



RECEP ÖZDAĞ

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International Researcher IDs

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Biography

RECEP OZDAG received the B.Sc. degree in the department of computer education from Gazi University, Ankara, Turkey, in 2000, and the M.A.Sc. degree in electrical and electronic engineering from Van Yuzuncu Yil University, Van, Turkey, in 2008, and the Ph.D. degree in computer engineering from Inonu University, Malatya, Turkey, in 2015. He is currently an Associate Professor with the Department of Computer Engineering, Van Yuzuncu Yil University, since December 2021. His research interest includes wireless sensor networks, metaheuristic algorithms in wireless communications, optimization of sensor, aerial and terrestrial networks, and aerial base stations deployment.

Learning Knowledge

Doctorate 2011 - 2015	Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey
Postgraduate 2004 - 2007	Van Yüzüncü Yil University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey
Undergraduate 1996 - 2000	Gazi University, Endüstriyel Sanatlar Eğitim Fakültesi, Bilgisayar Eğitimi, Turkey

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, ELEKTROMAGNETİZMA-BENZER ALGORİTMASI KULLANILARAK KABLOSUZ ALGILAYICI AĞLARIN OPTİMİZASYONUNUN GERÇEKLEŞTİRİLMESİ, Inonu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2015
Postgraduate, AKILLI EV OTOMASYON SİSTEMİ VE İNTERNET ÜZERİNDEN UYGULAMASI, Van Yüzüncü Yil University,

Academic Titles / Tasks

Associate Professor 2021 - Continues	Van Yüzüncü Yıl University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü
Assistant Professor 2018 - 2021	Van Yüzüncü Yıl University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü
Assistant Professor 2016 - 2018	Van Yüzüncü Yıl University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü
Lecturer 2004 - 2016	Van Yüzüncü Yıl University, Van Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü
Lecturer 2001 - 2004	Bitlis Eren University, Ahlat Vocational School, Bilgisayar Programcılığı

Supported Projects

- Özdağ R., ARVAS M. M., Project Supported by Higher Education Institutions, Derin Öğrenme Algoritmaları Kullanılarak Döner Kanatlı İnsansız Hava Aracı Görüntülerinden Haşhaş, Kenevir ve Tütün Bitkilerinin Tepkisi, 2021 - 2022
- Canayaz M., Özdağ R., Uludağ F., Project Supported by Higher Education Institutions, Yapay Zeka ve Derin Öğrenme Uygulamaları Geliştirme, 2018 - 2021
- Özdağ R., Project Supported by Higher Education Institutions, Kablosuz Algılayıcı Ağlarda Etkin Dinamik Dağıtım için Algılayıcı Yerleşiminin Optimizasyonu, 2018 - 2021
- Özdağ R., Canayaz M., Project Supported by Higher Education Institutions, Kablosuz Algılayıcı Ağların Kapsanma ve Yaşam Sürelerinin Optimizasyonu için Meta-sezgisel algoritmalar esas alınarak Yeni Protokol ve Yaklaşımların Geliştirilmesi, 2017 - 2021
- Çelik H. E., Uludağ F., Çavuş H., Şensoy S., Tanhan F., Hamzadayı A., Van M. H., Canayaz M., Özdağ R., ÇELİK İ., et al., Project Supported by Higher Education Institutions, Uluslararası Veri Bilimi Makine Öğrenme ve İstatistik Konferansı DMS2019, 2019 - 2019
- Ekin İ. H., Battal P., Demirel M., Çelik H. E., Özdağ R., Canayaz M., Project Supported by Higher Education Institutions, Üniversitelerin Üniversite-İşbirliğinden Beklentileri Sempozyumu, 2017 - 2017
- Çelik H. E., Ekin İ. H., Özdağ R., Canayaz M., Çavuş H., Özdemir S., Genç N., Project Supported by Higher Education Institutions, Yüzüncü Yıl Üniversitesi Akademik Varlıklarının E-Ortamda Korunması, 2017 - 2017
- Özdağ R., Project Supported by Higher Education Institutions, Optimization of Target Q-Coverage Problem for QoS Requirement in Wireless Sensor Networks, 2016 - 2016
- Çelik H. E., Özdağ R., Parin S., Project Supported by Higher Education Institutions, Yüzüncü Yıl Üniversitesi Öğrencilerinin Teknoloji Kabulü ve Bunu Etkileyen Faktörlerin İncelenmesi, 2012 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- A novel hybrid path planning method for sweep coverage of multiple UAVs**

