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Profesör

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Araştırma alanları: Mühendislik Temel Alanı > Bilgisayar Bilimleri ve Mühendisliği

Anahtar kelimeler: Bilgisayar ve İletişim Ağları, Algoritmalar ve Hesaplama Kuramı, Yapay Zeka

ÖZET GÖSTERGELER

MAKALE 94 WoS 82 · Scopus 4 · TR Dizin 4	BİLDİRİ 18	KİTAP · KİTAPTA BÖLÜM 4 · 1	PROJE 11 yürütücü 4	TEZ DANIŞMANLIĞI 8 doktora 3	ATIF (KAYNAK MAKS.) 2.952 h-index Scopus 29 · WoS 26 · GS 37
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EĞİTİM

2010 – 2014	Doktora · Bilgisayar Mühendisliği (Dr) (İngilizce) Dokuz Eylül Üniversitesi · Fen Bilimleri Enstitüsü Tez: <i>Designing new routing algorithms for wireless sensor networks</i>
2007 – 2009	Yüksek Lisans Islamic Azad University - Shabestar (Bilgisayar Mühendisliği) Tez: <i>Prolonging Lifetime of Wireless Sensor Networks by Dynamically Distribute Sensor Nodes in Peer Clusters</i>
2002 – 2006	Lisans Islamic Azad University - Shabestar (Bilgisayar-Yazılım Mühendisliği)

AKADEMİK GÖREVLER

2022 – devam ediyor	Doçent Fatih Sultan Mehmet Vakıf Üniversitesi · Mühendislik Fakültesi · Bilgisayar Mühendisliği Bölümü
2020 – 2022	Doçent İstinye Üniversitesi · Mühendislik ve Doğa Bilimleri Fakültesi · Yazılım Mühendisliği Bölümü
2019 – 2020	Doçent İstanbul Arel Üniversitesi · Mühendislik-Mimarlık Fakültesi · Bilgisayar Mühendisliği Bölümü
2014 – 2019	Doktor Öğretim Üyesi İstanbul Sabahattin Zaim Üniversitesi · Mühendislik ve Doğa Bilimleri Fakültesi · Bilgisayar Mühendisliği Bölümü

İDARİ GÖREVLER

2023 – devam ediyor	Arş. Uyg. Merkezi Müdürü Fatih Sultan Mehmet Vakıf Üniversitesi
2022 – devam ediyor	Fakülte Kurulu Üyeliği Fatih Sultan Mehmet Vakıf Üniversitesi
2022 – devam ediyor	Fakülte Yönetim Kurulu Üyeliği Fatih Sultan Mehmet Vakıf Üniversitesi
2021 – 2022	Anabilim Dalı Başkanı

2021 – 2022	Komisyon Üyeliği İstinye Üniversitesi
2021 – 2022	Bölüm Başkanı İstinye Üniversitesi
2021 – 2022	Anabilim Dalı Başkanı İstinye Üniversitesi
2020 – 2022	Fakülte Kurulu Üyeliği İstinye Üniversitesi
2020 – 2022	Bölüm Başkanı İstinye Üniversitesi
2017 – 2019	Komisyon Başkanlığı İstanbul Sabahattin Zaim Üniversitesi
2016 – 2017	Enstitü Müdür Yardımcısı İstanbul Sabahattin Zaim Üniversitesi
2016 – 2019	Bölüm Başkan Yardımcısı İstanbul Sabahattin Zaim Üniversitesi
2015 – 2019	Araştırma laboratuvar Kurucusu ve Başkanı İstanbul Sabahattin Zaim Üniversitesi

MAKALELER (94)

