



# RECEP ÖZDAĞ

## ASSOC. PROF.

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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, Fen Bilimleri Enstitüsü, Elektrik - Elektronik Mühendisliği, 2007

## Academic Titles / Tasks

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

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## Supported Projects

1. Canayaz M., Özdağ R., Uludağ F., Project Supported by Higher Education Institutions, Yapay Zeka ve Derin Öğrenme Uygulamaları Geliştirme, 2018 - 2021
2. Özdağ R., Project Supported by Higher Education Institutions, Kablosuz Algılayıcı Ağlarda Etkin Dinamik Dağıtım için Algılayıcı Yerleşiminin Optimizasyonu, 2018 - 2021
3. 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
4. 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
5. 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
6. 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
7. Özdağ R., Project Supported by Higher Education Institutions, Optimization of Target Q-Coverage Problem for QoS Requirement in Wireless Sensor Networks, 2016 - 2016
8. 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

1. **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 (Peer-Reviewed Journal)
2. **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 (Peer-Reviewed Journal)
3. **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, pp.5349-5365, 2022 (Peer-Reviewed Journal)
  4. **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 (Peer-Reviewed Journal)
  5. **A new metaheuristic approach based on orbit in the multi-objective optimization of wireless sensor networks**  
Özdağ R., Canayaz M.  
WIRELESS NETWORKS, 2020 (Peer-Reviewed Journal)
  6. **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 (Peer-Reviewed Journal)
  7. **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 (Peer-Reviewed Journal)
  8. **Sensor Node Deployment Based on Electromagnetism-Like Algorithm in Mobile Wireless Sensor Networks**  
Özdağ R., KARCI A.  
INTERNATIONAL JOURNAL OF DISTRIBUTED SENSOR NETWORKS, 2015 (Peer-Reviewed Journal)

#### 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 Technique (EJT), no.7, pp.119-130, 2017 (Peer-Reviewed Journal)
4. **BALINA 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. **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
2. **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
3. **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
4. **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
5. **Kablosuz algılayıcı ağlarda elfes olasılıksal dağıtım modeli kullanılarak ağın kapsanma 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
6. **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
7. **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
8. **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
9. **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
10. **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
11. **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
12. **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

13. **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
14. **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	<b>Rectorate Commissioner</b>	Van Yüzüncü Yil University, Araştırma Ve Geliştirme Kalite Alt Komisyonu
2017 - Continues	<b>Head of Department</b>	Van Yüzüncü Yil University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü
2016 - Continues	<b>Assist. Prof.Dr.</b>	Van Yüzüncü Yil University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü
2019 - 2020	<b>Manager of Research and Application Center</b>	Van Yüzüncü Yil University

## Courses

Bilgisayar Programlama, Undergraduate, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022  
Internet of Things, Postgraduate, 2019 - 2020, 2020 - 2021, 2021 - 2022  
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., 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 Elfes 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

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: 27

Citation (WoS): 34

Citation (Scopus): 43

H-Index (WoS): 3

H-Index (Scopus): 3

## 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