

Asst. Prof. GÖKSU TÜYSÜZOĞLU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: HJH-7694-2023

ScopusID: 57112520800

Yoksis Researcher ID: 179894

Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2016 - 2021

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Yl) (Tezli), Turkey 2013 - 2016

Undergraduate, Dogus University, Faculty Of Engineering, Department Of Information Systems Engineering, Turkey 2008 - 2013

Undergraduate Double Major, Dogus University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey 2008 - 2013

Dissertations

Doctorate, DATA MINING AND MACHINE LEARNING IN ENVIRONMENTAL INFORMATICS, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2021

Postgraduate, Sparse coding based ensemble classifiers combined with active learning framework for data classification, Istanbul Technical University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Yl) (Tezli), 2016

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2023 - Continues

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2016 - 2023

Research Assistant, Istanbul Technical University, Bilgisayar Ve Bilişim, Bilgisayar Mühendisliği, 2014 - 2016

Research Assistant, Dogus University, Faculty Of Engineering, Department Of Information Systems Engineering, 2013 - 2014

Courses

Introduction to Data Mining, Undergraduate, 2023 - 2024
Computer Engineering Design, Undergraduate, 2023 - 2024
Introduction to Programming, Undergraduate, 2023 - 2024
Computer Engineering Design, Undergraduate, 2021 - 2022
Introduction to Machine Learning, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Partial Decision Tree Forest: A Machine Learning Model for the Geosciences**
Kiyak E. O., TÜYSÜZOĞLU G., BİRANT D.
MINERALS, vol.13, no.6, 2023 (SCI-Expanded)
- II. **Rainfall Prediction Using an Ensemble Machine Learning Model Based on K-Stars**
TÜYSÜZOĞLU G., BİRANT K. U., BİRANT D.
SUSTAINABILITY, vol.15, no.7, 2023 (SCI-Expanded)
- III. **Soil Temperature Prediction via Self-Training: Izmir Case**
TÜYSÜZOĞLU G., BİRANT D., Kiranoglu V.
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BILIMLERI DERGISI, vol.28, no.1, pp.47-62, 2022 (SCI-Expanded)
- IV. **Temporal bagging: a new method for time-based ensemble learning**
Tüysüzoğlu G., Birant D., Kiranoglu V.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.1, pp.279-294, 2022 (SCI-Expanded)
- V. **Enhanced Bagging (eBagging): A Novel Approach for Ensemble Learning**
Tüysüzoğlu G., Birant D.
INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY, vol.17, no.4, pp.515-528, 2020 (SCI-Expanded)
- VI. **Majority Voting Based Multi-Task Clustering of Air Quality Monitoring Network in Turkey**
Tüysüzoğlu G., Birant D., Pala A.
APPLIED SCIENCES-BASEL, vol.9, no.8, 2019 (SCI-Expanded)
- VII. **Sparse coding based classifier ensembles in supervised and active learning scenarios for data classification**
Tüysüzoğlu G., Yaslan Y.
EXPERT SYSTEMS WITH APPLICATIONS, vol.91, pp.364-373, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Multi-view multi-depth soil temperature prediction (MV-MD-STP): a new approach using machine learning and time series methods**
TÜYSÜZOĞLU G., BİRANT D., Kiranoglu V.
INTERNATIONAL JOURNAL OF INTELLIGENT ENGINEERING INFORMATICS, no.1, pp.74-104, 2022 (ESCI)
- II. **Prediction of Crime Occurrence in case of Scarcity of Labeled Data**
Kıranoglu V., Tüysüzoğlu G., Öztürk Kiyak E.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.23, no.68, pp.677-687, 2020 (Peer-Reviewed Journal)
- III. **A Hybrid Movie Recommendation System Using Graph-Based Approach**
Tüysüzoğlu G., Işık Z.
International Journal of Computing Academic Research, vol.7, no.2, pp.29-37, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Air Pollution Monitoring in Intelligent Cities Using Weighted Association Rule Mining**
Tüysüzoğlu G., Birant D.
in: Developing and Monitoring Smart Environments for Intelligent Cities, Zaigham Mahmood, Editor, IGI Global, Pennsylvania, pp.171-197, 2021
- II. **Ensemble Methods in Environmental Data Mining**
Tüysüzoğlu G., Birant D., Pala A.
in: Data Mining, Ciza Thomas, Editor, IntechOpen, London, pp.1-16, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Classification of Air Quality Network based on Meteorological and Pollutant Factors**
Tüysüzoğlu G., Birant D., Kut A., Pala A.
2nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Turkey, 26 - 27 June 2020, pp.128-133
- II. **Comparison of Different Clustering Ensembles by Solution Selection Strategy**
Tuysuzglu G., Birant D.
3rd International Conference on Computer Science and Engineering, UBMK 2018, Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.67-72
- III. **Biomedical Data Classification Using Supervised Classifiers and Ensemble Based Dictionaries**
Tüysüzoğlu G., Yaslan Y.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- IV. **Ensemble based classifiers using dictionary learning**
Tüysüzoğlu G., Moarref N., Yaslan Y.
Systems, Signals and Image Processing (IWSSIP), Bratislava, Slovakia, 23 - 25 May 2016
- V. **Data classification using sparse coding based active learning**
Tüysüzoğlu G., Yaslan Y.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016
- VI. **Analysing graduation project rubrics using machine learning techniques**
Tüysüzoğlu G., Moarref N., Çataltepe Z., Tosun A., Yaslan Y.
Computer Science Education (ICCSE), 2015 10th International Conference, Cambridge, Canada, 22 - 24 July 2015, pp.19-24

