

Asst. Prof. FEYZA YILDIRIM OKAY

Personal Information

Email: feyzaokay@gazi.edu.tr
Web: <https://avesis.gazi.edu.tr/feyzaokay>

International Researcher IDs

ORCID: 0000-0002-6239-3722
ScopusID: 55568614900
Yoksis Researcher ID: 166528

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2013 - 2019
Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2011 - 2013
Postgraduate, Tobb University Of Economics And Technology, Institute Of Science, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2010 - 2011
Undergraduate, Cankaya University, Faculty Of Economics And Administrative Sciences, Department Of Business, Turkey 2008 - 2010
Undergraduate, Cankaya University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2005 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Nesnelerin İnterneti için Sis Hesaplama Tabanlı Veri Kümeleme ve Yönlendirme Modelleri, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2019
Postgraduate, Kablosuz algılayıcı ağlarda çok amaçlı evrimsel algoritmalar ile etkin güvenli kapsama kontrolü, Gazi University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2013

Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2010 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Road to efficiency: Mobility-driven joint task offloading and resource utilization protocol for connected vehicle networks**
Akyıldız O., Yıldırım Okay F., Kök I., Özdemir S.
FUTURE GENERATION COMPUTER SYSTEMS, vol.156, pp.157-167, 2024 (SCI-Expanded)
- II. **Unveiling anomalies: a survey on XAI-based anomaly detection for IoT**
Eren E., YILDIRIM OKAY F., ÖZDEMİR S.

- Turkish Journal of Electrical Engineering and Computer Sciences, vol.32, no.3, pp.358-381, 2024 (SCI-Expanded)
- III. Explainable Artificial Intelligence (XAI) for Internet of Things: A Survey
Kok I., Okay F., Muyanlı O., ÖZDEMİR S.
IEEE Internet of Things Journal, vol.10, no.16, pp.14764-14779, 2023 (SCI-Expanded)
- IV. A P4-assisted task offloading scheme for Fog networks: An intelligent transportation system scenario
Akyıldız O., Kök I., Okay F., Özdemir S.
Internet of Things (Netherlands), vol.22, 2023 (SCI-Expanded)
- V. FogAI: An AI-supported fog controller for Next Generation IoT
KÖK İ., YILDIRIM OKAY F., ÖZDEMİR S.
INTERNET OF THINGS, vol.19, 2022 (SCI-Expanded)
- VI. Priority Enabled Content Based Forwarding in Fog Computing via SDN
İNAG Y., GÜZEL M., YILDIRIM OKAY F., DEMİRCİ M., ÖZDEMİR S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, pp.1-21, 2022 (SCI-Expanded)
- VII. Big data analytics for default prediction using graph theory
Yildirim M., Okay F., Ozdemir S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.176, 2021 (SCI-Expanded)
- VIII. A deep learning-based CEP rule extraction framework for IoT data
Şimşek M. U., Yıldırım Okay F., Ozdemir S.
JOURNAL OF SUPERCOMPUTING, vol.77, no.8, pp.8563-8592, 2021 (SCI-Expanded)
- IX. Fog computing-based privacy preserving data aggregation protocols
YILDIRIM OKAY F., Ozdemir S., Xiao Y.
TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, vol.31, no.4, 2020 (SCI-Expanded)
- X. Routing in Fog-Enabled IoT Platforms: A Survey and an SDN-Based Solution
YILDIRIM OKAY F., Ozdemir S.
IEEE INTERNET OF THINGS JOURNAL, vol.5, no.6, pp.4871-4889, 2018 (SCI-Expanded)
- XI. IMPROVING COVERAGE IN WIRELESS SENSOR NETWORKS USING MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS
YILDIRIM OKAY F., Ozdemir S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.2, pp.143-153, 2015 (SCI-Expanded)
- XII. MEDIUM ACCESS CONTROL PROTOCOLS IN WIRELESS SENSOR NETWORKS
YILDIRIM OKAY F., Ozdemir S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.1, pp.49-59, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. IoT-Based Energy Consumption Prediction Using Transformers
Alioghli A. A., Yıldırım Okay F.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.11, no.2, pp.304-323, 2024 (Peer-Reviewed Journal)
- II. TPS3: A privacy preserving data collection protocol for smart grids
ŞİMŞEK M. B., YILDIRIM OKAY F., Mert D., Ozdemir S.
INFORMATION SECURITY JOURNAL, vol.27, no.2, pp.102-118, 2018 (ESCI)

Books & Book Chapters

- I. Yorumlanabilir Makine Öğrenmesi

YILDIRIM OKAY F., YILDIRIM M.

in: Yorumlanabilir ve Açıklanabilir Yapay Zeka ve Güncel Konular, Şeref Sağıroğlu, Mustafa Umut Demirezen, Editor, Nobel Akademik Yayıncılık, Ankara, pp.1-41, 2022

II. Fog Computing Based Complex Event Processing for Internet of Things

Yildirim Okay F., Kök I., Güzel M., Özdemir S.

in: BIG DATA-ENABLED INTERNET OF THINGS, Muhammad Usman Shahid Khan, Samee U. Khan, Albert Y. Zomaya, Editor, IET - Institution of Engineering and Technology, North Dakota, pp.68-80, 2019

Refereed Congress / Symposium Publications in Proceedings

I. Improved Chain-based Multi-Output Classification for Packaging Planning

Yıldız S. N., Yıldırım Okay F., Islamov A., Özdemir S.

