



# MURTAZA CİCİOĞLU

## ASSOC. PROF.

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Üniversitesi, Nilüfer, Bursa, Türkiye

### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAL-5004-2020

ScopusID: 57203170833

Yoksis Researcher ID: 5E051D9B43BD3BB5



### Biography

Murtaza Cicioğlu received his Ph.D. degree in Electrical-Electronic and Computer Engineering from Düzce University, Turkey in 2020. He has been a member of the Computer Engineering Department of Bursa Uludağ University. His research interests include machine learning, AI, fuzzy logic, SDN, wireless communications, body area networks, cognitive radio, 5G, and Riverbed Modeler (OPNET) simulation software.

### Learning Knowledge

Doctorate 2016 - 2020	Duzce University, Institute Of Science, Electrical And Electronic And Computer Engineering Department, Turkey
Undergraduate 2017 - 2019	Duzce University, Faculty Of Engineering, Department Of Computer Engineering, Turkey
Postgraduate 2012 - 2014	Bolu Abant İzzet Baysal University, Graduate School Of Educational Sciences, Turkey
Undergraduate 2005 - 2009	Kocaeli University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi, Turkey

### Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Personal Evolution, EĞİTİMDE İNOVASYON VE ETKİLEŞİM, BURSA ULUDAĞ ÜNİVERSİTESİ, 2021

IT, CCNA R&S: Connecting Networks, CISCO, 2018

IT, CCNA R&S: Scaling Networks , CISCO, 2018

IT, CCNA R&S: Routing and Switching Essentials, CISCO, 2017

IT, CCNA R&S: Introduction to Networks, CISCO, 2017

## Dissertations

Doctorate, Kablosuz vücut alan ağları için yazılım tanımlı ağ destekli yeni bir protokol mimarisi, Duzce University, Institute Of Science, Electrical And Electronic And Computer Engineering Department, 2020

Postgraduate, Öğrencilerin problemleri internet kullanımı ve siber zorbalık davranışlarına ilişkin görüşleri, Bolu Abant İzzet Baysal University, Graduate School Of Educational Sciences, 2014

## Academic Titles / Tasks

Associate Professor  
2022 - Continues

Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ

Assistant Professor  
2021 - Continues

Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ

## Supported Projects

1. Cicioğlu M., Çoban G., Project Supported by Higher Education Institutions, Gelecek Nesil Haberleşme Sistemleri için Yapay Zeka Tabanlı QoS ve QoE Sınıflandırma Mimarisinin Geliştirilmesi, 2023 - 2025
2. Cicioğlu M., Çalışkan M., TUBITAK Project, Makine Öğrenmesi ve Nesnelerin İnterneti ile Makine Bakımlarının Kestirimci Bakımı ve Anomali Tespiti, 2023 - 2024
3. Cicioğlu M., Müftüoğlu T., TUBITAK Project, İki Eksen Step Motorlu Kartezyen Sistem ve Kamera Kullanarak Geometrik Ölçüm İstasyonu Yapımı, 2023 - 2024
4. Civil E., Cicioğlu M., Hasan A. H., İbra E., TUBITAK Project, Ulaşımında yaşanan problemlere karşı insansız hava araçları ile nesne, park alanı, yaya tespiti ve takibi, 2023 - 2024
5. İsen R., Cicioğlu M., Akıмова A., Polat D., TUBITAK Project, İş Sağlığı ve Güvenliğinde IoT Tabanlı Dijital Dönüşüm Yaklaşımı, 2023 - 2024
6. Duman H., Cicioğlu M., Durmuş M., TUBITAK Project, Oto Parçalarının Güvenliğinde IoT Kullanımı, 2023 - 2024
7. Gökdoğan C. İ., Cicioğlu M., Mengi A., Karaçam S. E., Çırak M., TUBITAK Project, Kurumlarda Güvenlik ve Zaman Kazancı için Gerçek Zamanlı Yüz Tanıma, 2023 - 2024
8. Cicioğlu M., Ünal A., TUBITAK Project, UZAKTAN YÖNETİLEBİLİR ARDIŞIK ÇAY DEMLEYEBİLEN PROGRAMLANABİLİR BİR ÇAY MAKİNASININ GELİŞTİRİLMESİ, 2022 - 2024
9. Cicioğlu M., Çalhan A., Gündoğdu K., TUBITAK Project, Akıllı Tarım Uygulamaları (Bilim ve Toplum 4005), 2022 - 2022
10. Çalhan A., Cicioğlu M., Bayrakdar M. E., Cicioğlu S., Biçen M., Project Supported by Higher Education Institutions, BİLİŞSEL RADYO TABANLI VÜCUT ALAN AĞLARI İÇİN VÜCUT SÖNÜMLEME ETKİSİ İLE KANAL MODELLENMESİ, 2016 - 2017
11. Çalhan A., Bayrakdar M. E., Cicioğlu M., Cicioğlu S., Project Supported by Higher Education Institutions, VÜCUT ALAN AĞI KONTROLLÜ TEKERLEKLİ SANDALYE İÇİN ENERJİ HASADI UYGULAMASI, 2016 - 2017