Supported Projects

Tumay S., Doğan Y., Dalkılıç F., Tüysüzoğlu G., Karaduman Ç. C., Mavi H., Geçin Aksakal N., Özsever K., Karaman Cengiz C.,
Project Supported by Higher Education Institutions, Zafere Doğru 2023, 2020 - 2023

Scientific Refereeing

International Scientific and Vocational Studies Journal, Other Indexed Journal, December 2023
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, September 2023
COMPUTER SYSTEMS SCIENCE AND ENGINEERING, Other Indexed Journal, June 2023
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, May 2023
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, May 2023
COMBINATORIAL CHEMISTRY AND HIGH THROUGHPUT SCREENING, Journal Indexed in SCI-E, March 2023

EARTH SCIENCE INFORMATICS, Journal Indexed in SCI-E, August 2022

JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, Journal Indexed in SCI-E, July 2022

FRONTIERS IN NEUROROBOTICS, Journal Indexed in SCI-E, December 2021

GEOSCIENTIFIC INSTRUMENTATION, METHODS AND DATA SYSTEMS, Journal Indexed in SCI-E, June 2021

Mugla Journal of Science and Technology, Other Indexed Journal, May 2021

Bilgisayar Bilimleri ve Teknolojileri Dergisi, Other Indexed Journal, March 2021

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, February 2021

Metrics

Publication: 18

Citation (WoS): 54

Citation (Scopus): 58

H-Index (WoS): 3

H-Index (Scopus): 3

Awards

Tüysüzoğlu G., Bulut E. B., Yurtseven S., Ağdar B., Akademik ve Diğer Bilişim Uygulamaları/Üçüncülük Ödülü, 11. Genç Beyinler Yeni Fikirler (Gbyf), June 2022

Tüysüzoğlu G., Üstün Başarı Ödülü (Doktora), Dokuz Eylül Üniversitesi, December 2021

Tüysüzoğlu G., Yayın Onur Ödülü (Doktora), Dokuz Eylül Üniversitesi, February 2021

Tüysüzoğlu G., Üniversite Üçüncüsü, Doğu Üniversitesi, June 2013

Tüysüzoğlu G., Mühendislik Fakültesi Üçüncüsü, Doğu Üniversitesi, June 2013

Tüysüzoğlu G., Bilişim Sistemleri Mühendisliği Bölüm Birincisi, Doğu Üniversitesi, June 2013