1. ARASTEH ABBASABAD BAHMAN,KARIMI MOHAMMADBAGHER,KUSETOĞULLARI HÜSEYİN,ARASTEH ABBASABAD KEYVAN,ANKA FERZAT (2026). A cybersecurity method to detect SQL injection attacks using heuristic-driven feature selection and machine learning algorithms. The Journal of Supercomputing, 82. SCI-Expanded · Uluslararası · DOI: 10.1007/s11227-025-08165-y
2. ÇİFTÇİ FATİH,Usta Ayanoğlu Kadriye Yasemin,NEMATZADEH MIANDOAB SAJJAD,ANKA FERZAT (2026). A Dual-Model AI Framework for Alzheimer's Disease Diagnosis Using Clinical and MRI Data. Frontiers in Medicine. SCI-Expanded · Uluslararası · DOI: 10.3389/fmed.2025.1713062
3. ÇOLAK BERKER,BELEN MEHMET ALİ,ANKA FERZAT,MAHOUTİ PEYMAN,TARİ İLGİN ÖZLEM,AKGÖL OĞUZHAN (2026). A Microstrip Monopole Antenna Design for 5G Sub-6 GHz Applications Using Deep Learning. IET Communications, 20. SCI-Expanded · Uluslararası · DOI: 10.1049/cmu2.70127
4. ÇEVİK TANER,ÇEVİK NAZİFE,PAŞAOĞLU ALİ,ŞAHİN FATİH,ANKA FERZAT,AĞ MUHAMMET SAİT (2026). AGFP: A Deep Attention-Guided Framework for DWT-Based Image Steganography. IET Image Processing, 20. SCI-Expanded · Uluslararası · DOI: 10.1049/ipr2.70288
5. ŞAHİN MUHAMMED FARUK,ANKA FERZAT (2026). An Adaptive Hybrid Metaheuristic Algorithm for Lung Cancer in Pathological Image Segmentation. Diagnostics, 16. SCI-Expanded · Uluslararası · DOI: 10.3390/diagnostics16010084
6. ŞAHİN MUHAMMED FARUK,ANKA FERZAT (2026). An adaptive hybrid metaheuristic algorithm for satellite images in remote sensing image segmentation. The Visual Computer, 42. SCI-Expanded · Uluslararası · DOI: 10.1007/s00371-025-04341-6
7. ŞAHİN MUHAMMED FARUK,ANKA FERZAT (2026). An Adaptive Hybrid SCSOWOA Algorithm for Generalized Multi-Level Thresholding in Multi-Organ Medical Image Segmentation. Journal of Bionic Engineering. SCI-Expanded · Uluslararası · DOI: 10.1007/s42235-025-00832-3
8. NEMATZADEH MIANDOAB SAJJAD,ANKA FERZAT,ÇİFTÇİ FATİH,ÖZARSLAN ALİ CAN,Oncu Emir (2026). Bridging engineering and neuro-oncology: a scalable FastAPI-deployed CNN framework for real-time explainable brain tumor diagnosis. Frontiers in Neuroscience, 20. SCI-Expanded · Uluslararası · DOI: 10.3389/fnins.2026.1772429
9. Manickam S,Vijayaragavan Mathanraj,Gurusamy Manikandaraja,JOSEPH SHOBANA BAI FEMILDA JOSEPHIN,VARUVEL EDWIN GEO,Matijošius Jonas,ANKA FERZAT,Kilikevičius Artūras,Kale Utku (2026). Comprehensive analysis of CI engine attributes fuelled with oil mill waste oil-camphor oil blend with hydrogen enrichment—RSM approach. Energy Reports, 16. SCI-Expanded · Uluslararası · DOI: 10.1016/j.egy.2026.109470
10. RA Jasmine RA,Godwin D Jesu,VARUVEL EDWIN GEO,JOSEPH SHOBANA BAI FEMILDA JOSEPHIN,ANKA FERZAT,Matijošius Jonas,Žvirblis Tadas,Kilikevičius Artūras (2026). Data-driven virtual engine framework for

