

Asst. Prof. Durmuş Özkan Şahin

Personal Information

Office Phone: [+90 362 312 1919](tel:+903623121919) Extension: 1564

Email: durmus.sahin@omu.edu.tr

Web: <https://avesis.omu.edu.tr/durmus.sahin>

International Researcher IDs

ScholarID: NNYRD8YAAAAJ

ORCID: 0000-0002-0831-7825

Publons / Web Of Science ResearcherID: AAJ-7961-2020

ScopusID: 56589621700

Yoksis Researcher ID: 216220

Education Information

Doctorate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Hesaplamalı Bilimler (Dr), Turkey 2016 - 2022

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2013 - 2016

Undergraduate, Suleyman Demirel University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2008 - 2013

Dissertations

Doctorate, Android cihazlarda makine öğrenmesi algoritmaları kullanılarak kötüçül yazılım tespiti, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Hesaplamalı Bilimler (Dr), 2022

Postgraduate, Metin sınıflandırmada öznelik seçimi üzerine bir çalışma, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2016

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2022 - Continues

Research Assistant, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Bilgisayar Mühendisliği Anabilim Dalı, 2014 - 2022

Courses

Programlama Dilleri, Undergraduate, 2022 - 2023

Veri Yapıları, Undergraduate, 2022 - 2023

Yazılım Mühendisliği, Undergraduate, 2022 - 2023

Girişimcilik ve Yenilikçilik, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel permission-based Android malware detection system using feature selection based on linear regression**
Şahin D. Ö., Kural O. E., Akleyek S., Kılıç E.
NEURAL COMPUTING & APPLICATIONS, vol.35, no.7, pp.4903-4918, 2023 (SCI-Expanded)
- II. **A novel Android malware detection system: adaption of filter-based feature selection methods**
Şahin D. Ö., Kural O. E., Akleyek S., Kılıç E.
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, vol.14, pp.1243-1257, 2023 (SCI-Expanded)
- III. **Low-Resource Neural Machine Translation: A Systematic Literature Review**
Yazar B. K., Şahin D. Ö., Kılıç E.
IEEE ACCESS, vol.11, pp.131775-131813, 2023 (SCI-Expanded)
- IV. **LinRegDroid: Detection of Android Malware Using Multiple Linear Regression Models-Based Classifiers**
Şahin D. Ö., Akleyek S., Kılıç E.
IEEE ACCESS, vol.10, pp.14246-14259, 2022 (SCI-Expanded)
- V. **Permission-based Android malware analysis by using dimension reduction with PCA and LDA**
Şahin D. Ö., Kural O. E., Akleyek S., Kılıç E.
JOURNAL OF INFORMATION SECURITY AND APPLICATIONS, vol.63, 2021 (SCI-Expanded)
- VI. **Two new feature selection metrics for text classification**
Şahin D. Ö., Kılıç E.
AUTOMATIKA, vol.60, no.2, pp.162-171, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Görüntü İşleme Tekniklerini Kullanarak Mobil Uygulama Tabanlı Optik Okuyucu Sisteminin Geliştirilmesi**
Turhan S., Bozkurt M., ŞAHİN D. Ö.
Karamanoğlu Mehmetbey Üniversitesi Mühendislik ve Doğa Bilimleri Dergisi, vol.5, no.2, pp.169-190, 2023 (Peer-Reviewed Journal)
- II. **On the Effect of k Values and Distance Metrics in KNN Algorithm for Android Malware Detection**
ŞAHİN D. Ö., AKLEYEK S., KILIÇ E.
Advances in Data Science and Adaptive Analysis, 2021 (ESCI)
- III. **Detection of Turkish Spam Emails with Machine Learning Algorithms Using Different Feature Selection Methods**
ERYILMAZ E. E., ŞAHİN D. Ö., KILIÇ E.
Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.13, no.2, pp.57-77, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Implementation of Different Machine Learning Projects Using Scikit-learn and Tensorflow Frameworks**
ŞAHİN D. Ö.
in: Methodologies, Frameworks, and Applications of Machine Learning, Srivastava Pramod Kumar, Yadav Ashok Kumar, Editor, IGI Global, pp.19-51, 2024
- II. **On the Android Malware Detection System Based on Deep Learning**
ŞAHİN D. Ö., YAZAR B. K., AKLEYEK S., KILIÇ E., Giri D.
in: Smart Applications with Advanced Machine Learning and Human-Centred Problem Design, D. Jude Hemanth ,

Utku Kose , Junzo Watada , Bogdan Patrut, Editor, Springer Cham, pp.453-466, 2023