## Awards

1. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, May 2021
2. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ-2, Tübitak, May 2021
3. Cicioğlu M., 2020 YILI FEN BİLİMLERİ DOKTORA TEZ ÖDÜLÜ, Düzce Üniversitesi, April 2021
4. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, April 2021
5. Cicioğlu M., REVIEWER CERTIFICATE, Transactions On Emerging Telecommunications Technologies, February 2021
6. Cicioğlu M., REVIEWER CERTIFICATE, International Journal Of Communication Systems (Wiley), February 2021
7. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, December 2020
8. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, October 2020
9. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ , Tübitak, October 2019
10. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, September 2019
11. Cicioğlu M., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, July 2019
12. Cicioğlu M., IEEE ComSoc En İyi Öğrenci Bildirisi Ödülü (ilk 10), Institute Of Electrical And Electronics Engineers, May 2018

## Jury Memberships

- Competition, TEKNOFEST, Bursa Uludağ Üniversitesi, August, 2022
- Post Graduate, Post Graduate, Bursa Uludağ Üniversitesi, May, 2022
- Doctoral Examination, Doctoral Examination, Düzce Üniversitesi, May, 2022
- Post Graduate, Post Graduate, Düzce Üniversitesi, May, 2022
- Competition, TEKNOFEST 2022 , Bursa Uludağ Üniversitesi, April, 2022
- Post Graduate, Post Graduate, Bursa Uludağ Üniversitesi, February, 2022
- Post Graduate, Post Graduate, Bilecik Şeyh Edebali Üniversitesi, February, 2022
- Doctoral Examination, Doctoral Examination, Düzce Üniversitesi, January, 2022
- Doctorate, Doctorate, Bilecik Şeyh Edebali Üniversitesi, December, 2021
- Competition, TEKNOFEST 2021, Bursa Uludağ Üniversitesi, September, 2021

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

1. **Deep learning-based modulation recognition with constellation diagram: A case study**  
Lelebici M., Çalhan A., CİCİOĞLU M.  
Physical Communication, vol.63, 2024 (SCI-Expanded)
2. **CNN-based automatic modulation recognition for index modulation systems**  
Lelebici M., Çalhan A., Cicioğlu M.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.1, no.1, pp.1-20, 2024 (SCI-Expanded)
3. **Effects of diagram plane on neural network based modulation recognition**  
Lelebici M., Çalhan A., CİCİOĞLU M.  
Applied Soft Computing, vol.154, 2024 (SCI-Expanded)
4. **Hybrid Cell Handover Strategy for O-RAN-based Campus Networks**  
Bilir E., Cicioğlu M., Çalhan A.  
COMPUTER NETWORKS, vol.1, no.1, pp.1-20, 2024 (SCI-Expanded)
5. **A new platform for machine-learning-based network traffic classification**  
Bozkir R., CİCİOĞLU M., Calhan A., Togay C.  
COMPUTER COMMUNICATIONS, vol.208, pp.1-14, 2023 (SCI-Expanded)
6. **Fog-cloud architecture-driven Internet of Medical Things framework for healthcare monitoring**  
Yildirim E., CİCİOĞLU M., Calhan A.

- MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.61, no.5, pp.1133-1147, 2023 (SCI-Expanded)
7. **MLaR: machine-learning-assisted centralized link-state routing in software-defined-based wireless networks**  
CİCİOĞLU M., Calhan A.  
NEURAL COMPUTING & APPLICATIONS, vol.35, no.7, pp.5409-5420, 2023 (SCI-Expanded)
  8. **An effective routing algorithm for spectrum allocations in cognitive radio based internet of things**  
CİCİOĞLU M., Calhan A., Miah M. S.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.28, 2022 (SCI-Expanded)
  9. **A Multi-Protocol Controller Deployment in SDN-based IoMT Architecture**  
CİCİOĞLU M., Calhan A.  
IEEE Internet of Things Journal, vol.9, no.21, pp.20833-20840, 2022 (SCI-Expanded)
  10. **Performance Analysis of Cross-Layer Design for Internet of Underwater Things**  
CİCİOĞLU M., Calhan A.  
IEEE SENSORS JOURNAL, vol.22, no.15, pp.15429-15434, 2022 (SCI-Expanded)
  11. **Real-Time Internet of Medical Things Framework for Early Detection of COVID-19**  
Yıldırım E., Cicioğlu M., Çalhan A.  
NEURAL COMPUTING AND APPLICATIONS, vol.1, no.1, pp.1-26, 2022 (SCI-Expanded)
  12. **Performance analysis of disease diagnostic system using IoMT and real-time data analytics**  
Yildirim E., Calhan A., CİCİOĞLU M.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.13, 2022 (SCI-Expanded)
  13. **Handover management in software-defined 5G small cell networks via long short-term memory**  
CİCİOĞLU M., Calhan A.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.10, 2022 (SCI-Expanded)
  14. **Drone-assisted smart data gathering for pandemic situations**  
Çalhan A., CİCİOĞLU M.  
Computers and Electrical Engineering, vol.98, 2022 (SCI-Expanded)
  15. **Energy Efficiency Solutions for IEEE 802.15.6 Based Wireless Body Sensor Networks**  
CİCİOĞLU M., ÇALHAN A.  
WIRELESS PERSONAL COMMUNICATIONS, vol.119, no.2, pp.1499-1513, 2021 (SCI-Expanded)
  16. **Multi-criteria handover management using entropy-based SAW method for SDN-based 5G small cells**  
CİCİOĞLU M.  
WIRELESS NETWORKS, vol.27, no.4, pp.2947-2959, 2021 (SCI-Expanded)
  17. **Performance analysis of handover management in 5G small cells**  
Cicioglu M.  
COMPUTER STANDARDS & INTERFACES, vol.75, 2021 (SCI-Expanded)
  18. **IoT-based GPS assisted surveillance system with inter-WBAN geographic routing for pandemic situations**  
Sen S. S., CİCİOĞLU M., Calhan A.  
JOURNAL OF BIOMEDICAL INFORMATICS, vol.116, 2021 (SCI-Expanded)
  19. **EHealth monitoring testbed with fuzzy based early warning score system**  
Calhan A., CİCİOĞLU M., Ceylan A.  
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.202, 2021 (SCI-Expanded)
  20. **Smart agriculture with internet of things in cornfields**  
CİCİOĞLU M., Calhan A.  
COMPUTERS & ELECTRICAL ENGINEERING, vol.90, 2021 (SCI-Expanded)
  21. **Internet of Things-Based Firefighters for Disaster Case Management**  
Cicioglu M., Calhan A.  
IEEE SENSORS JOURNAL, vol.21, no.1, pp.612-619, 2021 (SCI-Expanded)
  22. **Handover scheme for 5G small cell networks with non-orthogonal multiple access**  
Calhan A., Cicioglu M.  
COMPUTER NETWORKS, vol.183, 2020 (SCI-Expanded)