- Özdağ R.
JOURNAL OF SUPERCOMPUTING, vol.81, no.1, pp.1-40, 2025 (SCI-Expanded)
2. **Coverage analysis and a new metaheuristic approach using the Elfes Probabilistic detection model in Wireless sensor networks**
Ali N. H., Özdağ R.
MEASUREMENT, vol.200, 2022 (SCI-Expanded)
 3. **Multi-metric optimization with a new metaheuristic approach developed for 3D deployment of multiple drone-BSSs**
Özdağ R.
PEER-TO-PEER NETWORKING AND APPLICATIONS, no.15, pp.1535-1561, 2022 (SCI-Expanded)
 4. **COVID-19 diagnosis on CT images with Bayes optimization-based deep neural networks and machine learning algorithms**
Canayaz M., Şehribanoğlu S., Özdağ R., Demir M.
NEURAL COMPUTING & APPLICATIONS, vol.34, no.7, pp.5349-5365, 2022 (SCI-Expanded)
 5. **3D location optimization of multiple Unmanned Aerial Vehicle Base Stations in nextgeneration cellular networks and a new meta-heuristic approach**
Özdağ R.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.36, no.3, pp.1467-1482, 2021 (SCI-Expanded)
 6. **A new metaheuristic approach based on orbit in the multi-objective optimization of wireless sensor networks**
Özdağ R., Canayaz M.
WIRELESS NETWORKS, vol.27, no.1, pp.285-305, 2021 (SCI-Expanded)
 7. **The optimization of network lifetime with sensor deployment for target coverage problem in wireless sensor networks**
Özdağ R.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.4, pp.1155-1167, 2017 (SCI-Expanded)
 8. **Probabilistic dynamic distribution of wireless sensor networks with improved distribution method based on electromagnetism-like algorithm**
Özdağ R., KARCI A.
MEASUREMENT, vol.79, pp.66-76, 2016 (SCI-Expanded)
 9. **Sensor Node Deployment Based on Electromagnetism-Like Algorithm in Mobile Wireless Sensor Networks**
Özdağ R., KARCI A.
INTERNATIONAL JOURNAL OF DISTRIBUTED SENSOR NETWORKS, 2015 (SCI-Expanded)

Articles Published in Other Journals

1. **Complexity Matrices in Twitter Sentiment Analysis of Thoughts on Mobile Games Using Machine Learning Algorithms**
Kına E., Özdağ R.
Muş Alparslan Üniversitesi Mühendislik-mimarlık Fakültesi Dergisi, vol.2, no.2, pp.91-100, 2021 (Peer-Reviewed Journal)
2. **Optimization of Target Q-Coverage Problem for QoS Requirement in Wireless Sensor Networks**
Özdağ R.
JOURNAL OF COMPUTERS, vol.13, pp.480-489, 2018 (Peer-Reviewed Journal)
3. **A New Dynamic Deployment Approach Based on Whale Optimization Algorithm in the Optimization of Coverage Rates of Wireless Sensor Networks**
ÖZDAĞ R., CANAYAZ M.

