi, vol.7, no.2, pp.622-626, 2017 (Peer-Reviewed Journal)
- XVII. **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, vol.7, no.2, pp.58-67, 2017 (Peer-Reviewed Journal)
- XVIII. **A Novel Framework for Text Recognition in Street View Images**
GÜZEL M. S.
International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.3, pp.140-144, 2017 (Peer-Reviewed Journal)
- XIX. **Öğretim Kalitesi Değerlendirmesine Yeni Bir Yaklaşım: Bartın Üniversitesi Örneği**
BAŞKIR M. B., KÜÇÜKÖNDER H., ÇELİK N., GÜZEL M. S.
Bartın Üniversitesi Eğitim Fakültesi Dergisi, vol.6, no.2, pp.468-485, 2017 (Peer-Reviewed Journal)
- XX. **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, vol.31, no.2, pp.54-61, 2017 (Peer-Reviewed Journal)
- XXI. **A goal oriented navigation system using vision**
GÜZEL M. S., Nattharith P., Duran A. S.
Journal of Telecommunication, Electronic and Computer Engineering, vol.9, no.2-3, pp.73-76, 2017 (Scopus)
- XXII. **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, vol.58, no.2, pp.14-27, 2016 (Peer-Reviewed Journal)
- XXIII. **A Hybrid Feature Extractor using Fast Hessian Detector and SIFT**
GÜZEL M. S.
TECHNOLOGIES, vol.3, no.2, pp.103-110, 2015 (ESCI)
- XXIV. **A robotic software for intelligent applications**
GÜZEL M. S., Hınıslioğlu Y.
Artificial Life and Robotics, vol.18, no.1-2, pp.76-82, 2013 (Scopus)

Books & Book Chapters

I. **Analysis of Interpolation-Based Image In-Painting Approaches**

Zor M., Bostancı G. E., Güzel M. S., Karataş E.

in: Advanced Sensing in Image Processing and IoT, Rashmi Gupta, Arun Kumar Rana, Sachin Dhawan, Korhan

Cengiz, Editor, CRC, New York , Florida, pp.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.
in: New Trends in Computational Vision and Bio-inspired Computing, Smys S., Ilyasu A.M., Bestak R., Shi F. (eds), Editor, Springer, Cham, pp.1193-1200, 2020
- III. **A Collective Behaviour Framework for Multi-agent Systems**
GÜZEL M. S., Kayakökü H.
in: Mechatronics and Robotics Engineering for Advanced and Intelligent Manufacturing, Zhang, Dan Wei Bin, Editor, Springer, pp.61-71, 2017
- IV. **Vision based obstacle avoidance techniques**
GÜZEL M. S., robert b.
in: Recent Advances in Mobile Robotics, , Editor, InTech, pp.83-108, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Development of a Simulator for UAV Swarm Operation Planning using Evolutionary Algorithms**
Aydın M., Bostancı G. E., Güzel M. S., Açıcı K.
Cognitive Models and Artificial Intelligence Conference, Ankara, Turkey, 26 - 28 October 2023, vol.6, pp.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, Turkey, 13 - 15 September 2023, pp.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, Azerbaijan, 3 - 05 February 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, Azerbaijan, 24 - 26 August 2022, vol.1, pp.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 January 2022, pp.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, Turkey, 14 - 16 September 2022, pp.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, Azerbaijan, 26 - 28 August 2020, pp.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), Turkey, 26 - 27 June 2020, pp.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, United States Of America, 3 - 05 February 2020, pp.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 October 2020
- XI. **A NEW TOUR PLANNING APPROACH USING METAHEURISTIC ALGORITHMS FOR IRANS PROVINCES**
Salati M., Askerzade I., GÜZEL M. S.
7th International Conference on Control and Optimization with Industrial Applications (COIA), ELECTR NETWORK, 26 - 28 August 2020, pp.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 October 2019
- XIII. **A New View on The Processing of Seismic Data With Artificial Neural Networks**
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