14th International Conference on Emerging Ubiquitous Systems and Pervasive Networks / 13th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare, EUSPN/ICTH 2023, Almaty, Kazakhstan, 7 - 09 November 2023, vol.231, pp.697-702

II. Malicious Firmware Detection on Embedded Systems Using Deep Learning

Yapıcıoğlu C., YILDIRIM OKAY F., DEMİRCİ M.

2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023

III. Anomaly Detection in Financial Data using Deep Learning: A Comparative Analysis

Yıldız K., Dedebeck S., YILDIRIM OKAY F., Şimşek M. U.

Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı (ASYU 2022), Antalya, Turkey, 07 September 2022

IV. QNSGA-II: A Quantum Computing-Inspired Approach to Multi-Objective Optimization

GÜZEL M., YILDIRIM OKAY F., KÖK İ., ÖZDEMİR S.

2022 International Symposium on Networks, Computers and Communications (ISNCC), Shenzhen, China, 19 July 2022

V. Interpretable Machine Learning: A Case Study of Healthcare

YILDIRIM OKAY F., YILDIRIM M., ÖZDEMİR S.

2021 International Symposium on Networks, Computers and Communications (ISNCC), Dubai, United Arab Emirates, 31 October 2021

VI. Real-time Aircraft Tracking System: A Survey and A Deep Learning Based Model

Çakıcı M. E., YILDIRIM OKAY F., ÖZDEMİR S.

2021 International Symposium on Networks, Computers and Communications (ISNCC), Dubai, United Arab Emirates, 31 October 2021

VII. Sentiment Analysis for Turkish Unstructured Data by Machine Translation

YILDIRIM M., YILDIRIM OKAY F., ÖZDEMİR S.

2020 IEEE International Conference on Big Data (Big Data), Atlanta, GA, United States Of America, 11 December 2020

VIII. SDN-Based Data Forwarding in Fog-Enabled Smart Grids

YILDIRIM OKAY F., ÖZDEMİR S., DEMİRCİ M.

IEEE GPECOM 2019, 12 - 15 June 2019

IX. Efficient and Secure Coverage Control in Internet of Things

YILDIRIM OKAY F., Ozdemir S.

3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.90-95

X. A Secure Data Aggregation Protocol for Fog Computing Based Smart Grids

YILDIRIM OKAY F., Ozdemir S.

12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG), Doha, Qatar, 10 - 12 April 2018

XI. Comparative Analysis of IoT Communication Protocols

- Corak B. H., YILDIRIM OKAY F., GÜZEL M., Murt S., Ozdemir S.
International Symposium on Networks, Computers and Communications (ISNCC), Rome, Italy, 19 - 21 June 2018
- XII. **A Fog Computing Based Smart Grid Model**
YILDIRIM OKAY F., Ozdemir S.
International Symposium on Networks, Computers and Communications (ISNCC), Hammamet, Tunisia, 11 - 13 May 2016
- XIII. **Dimensionality reduction with PCA in block based DCT domain**
GÜZEL TURHAN C., YILDIRIM OKAY F., YILDIZ O., BİLGE H. Ş.
International Conference on Advanced Technology & Sciences (ICAT'14), Antalya, Turkey, 12 - 15 August 2014, pp.216-220
- XIV. **Kablosuz Algılayıcı Ağlarda Güvenli Yönlendirme Protokollerini Üzerine Bir İnceleme**
Yıldırım Okay F., Özdemir S., Sağıroğlu Ş.
7th International Conference on Information Security and Cryptology, İstanbul, Turkey, 14 - 16 January 2014
- XV. **Multi objective evolutionary algorithm based on decomposition for efficient coverage control in mobile sensor networks**
Ali Attea B., Yıldırım Okay F., Özdemir S., Akcayol M. A.
2012 6th International Conference on Application of Information and Communication Technologies (AICT), Tbilisi, Georgia, 17 - 19 October 2012
- XVI. **Kablosuz Algılayıcı Ağlarda Güvenli Ortam Erişim Protokollerini**
Yıldırım Okay F., Özdemir S.
International Conference on Information Security & Cryptology (ISCTURKEY), Ankara, Turkey, 5 - 08 June 2012, pp.1-7

Supported Projects

Özdemir S., Demirci M., Yıldırım Okay F., TUBITAK Project, Nesnelerin interneti için sis hesaplama temelli karmaşık olay işleme ve değerli içerik çıkarımı, 2018 - 2021

Metrics

Publication: 32
Citation (WoS): 139
Citation (Scopus): 385
H-Index (WoS): 4
H-Index (Scopus): 7