SAVAŞ OKYAY
ASST. PROF.

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAS-9311-2021

ScopusID: 57188768421

Yoksis Researcher ID: 217739

Biography

SAVAS OKYAY was born in Eskisehir, Türkiye in 1989. He completed his computer engineering undergraduate education at Eskisehir Osmangazi University (ESOGU) in 2013. He had the highest grade point average in the department and was a high honor student. He received his M.Sc. degree in computer science from Anadolu University (AU) in 2016. He worked full-time for a private sector company as a system engineer for more than a year until 2014. He has been working at ESOGU since 2014 and completed his doctorate in Eskişehir Technical University (ESTU) in 2023. He received his Asst. Prof. title in December 2023. His research interests include recommender systems, machine learning, and parallel computing.

Education

Doctorate 2016 - 2023	Eskişehir Technical University, Institute Of Graduate Programs, Computer Engineering (PhD), Turkey
Postgraduate 2013 - 2016	Anadolu University, Institute Of Science, Computer Engineering (MSc), Turkey
Undergraduate 2008 - 2013	Eskisehir Osmangazi University, Faculty of Engineering and Architecture, Computer Engineering (BSc), Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Data Analysis in MR Images and Imputing Missing Data: An Application for Dementia Diseases, Eskişehir Technical University, Faculty of Engineering, Department of Computer Engineering, 2023

Postgraduate, The Use of Brain Imaging Techniques for Predicting Early Diagnosis of Alzheimer's Disease, Anadolu University, Institute of Science, Computer Engineering (MSc), 2016

Academic Titles / Tasks

Assistant Professor 2023 - Continues	Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ

Research Assistant 2014 - 2023	Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ

Awards

1. Okyay S., Best Paper Award, The 5Th International Conferenceon Advanced Technology Sciences, May 2017
2. Okyay S., Best Presenter Award, The 3Rd International Conference On Advanced Technology & Sciences, September 2016

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Dementia-related user-based collaborative filtering for imputing missing data and generating a reliability scale on clinical test scores**
   Okyay S., Adar N.
   PEERJ, vol.10, no.e13425, pp.1-19, 2022 (SCI-Expanded)
2. **Experimental interpretation of adequate weight-metric combination for dynamic user-based collaborative filtering**
   OKYAY S., AYGÜN S.
   PEERJ COMPUTER SCIENCE, vol.7, 2021 (SCI-Expanded)

Articles Published in Other Journals

1. **REVOLUTIONIZING COURSE SELECTION IN HIGHER EDUCATION: A HIDDEN MARKOV CHAIN-BASED RECOMMENDER SYSTEM**
   Şahin M. T., Ergün H. C., Çakır M., ADAR N., OKYAY S.
   CIT Review Journal, pp.31-36, 2024 (Peer-Reviewed Journal)
2. **A SMART DATA-DRIVEN DIAGNOSIS FRAMEWORK FOR LOWER BACK PAIN ANOMALY DETECTION**
   BOZKURT KESER S., OKYAY S., ADAR N.
   CIT Review Journal, pp.37-42, 2024 (Peer-Reviewed Journal)
3. **A Novel Article Recommendation System Empowered by the Hybrid Combinations of Content-Based State-of-the-Art Methods**
   KUŞ İ., BOZKURT KESER S., OKYAY S.
   International Journal of Applied Mathematics Electronics and Computers, vol.11, no.1, pp.1-12, 2023 (Peer-Reviewed Journal)
4. **Developing a forest fire prediction model based on deep learning and forecast a fire risk map of Turkey**
   Fidanboy M., Adar N., Okyay S.
   Ormancılık Araştırma Dergisi, vol.9, no.2, pp.206-218, 2022 (Peer-Reviewed Journal)
5. **Explication of the Remote Education Through Department Statistics: ESOGU-CENG Case Study**
   CEYHAN M., KARTAL Y., BOZKURT KESER S., OKYAY S., ADAR N.
   International Journal of Multidisciplinary Studies and Innovative Technologies, vol.6, no.1, pp.71-76, 2022 (Peer-Reviewed Journal)

