

Lect. PhD ŞEYMA AYMAZ



## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-5250-2020

Yoksis Researcher ID: 15757



## Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2016 - 2023

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Department of Computer Engineering, Turkey 2013 - 2016

Undergraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Department of Computer Engineering, Turkey 2008 - 2012

## Dissertations

Doctorate, Optimizing the load balancing problem in software-defined networks, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2023

Postgraduate, Design and implementation of a telepresence robot, Karadeniz Technical University, Bilgisayar Mühendisliği, 2016

## Academic Titles / Tasks

Lecturer PhD, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Bilgisayar Teknolojileri, 2023 - Continues

Lecturer, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Bilgisayar Teknolojileri, 2022 - 2023

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2013 - 2022

## Courses

Mobil Programlama, Associate Degree, 2024 - 2025

Sayısal Tasarım Laboratuvarı, Undergraduate, 2023 - 2024

İş Sağlığı ve Güvenliği - II, Undergraduate, 2023 - 2024

Operating systems, Associate Degree, 2023 - 2024

Object Oriented Programming - I, Associate Degree, 2023 - 2024

Web Design Fundamentals, Associate Degree, 2022 - 2023

Professional English - I, Associate Degree, 2023 - 2024

Professional English II, Associate Degree, 2022 - 2023

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

- I. **Real-time application of a demand-side management strategy using optimization algorithms**  
Tüysüz M., Okumuş H. I., Aymaz Ş., Çavdar B.  
APPLIED ENERGY, vol.368, 2024 (SCI-Expanded)
- II. **A Framework for Elephant Flow Detection for SDNs Based on the Classification**  
Çavdar T., Aymaz Ş., Aymaz S.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.49, no.3, pp.4243-4252, 2024 (SCI-Expanded)
- III. **Efficient Routing by Detecting Elephant Flows with Deep Learning Method in SDN**  
Aymaz Ş., Cavdar T.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.23, no.3, pp.57-66, 2023 (SCI-Expanded)
- IV. **New approach to dynamic load balancing in software-defined network-based data centers**  
Çavdar T., Aymaz Ş.  
ETRI JOURNAL, vol.45, no.3, pp.433-447, 2023 (SCI-Expanded)
- V. **A novel approach with the dynamic decision mechanism (DDM) in multi-focus image fusion**  
Aymaz S., KÖSE C., AYMAZ Ş.  
MULTIMEDIA TOOLS AND APPLICATIONS, vol.82, no.2, pp.1821-1871, 2023 (SCI-Expanded)
- VI. **Multi-focus image fusion for different datasets with super-resolution using gradient-based new fusion rule**  
Aymaz S., KÖSE C., AYMAZ Ş.  
MULTIMEDIA TOOLS AND APPLICATIONS, vol.79, pp.13311-13350, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A new classification-based approach for multi-focus image fusion**  
AYMAZ S., AYMAZ Ş., KÖSE C.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, pp.12-26, 2024 (ESCI)
- II. **MEASUREMENT OF ENERGY CONSUMPTION OF WSN FOR INDOOR ENVIRONMENT**  
AYMAZ Ş., HACIOĞLU G.  
International Journal of Energy Applications and Technologies, vol.4, no.2, pp.87-93, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A New Approach to Help Diagnose Coronary Artery Disease**  
Aymaz S., Aymaz Ş.  
2024 32nd Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 - 18 May 2024, pp.1-4
- II. **Load Balancing with a New Approach for Dynamic Server Selection in Software Defined Network**  
AYMAZ Ş., ÇAVDAR T., Aymaz S.  
The 1st International Conference on Electrical-Electronics and Computer Engineering (ICEECE 2021), Trabzon, Turkey, 24 - 25 July 2021
- III. **An Analysis of Load Balancing Strategies with Wireshark in Software Defined Networks**  
AYMAZ Ş., ÇAVDAR T., Aymaz S., ÖZTÜRK E.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018

- IV. **A New Hybrid Approach with Perona-Malik Improvement for Multi-focus Image Fusion**  
Aymaz S., DİZDAROĞLU B., KÖSE C., AYMAZ Ş.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- V. **Fire Evacuation Route Determination based on Particle Swarm Optimization**  
AYMAZ Ş., ÇAVDAR T., DÖNMEZ ÇAVDAR A.  
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- VI. **Uzabulum Robotlarda Konum Tespiti**  
ÇAVDAR T., AYMAZ Ş., AYMAZ S.  
2016 Otomatik Kontrol Ulusal Toplantısı TOK'2016, Eskişehir, Turkey, 29 September - 01 October 2016
- VII. **Ultrasonic Assistive Headset for Visually Impaired People**  
AYMAZ Ş., ÇAVDAR T.  
39th International Conference on Telecommunications and Signal Processing (TSP), Vienna, Austria, 27 - 29 June 2016, pp.388-391
- VIII. **Detection of Copy Move Forgery using Legendre Moments**  
Aymaz S., AYMAZ Ş., ULUTAŞ G.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1125-1128
- IX. **Bir Uzabulum (Telepresence) Robotun Tasarımı ve Gerçeklenmesi**  
ÇAVDAR T., AYMAZ Ş.  
Mühendislikte Yeni Teknolojiler Sempozyumu (MYT 2015), Bayburt, Turkey, 22 - 24 October 2015

## Supported Projects

ÖZTEKİN KULOĞLU E., AKYAZ ALAÇAM S., AYGÜN Ö., NAS E., YILMAZ E., ÜÇÜNCÜ F., DİNCER N., AYMAZ Ş., AKKOYUN F.,  
Project Supported by Higher Education Institutions, Eğitimi ve Araştırmayı Desteklemek için Bilgisayar Teknolojileriyle Entegre Eklemeli İmalat Laboratuvarının Kurulması, 2023 - Continues  
ÇAVDAR T., AYMAZ Ş., Project Supported by Higher Education Institutions, Büyük Ölçekli Yazılım Tanımlı Ağlarda SDN Yük Dengeleme Probleminin Optimizasyonu, 2021 - 2022

## Metrics

Publication: 18  
Citation (WoS): 46  
Citation (Scopus): 70  
H-Index (WoS): 3  
H-Index (Scopus): 4