

## Asst. Prof. AYKUT GÖRKEM GELEN

### Personal Information

**Office Phone:** [+90 446 224 0088](tel:+904462240088) Extension: 43140

**Email:** [aykut.gelen@erzincan.edu.tr](mailto:aykut.gelen@erzincan.edu.tr)

**Web:** <https://aggelen.github.io/>

### International Researcher IDs

ScholarID: dVtdIMUAAAAJ

ORCID: 0000-0002-3403-2401

Publons / Web Of Science ResearcherID: GLR-1265-2022

Yoksis Researcher ID: 271872

### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2017 - 2023

Undergraduate, Anadolu University, Faculty Of Economics, İktisat, Turkey 2015 - 2018

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2015 - 2017

Undergraduate, Gaziantep University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği, Turkey 2010 - 2015

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Eğitimcilerin Eğitimi Sertifika Programı, Erzincan Binali Yıldırım Üniversitesi, 2021

### Dissertations

Doctorate, Simultaneous Localization and Mapping Based on Event Based Vision, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Anabilim Dalı, 2023

Postgraduate, Target Tracking with Implementation Problems, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Anabilim Dalı, 2017

### Research Areas

Electrical and Electronics Engineering, Electronic, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yıldırım University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2024 - Continues

Research Assistant, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2017 - 2024

## Academic and Administrative Experience

Deputy Head of Department, Erzincan Binali Yildirim University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2024 - Continues

## Courses

Artificial Neural Networks, Undergraduate, 2024 - 2025  
Introduction to Electronics, Undergraduate, 2023 - 2024  
Computer Programming, Undergraduate, 2024 - 2025, 2023 - 2024  
Sayısal Tasarım, Undergraduate, 2023 - 2024  
Network Synthesis, Undergraduate, 2024 - 2025  
Microprocessors and Microcontrollers, Undergraduate, 2023 - 2024  
Graduation project, Undergraduate, 2023 - 2024  
Autonomous Mobile Robots, Postgraduate, 2024 - 2025  
Digital Design Laboratory, Undergraduate, 2023 - 2024  
Electronic Circuits Laboratory 1, Undergraduate, 2023 - 2024

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

- I. **SPAYK: An environment for spiking neural network simulation**  
Gelen A. G., Atasoy A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.31, no.2, pp.462-480, 2023  
(SCI-Expanded)
- II. **An Artificial Neural SLAM Framework for Event-Based Vision**  
GELEN A. G., ATASOY A.  
IEEE Access, vol.11, pp.58436-58450, 2023 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Spiking Neural Networks Involving a New Learning Paradigm**  
İşler Y. S., Şengör N. S., Elibol R., Gelen A. G.  
10th International Symposium on Brain and Cognitive Science, Ankara, Turkey, 1 - 02 November 2024, pp.82-83
- II. **A New Method for Kalman Filter Tuning**  
Gelen A. G., Atasoy A.  
2018 International Conference on Artificial Intelligence and Data Processing, IDAP 2018, Malatya, Turkey, 28 - 30 September 2018
- III. **Target tracking analysis with Kalman filter in case of model mismatch Model Uyumsuzluğunda Kalman Filtresi ile Hedef İzleme Analizi**  
Gelen A. G., Atasoy A.  
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- IV. **Multiple Target Tracking Simulation at an Intersection**  
Gelen A. G., Atasoy A.  
5th International Conference on Advanced Technology & Sciences, İstanbul, Turkey, 9 - 12 May 2017, pp.748-753

## Supported Projects

Gelen A. G., Şengör N. S., Elibol R., İşler Y. S., TUBITAK Project, Yeni Bir Vuru Üreten Nöral Devre Tabanlı Öngörüşel Kodlama Yapısı ve Öğrenme Kuralının Geliştirilmesi, 2024 - 2027

Gelen A. G., Atasoy A., TUBITAK Project, Otonom Mobil Robotlar İçin Olay Tabanlı Görsel Algıya Dayalı Navigasyon Algoritmalarının Geliştirilmesi Ve Deneysel Uygulamaları, 2021 - 2022

## Memberships / Tasks in Scientific Organizations

IEEE Robotics and Automation Society, Member, 2020 - Continues, United States Of America

Institute of Electrical and Electronics Engineers, IEEE, Member, 2018 - Continues, United States Of America

## Scientific Refereeing

IEEE LATIN AMERICA TRANSACTIONS, SCI Journal, August 2023

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, August 2023

IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, SCI Journal, July 2023

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, March 2023

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, SCI Journal, February 2023

## Metrics

Publication: 6

Citation (Scopus): 15

H-Index (Scopus): 2