6. ADOKEN: DEEP LEARNING BASED DECISION SUPPORT SOFTWARE FOR MRI
   Eren H. A., Okyay S., Adar N.
   Mühendislik Bilimleri ve Tasarım Dergisi, vol.9, no.2, pp.406-413, 2021 (Peer-Reviewed Journal)
7. The Development of a Novel Content-Based Academic Paper Recommendation System
   Öz V. K., Deniz E., Bozkurt Keser S., Kartal Y., Okyay S.
   Eskişehir Türk Dünyası Uygulama ve Araştırma Merkezi Bilişim Dergisi, vol.2, no.2, pp.6-11, 2021 (Peer-Reviewed Journal)
8. Filter Feature Selection Analysis to Determine the Characteristics of Dementia
   Okyay S., Adar N.
   Journal of Engineering and Architecture Faculty of Eskişehir Osmangazi University, vol.29, pp.20-27, 2021 (Peer-Reviewed Journal)
9. Hybrid Course Recommendation System Design for a Real-Time Student Automation Application
   Arık A., Okyay S., Adar N.
   European Journal of Science and Technology, vol.0, no.26, pp.85-90, 2021 (Peer-Reviewed Journal)
10. İçerik tabanlı bilimsel yayın öneri sisteminde benzerlik ölçümlerinin incelenmesi
    DENİZ E., ÖZ V. K., BOZKURT KESER S., OKYAY S., KARTAL Y.
    DÜMF Mühendislik Dergisi, vol.12, no.12, pp.221-228, 2021 (Peer-Reviewed Journal)
11. A Study of Static and Dynamic Significance Weighting Multipliers on the Pearson Correlation for Collaborative Filtering
    OKYAY S., AYGÜN S.
    European Journal of Science and Technology, pp.270-275, 2020 (Peer-Reviewed Journal)
12. Feature Selection from 3D Brain Model for Some Dementia Subtypes Using Genetic Algorithm
    OKYAY S., ADAR N., ÖZKAN K., Adapınar B.
    International Journal of Intelligent Systems and Applications in Engineering, pp.1-6, 2017 (Peer-Reviewed Journal)
13. Feature Selection on MR Images Using Genetic Algorithm with SVM and Naive Bayes Classifiers
    Adar N., Okyay S., Özkan K., Şaylısoy S., Özbabalık Adapınar B. D., Adapınar B.
    International Journal of Intelligent Systems and Applications in Engineering, vol.4, pp.170, 2016 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

1. The Prediction of Student Grades Using Collaborative Filtering in a Course Recommender System
   Ceyhan M., Okyay S., Kartal Y., Adar N.
   IEEE 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT2021), Ankara, Turkey, 21 October 2021, pp.177-181
2. A Significant Fallacy of Built-in Correlation Functions in Recommender Systems
   Okyay S., Aygün S.
   IEEE 3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA2021), Ankara, Turkey, 11 - 13 June 2021
3. Using Various Learning Algorithms in an Author Recognition Application
   OKYAY S., ALKILINÇ A.
   Euroasia Congress on Scientific Researches and Recent Trends-6, Baku, Azerbaijan, 18 - 20 May 2020, vol.2, pp.592-601
4. Extracting Text Classification Features with Parallel Design
   OKYAY S., ADAR N.
   4th International Zeugma Conference on Scientific Researches, Gaziantep, Turkey, 29 - 31 May 2020, pp.231-239
5. FS-DPMT (Data Preprocessing and Management Tool): A Simple Software to Manipulate Freesurfer Output Data
   OKYAY S., ADAR N., Kaya A.
   4th International Zeugma Conference on Scientific Researches, Gaziantep, Turkey, 29 - 31 May 2020, pp.240-248

6. **Parallel 3D Brain Modeling & Feature Fixtraction: ADNI Dataset Case Study**
   OKYAY S., ADAR N.
   14th International Conference on Advanced Trends in Radioelecrtronics, Telecommunications and Computer
   Engineering (TCSET), Lviv, Ukraine, 20 - 24 February 2018, pp.133-138
7. **Feature Selection from 3D Brain Model for Some Dementia Subtypes Using Genetic Algorithm**
   OKYAY S., ADAR N., ÖZKAN K., Adapınar B.
   The 5th International Conferenceon Advanced Technology Sciences (ICAT17), İstanbul, Turkey, 9 - 12 May 2017
8. **FEATURE SELECTION ON MR IMAGES USING GENETIC ALGORITHMWITH SVM AND NAIVE BAYES
   CLASSIFIERS**
   OKYAY S., ADAR N., ÖZKAN K., ŞAYLISOY S., ADAPINAR B. O., ADAPINAR B.
   3rd International Conference on Advanced Technology & Sciences, 1 - 03 September 2016
9. **Classification of Some Dementia Types Due to Feature Selection with Artificial Neural Networks**
   OKYAY S., ADAR N., ÖZKAN K., ŞAYLISOY S., Adapinar B. D. O., Adapinar B.
   24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,
   pp.1121-1124
10. **Improving the Pearson Similarity Equation for Recommender Systems by Age Parameter**
    AYGÜN S., OKYAY S.
    3rd IEEE Workshop on Advances in Information, Electronic and Electrical Engineering (AIEEE), Riga, Latvia, 13 -
    14 November 2015

Courses

Undergraduate
INTRODUCTION TO MICROCOMPUTERS, Undergraduate, 2024 - 2025, 2023 - 2024
INTRODUCTION TO ARTIFICIAL INTELLIGENCE, Undergraduate, 2024 - 2025, 2023 - 2024
APPLIED DATA ANALYSIS AND MODELING, Undergraduate, 2023 - 2024
DISCRETE COMPUTATIONAL STRUCTURES, Undergraduate, 2023 - 2024
INTRODUCTION TO MICROCOMPUTERS LAB., Undergraduate, 2024 - 2025, 2023 - 2024