23. **Channel aware wireless body area network with cognitive radio technology in disaster cases**  
Cicioglu M., Calhan A.  
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.33, no.16, 2020 (SCI-Expanded)
24. **SDN-enabled Cognitive Radio Network Architecture**  
Cicioglu M., Cicioglu S., Calhan A.  
IET COMMUNICATIONS, vol.14, no.18, pp.3153-3160, 2020 (SCI-Expanded)
25. **IoT-based wireless body area networks for disaster cases**  
Cicioglu M., Calhan A.  
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.33, no.13, 2020 (SCI-Expanded)
26. **Energy-efficient and SDN-enabled routing algorithm for wireless body area networks**  
Cicioglu M., Calhan A.  
COMPUTER COMMUNICATIONS, vol.160, pp.228-239, 2020 (SCI-Expanded)
27. **Performance analysis of IEEE 802.15.6 for underground disaster cases**  
Cicioglu M., Calhan A.  
COMPUTER STANDARDS & INTERFACES, vol.66, 2019 (SCI-Expanded)
28. **HUBsFLOW: A novel interface protocol for SDN-enabled WBANs**  
Cicioglu M., Calhan A.  
COMPUTER NETWORKS, vol.160, pp.105-117, 2019 (SCI-Expanded)
29. **Performance Analysis of a New MAC Protocol for Wireless Cognitive Radio Networks**  
Cicioglu M., Bayrakdar M. E., Calhan A.  
WIRELESS PERSONAL COMMUNICATIONS, vol.108, no.1, pp.67-86, 2019 (SCI-Expanded)
30. **SDN-based wireless body area network routing algorithm for healthcare architecture**  
Cicioglu M., Calhan A.  
ETRI JOURNAL, vol.41, no.4, pp.452-464, 2019 (SCI-Expanded)
31. **Dynamic HUB Selection Process Based on Specific Absorption Rate for WBANs**  
Cicioglu M., Calhan A.  
IEEE SENSORS JOURNAL, vol.19, no.14, pp.5718-5722, 2019 (SCI-Expanded)

## Articles Published in Other Journals

1. **Sualtı Tasarsız Ağlarının Başarım Analizi**  
CİCİOĞLU M., ÇALHAN A.  
Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.6, pp.1079-1093, 2023 (Peer-Reviewed Journal)
2. **Deep Learning Based Modulation Recognition**  
Leblebici M. M., Çalhan A., Cicioğlu M.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.1, no.1, pp.1-20, 2023 (Peer-Reviewed Journal)
3. **Ağ Trafiğinin Akış Tabanlı Sınıflandırılmasında Akış Sürelerinin Makine Öğrenimi Algoritmalarına Etkisi**  
BOZKIR R., CİCİOĞLU M., TOĞAY C., ÇALHAN A.  
Avrupa Bilim ve Teknoloji Dergisi, vol.36, pp.276-283, 2022 (Peer-Reviewed Journal)
4. **Cloud Supported Internet of Medical Things Based Remote Health Monitoring System**  
Cicioğlu M., Çalhan A.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.26, no.3, pp.1083-1096, 2021 (Peer-Reviewed Journal)
5. **LSTM tabanlı Derin Sinir Ağı ile Beşinci Nesil Küçük Hücre Ağlarında El Değiştirme Tahmini**  
CİCİOĞLU M.  
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.8, pp.90-99, 2021 (Peer-Reviewed Journal)
6. **KABLOSUZ VÜCUT ALAN AĞLARI ARASI AODV TABANLI YÖNLENDİRME ALGORİTMASININ BAŞARIM ANALİZİ**  
SAVAŞÇI ŞEN S., CİCİOĞLU M., ÇALHAN A.

- Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.4, pp.1138-1149, 2020 (Peer-Reviewed Journal)
7. **Kablosuz Vücut Alan Ağları için Coğrafi Tabanlı Yönlendirme Algoritmasının Başarım Analizi**  
SAVAŞCI ŞEN S., CİCİOĞLU M., ÇALHAN A.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.4, pp.2480-2490, 2020 (Peer-Reviewed Journal)
  8. **Energy Harvesting Unit Design for Body Area Networks**  
ÇALHAN A., GÜNDOĞDU K., CİCİOĞLU M., BAYRAKDAR M. E.  
Sakarya University Journal of Computer and Information Sciences, vol.2, pp.41-51, 2019 (Peer-Reviewed Journal)
  9. **Software Defined Networks – SDN**  
Cicioğlu M., Çalhan A.  
Karaelmas Fen ve Mühendislik Dergisi, vol.7, no.2, pp.684-695, 2017 (Peer-Reviewed Journal)
  10. **MESLEK LİSESİ ÖĞRETMENLERİNİN EĞİTİME İNANMA DÜZEYLERİ İLE ÖĞRETME MOTİVASYONLAR**  
ARGON T., CİCİOĞLU M.  
The Journal of Academic Social Science Studies, vol.4, 2017 (Peer-Reviewed Journal)
  11. **Problematic Internet Use and Cyber Bullying in Vocational School Students**  
SEZGİN NARTGÜN Ş., CİCİOĞLU M.  
International Online Journal of Educational Sciences, 2015 (Peer-Reviewed Journal)

