

# SAVAŞ OKYAY

## ASST. PROF.

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Fakültesi Binası, A-blok, 3. Kat, Oda356, 26040, Odunpazarı,  
Eskişehir, Türkiye.

### International Researcher IDs

ScholarID: qRzCUEQAAAAJ

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

ScopusID: 57188768421

Yoksis Researcher ID: 217739



### Biography

**SAVAS OKYAY** was born in Eskişehir, Türkiye in 1989. He completed his computer engineering undergraduate education at Eskişehir 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 as a research assistant at ESOGU since 2014 and completed his doctorate in Eskişehir Technical University (ESTU) in 2023. His research interests include recommender systems, machine learning, and parallel computing.

### Learning Knowledge

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	Eskişehir 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, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği
Research Assistant 2014 - 2023	Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği

## Awards

1. Okyay S., Best Paper Award, The 5Th International Conference on 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. **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)
2. **Developing a forest fire prediction model based on deep learning and forecast a fire risk map of Turkey**  
Fidanboy M., Adar N., Okyay S.  
Ormançılık Araştırma Dergisi, vol.9, no.2, pp.206-218, 2022 (Peer-Reviewed Journal)
3. **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)
4. **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)
5. **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)

6. **Filter Feature Selection Analysis to Determine the Characteristics of Dementia**  
Okay S., Adar N.  
Journal of Engineering and Architecture Faculty of Eskişehir Osmangazi University, vol.29, pp.20-27, 2021 (Peer-Reviewed Journal)
7. **Hybrid Course Recommendation System Design for a Real-Time Student Automation Application**  
Arık A., Okay S., Adar N.  
European Journal of Science and Technology, vol.0, no.26, pp.85-90, 2021 (Peer-Reviewed Journal)
8. **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)
9. **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)
10. **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)
11. **Feature Selection on MR Images Using Genetic Algorithm with SVM and Naive Bayes Classifiers**  
Adar N., Okay 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)

## Refereed Congress / Symposium Publications in Proceedings

1. **The Prediction of Student Grades Using Collaborative Filtering in a Course Recommender System**  
Ceyhan M., Okay 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**  
Okay 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 Radioelectronics, 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 Conference on Advanced Technology Sciences (ICAT17), İstanbul, Turkey, 9 - 12 May 2017

8. **FEATURE SELECTION ON MR IMAGES USING GENETIC ALGORITHM WITH 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

## Scientific Refereeing

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  
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 IEEE ACCESS, Journal Indexed in SCI-E, May 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  
 JOURNAL OF SUPERCOMPUTING, 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  
 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, November 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, 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 Brâncuși” din Târgu Jiu, Romania, 2023 - 2023

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

## **Metrics**

Publication: 23

Citation (WoS): 5

Citation (Scopus): 14

H-Index (WoS): 1

H-Index (Scopus): 2

## **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, Department of Computer Engineering

Business Establishment Private, Savronik, Communication in Aviation