- European Journal of Technic, vol.7, no.2, pp.119-130, 2017 (Peer-Reviewed Journal)
4. **BALİNA OPTİMİZASYON ALGORİTMASI TEMELLİ VERİ KÜMELEME**
CANAYAZ M., Özdağ R.
Middle East Journal of Technic, no.2, pp.178-187, 2017 (Peer-Reviewed Journal)
 5. **Kablosuz Algılayıcı Ağlarda Olasılıksal Kapsama Oranının Optimizasyonu için Yeni Bir Meta-Sezgisel Yaklaşım**
Özdağ R.
BİLİŞİM TEKNOLOJİLERİ DERGİSİ, vol.10, no.4, pp.461-473, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **Internet of Things and Arduino-Based Carbon Monoxide Detection System**
Bulak E., Özdağ R.
2024 8th International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 21 - 22 September 2024, pp.1-6
2. **A New Path Planning Approach for Sweep Coverage of Time-Sensitive Targets with Multiple Simultaneously Flying UAVs**
Özdağ R.
Karaelmas International Science and Engineering Symposium (KISES 2024), Zonguldak, Turkey, 10 - 11 May 2024, pp.55-56
3. **Hybrid-Based Path Planning for Multiple UAV Sweep Coverage**
Özdağ R.
International Informatics Congress 2023, Batman, Turkey, 20 - 21 March 2023, pp.63-79
4. **COVID-19 FORECASTING AND FEATURE DETECTION USING RECURRENT NEURAL NETWORKS**
Urut S., Özdağ R.
Uluslararası Bilişim Kongresi, Batman, Turkey, 17 - 19 February 2022, pp.523-530
5. **Crop Detection by Deep Learning Models From Agricultural Area Images Obtained with Drone**
Arvas M. M., Özdağ R.
1 st International Conference on International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI), Yalova, Turkey, 21 - 23 May 2021, pp.13
6. **Sentiment Analysis With Using Machine Learning Algorithms, Depends on Mobile Game Tweets**
Kına E., Özdağ R.
IV. INTERNATIONAL CONGRESS ON NEW TRENDS IN SCIENCE, ENGINEERING AND TECHNOLOGY, Sankt-Peterburg, Russia, 7 - 09 July 2020, pp.1
7. **A New Meta-heuristic Approach for 3D Placement of Multiple Unmanned Aerial Vehicle Base Stations In Wireless Networks**
Özdağ R., Yanıkömeroglu H.
International Conference on Data Science, Machine Learning and Statistics - 2019, Van, Turkey, 26 June - 29 July 2019, pp.64-66
8. **Kablosuz algılayıcı ağlarda elfes olasılıksal dağıtım modeli kullanılarak ağın kapsama oranının optimizasyonu için yeni bir meta-sezgisel yaklaşım**
Özdağ R., Ali N. H.
International Eurasian Conference on Science Engineering and Technology, Ankara, Turkey, 22 - 23 November 2018, pp.172
9. **Training ANFIS using The Whale Optimization Algorithm**
Canayaz M., Özdağ R.
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES 2018), Karabük, Turkey, 11 - 13 May 2018, pp.409-414
10. **Optimization of Sensor Deployment for k-coverage in Wireless Sensor Networks**
Özdağ R., Canayaz M.

International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), Karabük, Turkey, 11 - 13 May 2018, pp.755-760

11. **Training Artificial Neural Network with Chaotic Cricket Algorithm**

Canayaz M., Özdağ R.

26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018

12. **Optimization of Target Q Coverage Problem for QoS Requirement in Wireless Sensor Networks**

ÖZDAĞ R.

The 9th International Conference on Computer and Electrical Engineering (ICCEE 2016), Barcelona, Spain, 7 - 11 December 2016

13. **Kablosuz Algılayıcı Ağlarda Alan Kapsama için Dinamik Düğüm Dağıtımı ile Yeni bir Meta-sezgisel Yaklaşım**

Özdağ R.

4TH INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Antalya, Turkey, 3 - 05 November 2016, pp.1513-1522

14. **The Solution of the k-coverage Problem in Wireless Sensor Networks**

Özdağ R.

24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.873-876

15. **A Novel Routing Protocol based on EM-L Algorithm for Energy Efficiency of Wireless Sensor Networks**

Özdağ R., KARCI A.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.871-874

16. **Elektromagnetizma-Like Algoritması ile Kablosuz Algılayıcı Ağların Olasılıksal Dinamik Dağıtımları**

Özdağ R., KARCI A.