## Books & Book Chapters

1. **Teacher Candidate Experiences Related to Augmented Reality Applications**  
CİCİOĞLU M., SEZGİN NARTGÜN Ş.  
in: Enriching Teaching and Learning Environments With Contemporary Technologies, Durnali Mehmet, Limon İbrahim, Editor, IGI Global, pp.39-60, 2020

## Refereed Congress / Symposium Publications in Proceedings

1. **Pattern Search Based Firewall in Application Layer Uygulama Katmanında Desen Arama Tabanlı Güvenlik Duvarı**  
Kizilkaya T., CİCİOĞLU M., Togay C., Çalhan A.  
8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Turkey, 13 - 15 September 2023, pp.261-266
2. **Makine Öğrenmesi Kullanılarak Dünya Kupası Müسابakalarının Analizi**  
Yüce A. B., CİCİOĞLU M., ÇALHAN A.  
II. ULUSLARARASI YAPAY ZEKA VE VERİ BİLİMİ KONGRESİ (ICADA 2022), İzmir, Turkey, 17 June 2022
3. **Ağ Trafikinin Akış Tabanlı Sınıflandırılmasında Akış Sürelerinin Makine Öğrenimi Algoritmalarına Etkisi**  
BOZKIR R., CİCİOĞLU M., TOĞAY C., ÇALHAN A.  
1 ST INTERNATIONAL CONFERENCE ON ENGINEERING AND APPLIED NATURAL SCIENCES, Konya, Turkey, 10 May 2022
4. **Remote Health Monitoring System Modeling for Cyber-Physical Systems**  
CİCİOĞLU M., ÇALHAN A.  
The 30th IEEE Conference on Signal Processing and Communications Applications (SIU-2022), Karabük, Turkey, 10 May 2022
5. **Fuzzy Logic based Handover Management in Small Cell Networks**  
CİCİOĞLU M.  
IEEE 29th Signal Processing and Communications Applications Conference (SIU-2021), İstanbul, Turkey, 9 - 11 June 2021, pp.1-4
6. **Handover Management in SDN-based 5G Small Cell Network**  
CİCİOĞLU M.

2nd International Symposium on Applied Science and Engineering - ISASE 2021, Erzurum, Turkey, 7 - 09 April 2021, pp.523-525

7. **Bilişsel Radyo Ağlarında Makine Öğrenmesine Dayalı Kötü Niyetli Kullanıcı Tespiti**  
CİCİOĞLU M.  
2nd International Conference On Access To Recent Advances In Engineering And Digitalization (ARACONF 2021), Kayseri, Turkey, 10 - 12 March 2021, no.1, pp.212-220
8. **SDN-Enabled Wireless Body Area Networks**  
CİCİOĞLU M., ÇALHAN A.  
6th International Conference on Control Engineering Information Technology, İstanbul, Turkey, 25 October 2018
9. **Yazılım Tanımlı Ağ Yaklaşımına Dayalı Kablosuz Bilişsel Radyo Ağları için Yeni Bir OEK Tekniği: CRFLOW**  
CİCİOĞLU M., ÇALHAN A.  
2nd Engineers of Future International Student Symposium (EFIS 2018), Zonguldak, Turkey, 07 June 2018
10. **Performance analysis of software-defined network approach for wireless cognitive radio networks**  
CİCİOĞLU M., CİCİOĞLU S., ÇALHAN A.  
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 02 May 2018
11. **Performance analysis of mac technique developed for wireless cognitive radio networks**  
CİCİOĞLU M., BAYRAKDAR M. E., ÇALHAN A.  
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 02 May 2018
12. **Kablosuz vücut alan ağlarında 802.15.6 OEK tekniğinin performans analizi**  
CİCİOĞLU M., ÇALHAN A.  
2nd Engineers of Future International Student Symposium (EFIS 2018), Zonguldak, Turkey, 07 June 2018
13. **Performance Evaluation of Dynamic HUB Selection Algorithm for WBAN**  
CİCİOĞLU M., ÇALHAN A.  
6th International Conference on Control Engineering Information Technology, İstanbul, Turkey, 25 October 2018
14. **Bulanık Mantık ile Çamaşır Kurutma Makinesi Modellemesi**  
CİCİOĞLU M., CİCİOĞLU S., YÜCEDAĞ İ.  
Akademik Bilişim 2018, Karabük, Turkey, 31 January 2018
15. **Yazılım Tanımlı Bilişsel Radyo Ağları**  
CİCİOĞLU M., CİCİOĞLU S., ÇALHAN A.  
Ines International Academic Research Congress 2016, Antalya, Turkey, 03 November 2016
16. **Yazılım Tanımlı Ağlarda Denetleyiciler**  
CİCİOĞLU M., ÇALHAN A.  
Ines International Academic Research Congress 2016, Antalya, Turkey, 03 November 2016

