

## Lect. PhD GÜNEŞ EKİM

### Personal Information

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### International Researcher IDs

ScholarID: SGMqkOgAAAAJ

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Publons / Web Of Science ResearcherID: AAK-4494-2021

ScopusID: 15834403900

Yoksis Researcher ID: 152717

### Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 2016 - 2021

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 1994 - 1999

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 1990 - 1994

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, MORS KODUNU KONUŞMAYA ÇEVİREN EEG TABANLI BEYİN-BİLGİSAYAR ARAYÜZÜ, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, 2021

Postgraduate, Uydu Haberleşme Kanallarının Bilgisayar Simülasyonu, Karadeniz Technical University, -, Elektrik-Elektronik Mühendisliği, 1999

### Research Areas

Biomedical Engineering, Biosignal Processing, Electrical and Electronics Engineering, Electronic Circuits

### Academic Titles / Tasks

Lecturer PhD, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Elektronik ve Otomasyon, 2021 - Continues

Lecturer, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Elektronik ve Otomasyon, 2001 - 2021

Teacher, Ministry of Education, Araklı ÇPL, Electronics Department, 1998 - 2001

Teacher, Ministry of Education, Rize Mimar Sinan EML, Electronics Department, 1996 - 1998

## Academic and Administrative Experience

Head of Department, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Elektronik ve Otomasyon, 2021 - 2024

Deputy Head of Department, Karadeniz Technical University, Trabzon Meslek Yüksekokulu, Elektronik ve Otomasyon, 2001 - 2012

## Courses

Computer Aided Circuit Design, Associate Degree, 2024 - 2025

Biyomedikal Enstrümantasyon -I, Associate Degree, 2024 - 2025

Haberleşme Laboratuvarı, Associate Degree, 2023 - 2024

Professional Experience II, Associate Degree, 2021 - 2022

Computer Aided Circuit Design, Associate Degree, 2021 - 2022

Algoritma ve Programlama, Associate Degree, 2022 - 2023

System Analysis and Design, Associate Degree, 2021 - 2022

Biomedical Instrumentation II, Associate Degree, 2021 - 2022

Research Methods and Techniques, Associate Degree, 2021 - 2022

Professional Experience I, Associate Degree, 2021 - 2022

Computer Aided Circuit Design, Associate Degree, 2021 - 2022

Amplifiers and Oscillators, Associate Degree, 2021 - 2022

Alternatif Akım Devre Analizi, Associate Degree, 2019 - 2020

Doğru Akım Devre Analizi, Associate Degree, 2019 - 2020

Arıza Analizi, Associate Degree, 2018 - 2019

Ameliyathane Cihazları, Associate Degree, 2017 - 2018

Elektronik Meslek Bilgisi ve Güvenlik, Associate Degree, 2012 - 2013

Sayısal Elektronik, Associate Degree, 2010 - 2011

Mesleki Matematik II, Associate Degree, 2008 - 2009

Elektronik I, Associate Degree, 2008 - 2009

Mesleki Matematik I, Associate Degree, 2008 - 2009

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

- I. **A Novel Approach on Converting Eye Blink Signals in EEG to Speech with Cross Correlation Technique**  
İkizler N., Ekim G., Atasoy A.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.23, no.2, pp.29-38, 2023 (SCI-Expanded)
- II. **A Study on Eye-Blink Detection-Based Communication System by Using K-Nearest Neighbors Classifier**  
Ekim G., İkizler N., Atasoy A.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.23, no.1, pp.71-78, 2023 (SCI-Expanded)
- III. **A New Approach for Eye-Blink to Speech Conversion by Dynamic Time Warping**  
Ekim G., Atasoy A., İkizler N.  
Traitement Du Signal, vol.38, no.2, pp.369-377, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigating effects of Levenshtein distance algorithm on accuracy performance in EEG based communication system**  
Ekim G., İkizler N., Atasoy A.

## Refereed Congress / Symposium Publications in Proceedings

- I. **EEG Based Communication System by Using Artificial Neural Networks**  
Ekim G., İközler N., Atasoy A.  
2023 Tıp Teknolojileri Kongresi-TIPTEKNO'23/2023 Medical Technologies Congress-TIPTEKNO'23, Gazimagusa, Cyprus (Kktc), 10 - 12 November 2023, pp.46-49
- II. **Tek Kanallı EEG Sinyal Toplama Cihazı Tasarımı**  
Ekim G., Atasoy A., İközler N.  
28. IEEE SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI, Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- III. **The Effects of Different Wavelet Degrees on Epileptic Seizure Detection from EEG Signals**  
EKİM G., İKİZLER N., ATASOY A.  
IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Gdynia, Poland, 3 - 05 July 2017, pp.316-321
- IV. **Statistical Comparison of Classification Methods in EEG Signals**  
EKİM G., ATASOY A., İKİZLER N.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- V. **A SPEAKER RECOGNITION SYSTEM USING BY CROSS CORRELATION**  
Ekim G., İKİZLER N., ATASOY A., ÇAVDAR İ. H.  
IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.18-21
- VI. **Türkçe'de Konuşmacıdan Bağımsız Ayrık Hece Tanıma Sistemi**  
İközler N., Çavdar İ. H., Ekim G.  
IEEE SIU 2005, Kayseri, Turkey, 16 - 18 May 2005, vol.1, pp.55-59

## Activities in Scientific Journals

Ingénierie des Systèmes d'Information, Committee Member, 2022 - Continues

## Metrics

Publication: 10

Citation (WoS): 10

Citation (Scopus): 7

H-Index (WoS): 3

H-Index (Scopus): 3

## Congress and Symposium Activities

IEEE International Conference on INnovations in Intelligent SysTems and Applications, Attendee, Gdynia, Poland, 2017

25. SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI, Attendee, Antalya, Turkey, 2017

16. SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI, Attendee, Aydın, Turkey, 2008

## Non Academic Experience

KARADENİZ TEKNİK ÜNİVERSİTESİ

Milli Eğitim Bakanlığı