Peer Reviews in Scientific Publications

IEEE ACCESS, Journal Indexed in SCI-E, January 2025
IEEE ACCESS, Journal Indexed in SCI-E, January 2025
IEEE ACCESS, Journal Indexed in SCI-E, September 2024
IEEE ACCESS, Journal Indexed in SCI-E, August 2024
IEEE ACCESS, Journal Indexed in SCI-E, July 2024
IEEE ACCESS, Journal Indexed in SCI-E, June 2024
IEEE ACCESS, Journal Indexed in SCI-E, March 2024
PATTERN ANALYSIS AND APPLICATIONS, Journal Indexed in SCI-E, March 2024
PATTERN ANALYSIS AND APPLICATIONS, Journal Indexed in SCI-E, February 2024
PATTERN ANALYSIS AND APPLICATIONS, Journal Indexed in SCI-E, January 2024
IEEE ACCESS, Journal Indexed in SCI-E, January 2024
IEEE ACCESS, Journal Indexed in SCI-E, August 2023
IEEE ACCESS, Journal Indexed in SCI-E, June 2023
IEEE ACCESS, Journal Indexed in SCI-E, May 2023
IEEE ACCESS, Journal Indexed in SCI-E, May 2023
IEEE ACCESS, Journal Indexed in SCI-E, May 2023
IEEE ACCESS, Journal Indexed in SCI-E, May 2023
IEEE ACCESS, Journal Indexed in SCI-E, May 2023

JOURNAL OF SUPERCOMPUTING, Journal Indexed in SCI-E, March 2023

IEEE ACCESS, Journal Indexed in SCI-E, March 2023

IEEE ACCESS, Journal Indexed in SCI-E, March 2023

IEEE ACCESS, Journal Indexed in SCI-E, March 2023

IEEE ACCESS, Journal Indexed in SCI-E, March 2023

BMC MEDICAL INFORMATICS AND DECISION MAKING, Journal Indexed in SCI-E, March 2023

IEEE ACCESS, Journal Indexed in SCI-E, February 2023

IEEE ACCESS, Journal Indexed in SCI-E, February 2023

IEEE ACCESS, Journal Indexed in SCI-E, February 2023

IEEE ACCESS, Journal Indexed in SCI-E, February 2023

IEEE ACCESS, Journal Indexed in SCI-E, December 2022

IEEE ACCESS, Journal Indexed in SCI-E, December 2022

IEEE ACCESS, Journal Indexed in SCI-E, November 2022

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IEEE ACCESS, Journal Indexed in SCI-E, November 2022

IEEE ACCESS, Journal Indexed in SCI-E, November 2022

IEEE ACCESS, Journal Indexed in SCI-E, October 2022

IEEE ACCESS, Journal Indexed in SCI-E, October 2022

BMC MEDICAL INFORMATICS AND DECISION MAKING, Journal Indexed in SCI-E, October 2022

IEEE ACCESS, Journal Indexed in SCI-E, October 2022

IEEE ACCESS, Journal Indexed in SCI-E, September 2022

IEEE ACCESS, Journal Indexed in SCI-E, September 2022

IEEE ACCESS, Journal Indexed in SCI-E, September 2022

IEEE ACCESS, Journal Indexed in SCI-E, August 2022

IEEE ACCESS, Journal Indexed in SCI-E, August 2022

IEEE ACCESS, Journal Indexed in SCI-E, July 2022

IEEE ACCESS, Journal Indexed in SCI-E, July 2022

IEEE ACCESS, Journal Indexed in SCI-E, July 2022

IEEE ACCESS, Journal Indexed in SCI-E, June 2022

IEEE ACCESS, Journal Indexed in SCI-E, May 2022

Jordanian Journal of Computers and Information Technology, Other Indexed Journal, January 2022

Mobility Activity

Erasmus Programme, Staff Mobility, Universitatea „Constantin Brâncuşi" din Târgu Jiu, Romania, 2023 - 2023

Erasmus Programme, Staff Mobility, Voronezh State University, Russia, 2022 - 2022

Metrics

Publication: 25

Citation (WoS): 5

Citation (Scopus): 21

H-Index (WoS): 1

H-Index (Scopus): 3

Invited Talks

4th International Conference on Intelligence-Based Transformations of Technology and Business Trends – (ICITTBT

2024), Conference, Canadian Institute of Technology ("Instituti Kanadez i Teknologjisë"), Albania, May 2024

Research Areas

Parallel Algorithms, Data Structures, Knowledge Engineering, Computer Learning, Text/Document Processing, Pattern Recognition and Image Processing

Non Academic Experience

University, Graduate School of Natural and Applied Sciences, Deperatmen of Computer Engineering, Head Assistant

Business Establishment Private, Savronik, Communication in Aviation, System Engineer