

Res. Asst. PhD GÖKÇEN ÖZDEMİR

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666)

Email: gozdemir@erciyes.edu.tr

Web: <https://avesis.erciyes.edu.tr/gozdemir/>

International Researcher IDs

ORCID: 0000-0002-3175-6893

Yoksis Researcher ID: 200743

Education Information

Post Doctorate, Old Dominion University, Engineering Technology, Electrical Engineering Technology, United States Of America 2022 - 2024

Doctorate, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey 2016 - 2019

Postgraduate, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey 2006 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, COSINE MODULATED FILTER BANK DESIGN USING ABC ALGORITHM, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2019

Postgraduate, ÇOK TAŞIYICILI - KOD BÖLMELİ ÇOKLU ERİŞİM (MC-CDMA) SİSTEMLERİNDE KANAL KESTİRİMİ, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2009

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2019 - Continues

Research Assistant, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2007 - 2019

Academic and Administrative Experience

İntibak Komisyonu Başkanı, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2020 - 2022

Uzaktan Eğitim Birim Temsilcisi, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2020 - 2022

Staj Komisyonu Üyesi, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, 2014 - 2020

Courses

Electrical Circuits I, Undergraduate, 2023 - 2024
Linear Electronics Laboratory, Undergraduate, 2022 - 2023
Linear Electronics, Undergraduate, 2022 - 2023
Digital Electronics, Undergraduate, 2023 - 2024
Electrical Circuits II, Undergraduate, 2023 - 2024
Occupational Health and Safety II, Undergraduate, 2021 - 2022
Logical Laboratory, Undergraduate, 2021 - 2022, 2020 - 2021
Electrical Installations, Undergraduate, 2020 - 2021
Telecommunication Laboratory, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Illumination Technique, Undergraduate, 2021 - 2022, 2020 - 2021
Occupational Health and Safety I, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Uniform cosine modulated filter banks - a new cascade method based on window functions**
Ozdemir G., Karaboga N.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.35, no.1, pp.403-418, 2020 (SCI-Expanded)
- II. **A review on the cosine modulated filter bank studies using meta-heuristic optimization algorithms**
Özdemir G., Karaboğa N.
ARTIFICIAL INTELLIGENCE REVIEW, vol.52, no.3, pp.1629-1653, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Süzgeç Bankası Tasarımında Kullanılan ABC Algoritmasının Kontrol Parametrelerindeki Değişimin Performansa Etkisinin İncelenmesi**
Karaboğa N., Özdemir G.
Akıllı Sistemler ve Uygulamaları Dergisi , vol.1, no.2, pp.243-246, 2018 (Peer-Reviewed Journal)
- II. **Comparison of Reconstruction Algorithms for Sparse Signal Recovery from Noisy Measurement**
Erkoç M. E., Özdemir G., Karaboğa N.
Majlesi Journal of Telecommunication Devices, vol.7, no.1, pp.17-21, 2018 (Peer-Reviewed Journal)
- III. **Analysis of the Effects of the Frequency Band Values on the Performance of the Cosine Modulated Filter Bank Design**
Özdemir G., Erkoç M. E., Karaboğa N.
Majlesi Journal of Telecommunication Devices, vol.7, no.7, pp.11-15, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **15. Big Data Applications in Electric Power Systems: The Role of Explainable Artificial Intelligence (XAI) in Smart Grids**
Özdemir G., Kuzlu M., Sarp S., Catak F. O., Dimd B. D., Cali U.
in: Big Data Application in Power Systems 2nd Edition, Reza Arghandeh, Yuxun Zhou, Editor, Elsevier Science, Oxford/Amsterdam , London, pp.349-364, 2024
- II. **Chapter 3. A New Approach to Kaiser and Gaussian Window Based Cosine Modulated Filter Bank**

Design

Özdemir G., Karaboğa N.

in: Optimization and Robotic Applications, Turgut Ozseven, Editor, NOVA Science Publishers Inc. , New York, pp.63-93, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Boosting Solar Power Forecast Accuracy: Deep Learning and Explainable Artificial Intelligence Integration**
Özdemir G., Özdemir U., Kuzlu M.
ASYU Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı, Ankara, Turkey, 16 - 18 October 2024, pp.1-4
- II. **A Benchmark for ML-based Solar Power Generation Forecasting Models**
Ozdemir G., ÖZDEMİR U., Kuzlu M., Catak F. O.
13th Mediterranean Conference on Embedded Computing (MECO), Budva, Montenegro, 11 - 14 June 2024, pp.324-327
- III. **The effect of the increase in the number of channels to the performance in the Cosine Modulated Filter Bank design**
Özdemir G., Karaboğa N.
Sinyal İşleme ve İletişim Uygulamaları (SİU 2018) Kurultayı, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- IV. **USING FPGA'S FOR EDUCATIONAL PURPOSES IN LOGIC LABORATORY**
ÖZDEMİR G., ERKOÇ M. E., KARABOĞA N.
ICEMST-2018, International Conference on Education in Mathematics, Science and Technology, Muğla, Turkey, 28 April - 01 May 2018
- V. **INTEGRATION OF PROGRAMMABLE HARDWARES TO ENGINEERING EDUCATION:FPGA'S**
ERKOÇ M. E., ÖZDEMİR G., ÖZDEMİR U., KARABOĞA N.
ICEMST-2018, International Conference on Education in Mathematics, Science and Technology, Muğla, Turkey, 28 April - 01 May 2018
- VI. **Süzgeç Bankası Tasarımında Kullanılan ABC Algoritmasının Kontrol Parametrelerindeki Değişimin Performansa Etkisinin İncelenmesi**
ÖZDEMİR G., KARABOĞA N.
Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı, ASYU-2017, 5 - 07 October 2017
- VII. **Design of M-Channel Uniform Cosine Modulated Filter Bank Using qABC Algorithm**
ÖZDEMİR G., KARABOĞA N.
International Workshop, " Mathematical Methods in Engineering, MME-2017, 27 - 29 April 2017
- VIII. **Performance Comparison of Two Channel CMFB and QMF Bank Designed via ABC Algorithm**
ÖZDEMİR G., KARABOĞA N., KOZA T.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- IX. **4. Nesil Haberleşme Teknolojilerinde OFDMA**
ÖZDEMİR G., TAŞPINAR N.
URSI (Union Radio Scientifique Internationale) TÜRKİYE VII. Bilimsel Kongresi, Elazığ, Turkey, 28 - 30 August 2014, pp.326-328
- X. **Çok Taşıyıcılı Kod Bölmeli Çoklu Erişim (MC-CDMA) Sistemlerinde Kanal Kestirimi**
ÖZDEMİR G., TAŞPINAR N.
HABTEKUS'2009, Haberleşme Teknolojileri ve Uygulamaları Sempozyumu, İstanbul, Turkey, 9 - 11 December 2009, pp.153-155
- XI. **OFDM ile MC-CDMA Sistemlerinin Karşılaştırılması**
ÖZDEMİR G., TAŞPINAR N.
İTUSEM'2009, IV. İletişim Teknolojileri Ulusal Sempozyumu, Adana, Turkey, 15 - 16 October 2009, pp.103-106
- XII. **Uçak İçi OFDM Tabanlı Kablosuz İnternet Erişimi**
SEYMAN M., ÖZDEMİR G., TAŞPINAR N.

Metrics

Publication: 23

Citation (WoS): 12

Citation (Scopus): 25

H-Index (WoS): 2

H-Index (Scopus): 3