2ND INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Karabük, Turkey, 18 - 20 June 2014, pp.368-377

17. **The Application of Electromagnetism-like Algorithm for the Dynamic Deployment Problem in Wireless Sensor Networks**

Özdağ R., KARCI A.

2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.199-200

Academic and Administrative Experience

2017 - Continues	Rectorate Commissioner	Van Yüzüncü Yil University, Araştırma Ve Geliştirme Kalite Alt Komisyonu
2017 - Continues	Head of Department	Van Yüzüncü Yil University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü
2016 - Continues	Assist. Prof.Dr.	Van Yüzüncü Yil University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü
2019 - 2020	Manager of Research and Application Center	Van Yüzüncü Yil University

Courses

Bilgisayar Programlama, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
Internet of Things, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Veri Madenciliği ve Bilgi Keşfi, Postgraduate, 2017 - 2018
Kablosuz Algılayıcı Ağlar, Postgraduate, 2017 - 2018
Bilgisayara Giriş I, Undergraduate, 2015 - 2016
Bilgisayara Giriş I, Undergraduate, 2015 - 2016
Kablosuz Algılayıcı Ağlar, Postgraduate, 2016 - 2017
BİLGİSAYAR I, Undergraduate, 2014 - 2015
BİLGİSAYAR II, Undergraduate, 2015 - 2016
BİLGİSAYAR II, Undergraduate, 2014 - 2015

Advising Theses

Özdağ R., Diagnosis and Prediction of COVID-19 from Radiological Images using a Hybrid Approach based on Deep Learning Architecture, Postgraduate, S.URUT(Student), 2022
Özdağ R., Detection of Poppy, Marijuana and Tobacco Plants from Rotary Wing Unmanned Aerial Vehicle Images Using Deep Learning Algorithms, Postgraduate, M.Mücahit(Student), 2022
Özdağ R., EMOTION ANALYSIS IN TWITTER MOBILE GAME DATA USING MACHINE LEARNING ALGORITHMS, Doctorate, E.Kına(Student), 2022
Özdağ R., The Internet of Things Technology Impact on Social Media Usage by University of DUHOK Students on Collaborative Learning in North of IRAQ, Postgraduate, B.Ali(Student), 2020
Özdağ R., Optimization of Coverage Ratio by Electromagnetism-Like Algorithm and Elfas Probabilistic Detection Model in Wireless Sensor Networks, Postgraduate, N.Hasan(Student), 2019

Activities in Scientific Journals

Muş Alparslan Üniversitesi Mühendislik - Mimarlık Fakültesi Dergisi, Editor, 2022 - Continues

Scientific Refereeing

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, SCI Journal, October 2024
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, October 2024
Türk Doğa ve Fen Dergisi, National Scientific Refreed Journal, October 2024
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, Journal Indexed in SCI-E, May 2022
IEEE COMMUNICATIONS LETTERS, SCI Journal, March 2021
KSII Transactions on Internet and Information Systems, SCI Journal, December 2017
Türk Doğa ve Fen Dergisi, National Scientific Refreed Journal, October 2017
Ad Hoc Networks, SCI Journal, June 2017
International Journal of Distributed Sensor Networks, SCI Journal, March 2017
International Journal of Wireless Information Networks, Other Indexed Journal, March 2017
Hacettepe Journal of Mathematics and Statistics, SCI Journal, April 2016
International Journal of Distributed Sensor Networks, SCI Journal, December 2014

Metrics

Publication: 31
Citation (WoS): 37
Citation (Scopus): 57

H-Index (WoS): 3

H-Index (Scopus): 4

Congress and Symposium Activities

INTERNATIONAL ENGINEERING CONFERENCE (IEC2017), Session Moderator, Antalya, Turkey, 2017

4TH INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Session Moderator, Antalya, Turkey, 2016

Research Areas

Computer Sciences, algorithms, Simulation and Modelling, Computer Networks, Engineering and Technology

Non Academic Experience

MİLLİ EĞİTİM BAKANLIĞI