

Res. Asst. ERDİ ACAR

Personal Information

Email: eracar@gelisim.edu.tr

Web: <https://avesis.gelisim.edu.tr/eracar>

International Researcher IDs

ScholarID: XiCB1k0AAAAJ

ORCID: 0000-0002-1451-7874

Publons / Web Of Science ResearcherID: IVV-2556-2023

Yoksis Researcher ID: 365329

Education Information

Doctorate, Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Computer Engineering, Turkey 2022 - Continues

Postgraduate, Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Computer Engineering, Turkey 2018 - 2021

Undergraduate, Canakkale Onsekiz Mart University, Fen Fakültesi, Matematik, Turkey 2013 - 2017

Dissertations

Postgraduate, COVID-19 detection with hybrid quantum-classic machine learning, Canakkale Onsekiz Mart University, Lisansüstü Eğitim Enstitüsü, Fen Bilimleri Enstitüsü, 2021

Research Areas

Computer Sciences, Quantum Calculation, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Research Assistant, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, COMPUTER ENGINEERING, 2023 - Continues

Lecturer, Istanbul Rumeli University, Faculty of Engineering and Natural Sciences, Computer Engineering, 2022 - 2023

Courses

Logic Circuits, Undergraduate, 2022 - 2023, 2021 - 2022

Formal Languages and Automata, Undergraduate, 2022 - 2023, 2021 - 2022

Programming Languages, Undergraduate, 2022 - 2023, 2021 - 2022

Quantum Computers and Algorithms, Undergraduate, 2022 - 2023

Data Structures, Undergraduate, 2022 - 2023

Operating Systems, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A quantum algorithm for solving weapon target assignment problem**
Acar E., Hatipođlu S., YILMAZ İ.
Engineering Applications of Artificial Intelligence, vol.125, 2023 (SCI-Expanded)
- II. **High-dimensional Grover multi-target search algorithm on Cirq**
Acar E., GÜNDÜZ S., Akpınar G., YILMAZ İ.
European Physical Journal Plus, vol.137, no.2, 2022 (SCI-Expanded)
- III. **Improving effectiveness of different deep learning-based models for detecting COVID-19 from computed tomography (CT) images**
Acar E., ŞAHİN E., YILMAZ İ.
Neural Computing and Applications, vol.33, no.24, pp.17589-17609, 2021 (SCI-Expanded)
- IV. **COVID-19 detection on IBM quantum computer with classical-quantum transfer learning**
Acar E., YILMAZ İ.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, no.1, pp.46-61, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **Mühendislik Eğitiminde Sanal Dershane Üzerine Bir DeđerlendirmeMühendislik Eğitiminde Sanal Dershane Üzerine Bir Deđerlendirme**
CAN A., MEMİŞ S., BULUT S., ACAR E., HATİPOĐLU S., Vardar İ. E.
Tesisat Mühendisliđi, no.194, pp.7-14, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Kuantum Hesaplama Öğreniminin Mühendislik Alanına Katkıları**
Hatipođlu S., Bulut S., Acar E., Yılmaz İ.
3. RUMELİ MÜHENDİSLİK EĐİTİMİ SEMPOZYUMU, İstanbul, Turkey, 22 - 23 June 2023, pp.147-155
- II. **Secure Quantum Communications Based on Clifford Scrambling with Blind Trent**
YILMAZ İ., ACAR E.
12th International Conference on Information Security and Cryptology 2019, Ankara, Turkey, 16 October 2019, pp.80-82

Supported Projects

Haşilođlu A., Özyiđit H. A., Aykut E., Dumanlı M., Şenol M., Öztaş O., Pourabbas S., Güngör A., Taştan A. N., Avcı M. C., et al, Project Supported by Other Official Institutions, IGUROB: Yapay Zeka Destekli İnsansı Robot Tasarımı, 2024 - 2027

Can A., Memiş S., Bulut S., Acar E., Hatipođlu S., Vardar İ. E., Project Supported by Higher Education Institutions, Uzaktan Eğitim ve Örgün Eğitim Süreçlerinin Öğrenci Başarısı Üzerinde Etkisi ve Eğitim Materyalleri Geliştirme Süreçlerinin İncelenmesi, 2021 - 2022

Yılmaz İ., TUBITAK Project, Kuantum Bilişim Teknolojileri Kullanılarak Kuantum Ağ Simülasyon Yazılımı Geliştirilmesi, 2020 - 2021

Scientific Refereeing

Journal of advanced research in natural and applied sciences (Online), Other Indexed Journal, September 2024

Journal of advanced research in natural and applied sciences (Online), Other Indexed Journal, July 2024

QUANTUM INFORMATION AND COMPUTATION, Journal Indexed in SCI-E, July 2024

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, July 2023
Journal of New Theory, Other Indexed Journal, June 2022

Metrics

Publication: 7

Citation (WoS): 40

Citation (Scopus): 51

H-Index (WoS): 3

H-Index (Scopus): 3

Awards

Acar E., Gündüz S., Ceylan O. S., Teknofest Kuantum Hackathon İkincilik Ödülü, Teknofest, October 2024