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11. ANKA FERZAT, Soleimanian Gharehchopogh Farhad, Mousavirad Seyed Jalaeddin, Tejani Ghanshyam G (2026). Discrete Puma Optimizer to Solve Combinatorial Optimization Problems. *International Journal of Computational Intelligence Systems*.
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 12. ŞAHİN MUHAMMED FARUK, ANKA FERZAT (2026). Joint optimization of band fusion and multi-level thresholding via a hybrid metaheuristic framework: Genetic-Cauchy and Runge-Kutta-driven Adaptive Intensive Mutation (GC-RUNIM). *Information Sciences*, 759.
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 15. LANJANIAN HOSSEIN, OLGUN ABDULLAH, NEMATZADEH MIANDOAB SAJJAD, TORKAMANIAN AFSHAR MAHSA, ANKA FERZAT (2026). Molecular Dynamics Simulations Reveal Heavy Water-Induced Structural Changes in Subunit c of ATP Synthase and Formation of Aligned Clusters. *Current Medicinal Chemistry*.
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 17. Manickam S, Subramaniyan M, Gurusamy Manikandaraja, Arulraj Vinoth, JOSEPH SHOBANA BAI FEMILDA JOSEPHIN, ANKA FERZAT, VARUVEL EDWIN GEO (2026). Multi-objective sustainable energy assessment of a hydrogen-assisted PCCI engine fuelled with *Milletia Pinnata* oil–camphor oil blend. *Biomass and Bioenergy*, 214.
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 19. Sonthalia Ankit, Renjith E. Jeslin, JOSEPH SHOBANA BAI FEMILDA JOSEPHIN, VARUVEL EDWIN GEO, ANKA FERZAT, Kilikevičius Artūras, Piksrys Armantas (2026). Predictive analytics for hydrogen–honge oil dual fuel engine using machine learning. *International Journal of Hydrogen Energy*, 218.
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 21. ARASTEH ABBASABAD BAHMAN, Sefati Seyed Salar, EMELYANOV EDUARD, İNCE İBRAHİM FURKAN, ANKA FERZAT (2025). A Bedbug Optimization-Based Machine Learning Framework for Software Fault Prediction. *Mathematics*, 13.
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34. LANJANIAN HOSSEIN,Abharian Peyman Hassani,ANKA FATEME AYŞİN,NEMATZADEH MIANDOAB SAJJAD,TORKAMANIAN AFSHAR MAHSA,ANKA FERZAT (2025). Analyzing EEG Data During Opium Addiction Treatment Using a Fuzzy Logic-Based Machine Learning Model. Frontiers in Psychiatry. SCI-Expanded · Uluslararası · DOI: 10.3389/fpsy.2025.1635933
35. Babaei Ardavan,TIRKOLAE ERFAN BABAE,Simic Vladimir,Golpîra Hêriş,ANKA FERZAT (2025). Assessing the Impacts of Blockchain Technology on Supply Chain Efficiency: A Data-Driven Integrated Decision-Making Framework. Group Decision and Negotiation. SCI · Uluslararası · DOI: 10.1007/s10726-025-09934-z
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38. ARASTEH ABBASABAD BAHMAN,Sefati Seyed Salar,KUSETOĞULLARI HÜSEYİN,ANKA FERZAT (2025). Generating Software Architectural Model from Source Code Using Module Clustering. Symmetry, 17. SCI-Expanded · Uluslararası · DOI: 10.3390/sym17091523
39. ANKA FERZAT (2025). Hybrid whale and artificial rabbit optimization for efficient multi-objective sensor deployment in complex IoT networks. journal of umm al-qura university for engineering and architecture. Scopus · Uluslararası · DOI: 10.1007/s43995-025-00160-x
40. Mickevičius Tomas,Matijošius Jonas,VARUVEL EDWIN GEO,JOSEPH SHOBANA BAI FEMILDA JOSEPHIN,Stanley Jerome,Žvirblis Tadas,ANKA FERZAT,Kiliukevičius Artūras (2025). Machine Learning Approaches for Predicting Diesel Engine Emissions Using Waste Tire Pyrolysis Oil– Hydrotreated Vegetable Oil Blends. Process Safety and Environmental Protection. SCI-Expanded · Uluslararası · DOI: 10.1016/j.psep.2025.108049