- III. **An Extensive Text Mining Study for the Turkish Language: Author Recognition, Sentiment Analysis, and Text Classification**
ŞAHİN D. Ö., KILIÇ E.
in: Research Anthology on Implementing Sentiment Analysis Across Multiple Disciplines, Information Resources Management Association, Editor, IGI Global, pp.690-724, 2022
- IV. **Android-Based Skin Cancer Recognition System Using Convolutional Neural Network**
DEMİRCİ S., ŞAHİN D. Ö., İbrahim Halil T.
in: Diagnostic Applications of Health Intelligence and Surveillance Systems, Divakar Yadav, Abhay Bansal, Madhulika Bhatia, Madhurima Hooda, Jorge Morato, Editor, IGI Global, pp.59-85, 2021
- V. **An Extensive Text Mining Study for the Turkish Language: Author Recognition, Sentiment Analysis, and Text Classification**
ŞAHİN D. Ö., KILIÇ E.
in: Natural Language Processing for Global and Local Business, Fatih Pınarbaşı, M. Nurdan Taşkiran, Editor, IGI Global, pp.272-306, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **A Survey of Machine Learning and Deep Learning Techniques Used in Gold Price Prediction**
SEZGİN M., ŞAHİN D. Ö.
Karaelmas International Science and Engineering Symposium (KISES 2024), Zonguldak, Turkey, 10 May 2024, pp.48-49
- II. **EMG Verilerinin Sınıflandırılmasında PCA Boyut İndirgeme Tekniğinin Etkisinin İncelenmesi / Investigating the Effect of PCA Dimension Reduction Technique in Classifying EMG Data**
KONUK M. E., ŞAHİN D. Ö., KILIÇ E.
2024 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), İstanbul, Turkey, 23 May 2024, pp.1-6
- III. **Filtering Turkish Spam Using LSTM from Deep Learning Techniques**
Eryılmaz E. E., Şahin D. Ö., Kılıç E.
8th International Symposium on Digital Forensics and Security, ISDFS 2020, Beirut, Lebanon, 1 - 02 June 2020
- IV. **Machine Learning Based Spam E-mail Detection System for Turkish**
Eryılmaz E. E., Şahin D. Ö., Kılıç E.
5th International Conference on Computer Science and Engineering (UBMK), Diyarbakır, Turkey, 9 - 11 September 2020, pp.7-12
- V. **Spam Filtering with KNN: Investigation of the Effect of k Value on Classification Performance**
Şahin D. Ö., Demirci S.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020
- VI. **Comparison of Regression Methods in Permission Based Android Malware Detection**
Şahin D. Ö., Kural O. E., Akleyek S., Kılıç E.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020
- VII. **Permission Weighting Approaches in Permission Based Android Malware Detection**
Kural O. E., Şahin D. Ö., Akleyek S., Kılıç E.
4th International Conference on Computer Science and Engineering (UBMK), Samsun, Turkey, 11 - 15 September 2019, pp.134-139
- VIII. **A SURVEY ON DIGITAL RIGHTS MANAGEMENT**
AKLEYEK S., SOYSALDI M., KARHAN Z., ŞAHİN D. Ö.
4th International Conference on Engineering and Natural Sciences (ICENS 2018), Kiev, Ukraine, 2 - 06 May 2018, pp.260

- IX. MOVIE RECOMMENDATION SYSTEM USING DISTRIBUTED MACHINE LEARNING**
KARHAN Z., SOYSALDI M., ŞAHİN D. Ö., KILIÇ E.
4th International Conference on Engineering and Natural Sciences (ICENS 2018), Kiev, Ukraine, 2 - 06 May 2018, pp.261
- X. Dağıtık Makine Öğrenmesi Kullanarak Film Öneri Sistemi**
KARHAN Z., SOYSALDI M., ŞAHİN D. Ö., KILIÇ E.
International Conference On Engineering And Natural Sciences (ICENS), Kİev, Ukraine, 2 - 06 May 2018
- XI. Work Accident Analysis with Machine Learning Techniques**
Şahin D. Ö., Sirin B., Akleyek S., Kılıç E.
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.215-219
- XII. New Results on Permission Based Static Analysis for Android Malware**
Şahin D. Ö., Kural O. E., Akleyek S., Kılıç E.
6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Turkey, 22 - 25 March 2018, pp.340-343
- XIII. A Text Classification Application: Poet Detection from Poetry**
ŞAHİN D. Ö., KURAL O. E., KILIÇ E., KARABİNA A.
International Conference on Engineering Technologies (ICENTE17), Konya, Turkey, 7 - 09 December 2017, pp.228-230
- XIV. COMPARISON OF STATISTICAL NORMALIZATION TECHNIQUES ON SPEAKERS HEIGHT ESTIMATION**
KARABİNA A., ŞAHİN D. Ö., KURAL O. E., KILIÇ E.
Computational and Statistical Methods in Applied Sciences (COSTAS 2017), Samsun, Turkey, 9 November - 11 December 2017, pp.201-202
- XV. COMPARISON OF REGRESSION METHODS ON SPEAKERS HEIGHT ESTIMATION**
KARABİNA A., KURAL O. E., ŞAHİN D. Ö., KILIÇ E.
Computational and Statistical Methods in Applied Sciences (COSTAS 2017), Samsun, Turkey, 7 November - 09 December 2017, pp.204-205
- XVI. Brain Tumor Detection Based on Image Processing and Statistics**
KARHAN Z., ŞAHİN D. Ö., KILIÇ E.
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.981
- XVII. Strassen-like 2x2 Matrix Squaring Revisited**
AKLEYEK S., ŞAHİN D. Ö., KURAL O. E.
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.421
- XVIII. Modified Arithmetic Circuits for Galois Rings**
KURAL O. E., ŞAHİN D. Ö., AKLEYEK S., ALKİM E.
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.327
- XIX. Comparison of Classification Algorithms Used Medical Documents Categorization**
ŞAHİN D. Ö., KILIÇ E.
Uluslararası Bilgisayar Mühendisliği Konferansı (UBMK), Tekirdağ, Turkey, 20 - 23 October 2016, pp.210-213
- XX. Feature Selection in Text Classification**
Şahin D. Ö., Ateş N., Kılıç E.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1777-1780
- XXI. Two New Feature Extraction Methods for Text Classification: TESDF and SADF**
Kılıç E., Ateş N., Karakaya A., Şahin D. Ö.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.475-478

Supported Projects

Kılıç E., Akleyek S., Şahin D. Ö., Dursun A. F., Project Supported by Higher Education Institutions, Android Kötücül Yazılımların Tespit Edilmesini Sağlayan Mobil/Web Tabanlı Uygulamanın Geliştirilmesi, 2022 - 2022

Metrics

Publication: 35

Citation (WoS): 129

Citation (Scopus): 208

H-Index (WoS): 5

H-Index (Scopus): 7