## Academic and Administrative Experience

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2022 - Continues	<b>Deputy Head of Department</b>	Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ
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## Courses

ÇOK DEĞİŞKENLİ İSTATİKSEL VERİ ANALİZİ, Doctorate, 2021 - 2022

Makine Öğrenimine Giriş, Postgraduate, 2021 - 2022

VERİ YAPILARI, Undergraduate, 2022 - 2023

BİLGİSAYAR AĞLARI, Undergraduate, 2022 - 2023

TASARIM DERSİ, Undergraduate, 2021 - 2022

ADVANCED TOPICS IN MA THESIS, Postgraduate, 2021 - 2022

INTRODUCTION TO COMPUTER PROGRAMMING, Undergraduate, 2020 - 2021  
INTRODUCTION TO PYTHON PROGRAMMING, Undergraduate, 2020 - 2021  
FUNDAMENTAL PROTOCOLS IN COMPUTER NETWORKS, Postgraduate, 2021 - 2022  
System Programming, Undergraduate, 2020 - 2021  
BİTİRME PROJESİ, Undergraduate, 2021 - 2022  
VISUAL PROGRAMMING, Undergraduate, 2020 - 2021  
THESIS CONSULTING, Postgraduate, 2021 - 2022

### Advising Theses

Cicioğlu M., Toğay C., PATTERN SEARCH-BASED FIREWALL IN APPLICATION LAYER, Postgraduate,  
T.KIZILKAYA(Student), 2023  
Cicioğlu M., Şifreli Ağ Trafikinin İçerik Açısından Sınıflandırılması, Postgraduate, R.BOZKIR(Student), 2022

### Activities in Scientific Journals

BMC MEDICAL INFORMATICS AND DECISION MAKING, Committee Member, 2024 - Continues  
The International Arab Journal of Information Technology (IAJIT), Committee Member, 2022 - Continues

### Memberships / Tasks in Scientific Organizations

6G Platform, Member, 2021 - 2023, Turkey

### Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, August 2023  
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Bursa Uludağ University, Turkey, August 2023  
KOSGEB, Bursa Uludağ University, Turkey, April 2023  
COMPUTER NETWORKS, SCI Journal, November 2022  
COMPUTER NETWORKS, SCI Journal, September 2022  
KOSGEB, Bursa Uludağ University, Turkey, September 2022  
COMPUTER NETWORKS, SCI Journal, August 2022  
COMPUTERS AND ELECTRICAL ENGINEERING, SCI Journal, August 2022  
COMPUTER NETWORKS, SCI Journal, July 2022  
COMPUTER NETWORKS, SCI Journal, July 2022  
COMPUTER NETWORKS, SCI Journal, June 2022  
COMPUTER NETWORKS, SCI Journal, May 2022  
COMPUTER NETWORKS, SCI Journal, April 2022  
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TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Bursa Uludağ University, Turkey, February 2022  
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## Scientific Consultations

Biorobotec Bionic Robot Teknolojileri A.Ş., Project Consultancy, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey, 2024 - 2024  
APRA Mühendislik ve Yönetim Danışmanlığı, Project Consultancy, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, Turkey, 2023 - 2023

## Metrics

Publication: 59  
Citation (WoS): 322  
Citation (Scopus): 448  
H-Index (WoS): 11  
H-Index (Scopus): 12

## Congress and Symposium Activities

Medikal Teknolojiler ve Sağlıkta Yapay Zeka, Invited Speaker, Bursa, Turkey, 2022

## Research Areas

algorithms, Performance Modelling and Evaluation, Simulation and Modelling, Computer Networks, Communications and Network Protocols, Data Routing, Data Representation and Storage, Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Software, Programming Languages