41. ŞAHİN MUHAMMED FARUK,ANKA FERZAT (2025). Metaheuristics role in image processing and computer vision applications: a comprehensive review. Cluster Computing, 28.
SCI-Expanded · Uluslararası · DOI: 10.1007/s10586-025-05610-8
42. ANKA FERZAT,Rad Hamid (2025). RG-ACA: efficient and adaptive routing method for internet of things based on metaheuristic approach. International Journal of Information Technology.
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43. JOSEPH SHOBANA BAI FEMILDA JOSEPHIN,Subramanian Balaji,Renjit E.Jeslin,Venkatesh Naveen,Sugumaran V.,Subramanian Thiyagarajan,ANKA FERZAT,VARUVEL EDWIN GEO,Matijošius Jonas,Kilikevičius Artūras (2025). Tree-Based Ensemble Regression Models for Emission Prediction of a Winter Green Oil-Hydrogen Dual-Fuel Engine with Zeolite After-Treatment. Renewable Energy.
SCI-Expanded · Uluslararası · DOI: 10.1016/j.renene.2025.124726
44. ŞAHİN MUHAMMED FARUK,YEGANLİ SEYEDEH FAEGHEH,ULUDAĞ GÖNÜL,YEGANLİ FAEZEH,ANKA FERZAT (2025). Unified Deep Learning Method for Accurate Brain Tumor Segmentation Using Vertical Voxel Grouping and Wavelet Features. Signal, Image and Video Processing, 19.
SCI-Expanded · Uluslararası · DOI: 10.1007/s11760-025-04557-y
45. ARASTEH ABBASABAD BAHMAN, ARASTEH ABBASABAD KEYVAN, ANKA FERZAT, Sefati Seyed Salar, Fratu Octavian, Halunga Simona, TIRKOLAE ERFAN BABAEE (2024). A Bioinspired Test Generation Method Using Discretized and Modified Bat Optimization Algorithm. Mathematics.
SCI-Expanded · Uluslararası · DOI: 10.3390/math12020186
46. Yousefzadeh Hamid R,TIRKOLAE ERFAN BABAEE,ANKA FERZAT (2024). A Novel Solution Approach Based on Dominance Evaluation Measure for Project Scheduling in Multi-Project Environments. Systems, 12(11).
SCI-Expanded · Uluslararası · DOI: 10.3390/systems12110476
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SCI-Expanded · Uluslararası · DOI: 10.1007/s00521-024-09429-z
49. Babaei Ardavan,TIRKOLAE ERFAN BABAEE,ANKA FERZAT (2024). Efficiency-sustainability models to assess blockchain adoption strategies with uncertainty in the oil and gas sector. Environment, Development and Sustainability.
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50. ZONTUL METİN,ERSAN ZİYA GÖKALP,YELMEN İLKAY,ÇEVİK TANER,ANKA FERZAT,Gesoglu Kevser (2024). Enhancing GPS Accuracy with Machine Learning: A Comparative Analysis of Algorithms. Traitement du Signal, 41.
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51. ARASTEH ABBASABAD BAHMAN,Golshan Sahar,SHAMI Shiva,ANKA FERZAT (2024). Sahand: A Software Fault-Prediction Method Using Autoencoder Neural Network and K-Means Algorithm. JOURNAL OF ELECTRONIC TESTING-THEORY AND APPLICATIONS, 1-15.
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52. ARASTEH ABBASABAD BAHMAN, Sadegi Razieh, ARASTEH ABBASABAD KEYVAN, GÜNEŞ PERİ, ANKA FERZAT, TORKAMANIAN AFSHAR MAHSA (2023). A bioinspired discrete heuristic algorithm to generate the effective structural model of a program source code. Journal of King Saud University - Computer and Information Sciences, 35(8), 1-17.
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53. ANKA FERZAT, SARAÇ ÖMER FARUK (2023). A novel intelligent traffic recovery model for emergency vehicles based on context-aware reinforcement learning. Information Sciences, 619, 288-309.
SCI-Expanded · Uluslararası · DOI: 10.1016/j.ins.2022.11.057
54. ARASTEH ABBASABAD BAHMAN, Gharehchopogh Farhad, GÜNEŞ PERİ, ANKA FERZAT, TORKAMANIAN AFSHAR MAHSA (2023). A Novel Metaheuristic Based Method for Software Mutation Test Using the Discretized and Modified Forrester Optimization Algorithm. JOURNAL OF ELECTRONIC TESTING-THEORY AND APPLICATIONS, 1-24.
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55. ALLAHVIRANLOU TOFIGH, Jafarian Ali, Saneifard R., Ghalami N, Measoomy Nia S, ANKA FERZAT, Fernandez-Gamiz Unai, Noeiaghdam Samad (2023). An application of artificial neural networks for solving fractional higher-order linear integro-differential equations. Boundary Value Problems, 74, 1-14.
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58. SEYYEDABBASI AMIR, ANKA FERZAT, ALLAHVIRANLOU TOFIGH, Fernandez-Gamiz Unai, Noeiaghdam Samad (2023). Optimal data transmission and pathfinding for WSN and decentralized IoT systems using I-GWO and Ex-GWO algorithms. *Alexandria Engineering Journal*, 339-357.
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Özel Kuruluşlar · Yürütücü · Tamamlandı · 21.11.2022 – 01.06.2023
2. Kablosuz Algılayıcı Ağlar için Güvenilir ve Enerji Verimli Bir Yönlendirme Protokolünün Tasarlanması
TÜBİTAK PROJESİ · Yürütücü · Beklemede · 15.12.2020
3. YENİLİKÇİ VE YARATICI İSTANBUL MALİ DESTEK PROGRAMI Referans Numarası: TR10/18/YMP/0096
Kalkınma Bakanlığı · Araştırmacı · Beklemede · 30.08.2019
4. Çok Kanallı İletişim Platformu
Diğer kamu kuruluşları (Yükseköğretim Kurumları hariç) · Proje İzleyiciliği · Tamamlandı · 08.08.2017 – 07.08.2018

5. **Designing new low power sensor devices and dynamic framework for using in the smart self managing systems**
Diğer (Uluslararası) · Yürütücü · Tamamlandı · 01.11.2017 – 01.11.2018
6. **İstanbul Bölgesi Bilgisayar, Yazılım ve Video Oyun Sektörünün Bugünü ve Geleceği (proje ref.: TR10/16/DFD/0002)**
Kalkınma Bakanlığı · Araştırmacı · Tamamlandı · 01.02.2017 – 30.05.2017
7. **İZÜ Akıllı Tarla Sistemi Tasarımı için Öz Yönetimli Yönlendirme Protokolü Geliştirme**
Yükseköğretim Kurumları tarafından destekli bilimsel araştırma projesi · Yürütücü · Tamamlandı · 01.09.2017 – 01.04.2018
8. **Görme Engellilere masaüstü ve mobil tabanlı oyun geliştirme**
Diğer (Uluslararası) · Araştırmacı · Tamamlandı · 01.04.2016 – 01.01.2017
9. **Intelligent Hedge Software System Implementation**
Özel Kuruluşlar · Araştırmacı · Tamamlandı · 02.04.2015 – 01.03.2016
10. **A Research on Applications of Wireless Sensor Networks in Industrail Applications**
Diğer (Uluslararası) · Araştırmacı · Tamamlandı · 01.08.2014 – 01.05.2015
11. **Help Maker Definer Autonomous Robot**
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TEZ DANIŞMANLIKLARI (11)

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6. **ENVER EKREM UÇAR (2021). Malign Melanom ve Nevus'un makine öğrenimi ve derin öğrenme yöntemleri ile sınıflandırılması.**
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11. **ALEX GUNAGWERA (2017). Akıllı bina: Bina içi ve akıllı yol bulma.**
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ÖDÜLLER (13)

1. **World's Most Influential Scientists (top 2%) (2025)**
Bilim - Sanat Ödülleri · Stanford University · AMERİKA BİRLEŞİK DEVLETLERİ
2. **World's Most Influential Scientists (top 2%) (2024)**
Bilim - Sanat Ödülleri · Stanford University · AMERİKA BİRLEŞİK DEVLETLERİ
3. **World's Most Influential Scientists (top 2%) (2023)**

Bilim - Sanat Ödülleri · Stanford University · AMERİKA BİRLEŞİK DEVLETLERİ

4. **Top-Cited Scientists (2023)**
Diğer · DİĞER (KURUMLAR, HASTANELER VB.) · AMERİKA BİRLEŞİK DEVLETLERİ
5. **Scientific Research Honor Society (2023)**
Çalışma Ödülü · Sigma Xi · AMERİKA BİRLEŞİK DEVLETLERİ
6. **Reviewer Reward (2022)**
Bilim - Sanat Ödülleri · Elsevier · AMERİKA BİRLEŞİK DEVLETLERİ
7. **World's Most Influential Scientists (top 2%)-Stanford University (2022)**
Bilim - Sanat Ödülleri · İSTİNYE ÜNİVERSİTESİ · AMERİKA BİRLEŞİK DEVLETLERİ
8. **Araştırma, Yayın ve Atıf (2021)**
Yayın Teşvik Ödülü · İSTANBUL AREL ÜNİVERSİTESİ · TÜRKİYE
9. **Reviewer Award (2021)**
Bilim - Sanat Ödülleri · ELSEVIER · ALMANYA
10. **Reviewer Award (2020)**
Bilim - Sanat Ödülleri · ELSEVIER · HOLLANDA
11. **Reviewer Award (2019)**
Bilim - Sanat Ödülleri · OLD CITY PUBLISHING INC · AMERİKA BİRLEŞİK DEVLETLERİ
12. **Başarılı Akademisyen Mükemmeliyet Kategorisi (2017)**
Teşvik Ödülleri · İSTANBUL SABAHATTİN ZAİM ÜNİVERSİTESİ · TÜRKİYE
13. **En iyi Tez Ödülü (2009)**
Çalışma Ödülü · Islamic Azad University · İRAN

EDİTÖRLÜKLER (1)

1. **Memory- and Latency-Constrained Inference of Large Language Models Via Adaptive Split Computing (2025)**
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