

## Prof. Dr. EBRU SEZER

### Kişisel Bilgiler

E-posta: ebru@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/ebru>

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-9287-2679

ScopusID: 36444813800

Yoksis Araştırmacı ID: 183118

### Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Ens, Bilgisayar Mühendisliği, Türkiye 2000 - 2006

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Araştırma Alanları

Bilgisayar Bilimleri, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, Bulanık kümeler ve Sistemler , Mühendislik ve Teknoloji

### Yönetilen Tezler

GÖKÇEOĞLU C., SEZER E., Granitik kayaların tek eksenli sıkışma dayanımı üzerinde mineralojik ve petrografik özelliklerin etkisinin incelenmesi, Doktora, N.GÜLTEKİN(Öğrenci), 2011

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Comparative Analysis of Deep Learning Methods on CT Images for Lung Cancer Specification**  
KALKAN M., Guzel M. S., Ekinci F., SEZER E., Asuroglu T.  
CANCERS, sa.19, 2024 (SCI-Expanded)
- Early prediction of Sepsis: A comparative assessment on patients' covariates**  
MUTLU BİLGE B., Yesilyurt M. E., Shahbazi N., GÜZEL M. S., SEZER E.  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, 2024 (SCI-Expanded)
- Region-Based Semi-Two-Stream Convolutional Neural Networks for Pressure Ulcer Recognition**  
ZALLUHOĞLU C., Akdogan D., Karakaya D., GÜZEL M. S., Ulgu M. M., Ardali K., Boyali A. O., SEZER E.  
JOURNAL OF IMAGING INFORMATICS IN MEDICINE, sa.2, ss.801-813, 2024 (SCI-Expanded)
- TR-BI-RADS: a novel dataset for BI-RADS based mammography classification**  
Ülgü M. M., ZALLUHOĞLU C., Birinci S., Yarbay Y., SEZER E.  
Neural Computing and Applications, cilt.36, sa.7, ss.3699-3709, 2024 (SCI-Expanded)
- Enhanced sentence representation for extractive text summarization: Investigating the syntactic and**

**semantic features and their contribution to sentence scoring**

MUTLU BİLGE B., SEZER E.

Expert Systems with Applications, cilt.227, 2023 (SCI-Expanded)

- VI. **Binary background model with geometric mean for author-independent authorship verification**  
Canbay P., SEZER E., Sever H.  
JOURNAL OF INFORMATION SCIENCE, cilt.49, sa.2, ss.448-464, 2023 (SCI-Expanded)
- VII. **Elevating healthcare through artificial intelligence: analyzing the abdominal emergencies data set (TR\_ABDOMEN\_RAD\_EMERGENCY) at TEKNOFEST-2022**  
Koç U., SEZER E., Özkaya Y. A., Yarbay Y., Beşler M. S., Taydaş O., YALÇIN A., Evrimler Ş., Kızıloğlu H. A., Kesimal U., et al.  
European Radiology, 2023 (SCI-Expanded)
- VIII. **An Auto-Approval Approach for Laboratory Test Assessment**  
MUTLU BİLGE B., Kazezoglu C., Soylu S., Uzunal E., Akyurek A. O., SEZER E.  
IEEE ACCESS, cilt.9, ss.138323-138344, 2021 (SCI-Expanded)
- IX. **Candidate sentence selection for extractive text summarization**  
MUTLU B., SEZER E., AKCAYOL M. A.  
INFORMATION PROCESSING & MANAGEMENT, cilt.57, sa.6, 2020 (SCI-Expanded)
- X. **Sentiment aware word embeddings using refinement and senti-contextualized learning approach**  
Naderalvojud B., SEZER E.  
NEUROCOMPUTING, cilt.405, ss.149-160, 2020 (SCI-Expanded)
- XI. **Term evaluation metrics in imbalanced text categorization**  
Naderalvojud B., SEZER E.  
NATURAL LANGUAGE ENGINEERING, cilt.26, sa.1, ss.31-47, 2020 (SCI-Expanded)
- XII. **On the use of hierarchical fuzzy inference systems (HFIS) in expert-based landslide susceptibility mapping: the central part of the Rif Mountains (Morocco)**  
Ozer B. C., Mutlu B., NEFESLİOĞLU H. A., SEZER E., Rouai M., Dekayir A., GÖKÇEOĞLU C.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, cilt.79, sa.1, ss.551-568, 2020 (SCI-Expanded)
- XIII. **An Experimental Research on the Use of Recurrent Neural Networks in Landslide Susceptibility Mapping**  
MUTLU B., NEFESLİOĞLU H. A., SEZER E., AKCAYOL M. A., GÖKÇEOĞLU C.  
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, cilt.8, sa.12, 2019 (SCI-Expanded)
- XIV. **Multi-document extractive text summarization: A comparative assessment on features**  
MUTLU B., SEZER E., AKCAYOL M. A.  
KNOWLEDGE-BASED SYSTEMS, cilt.183, 2019 (SCI-Expanded)
- XV. **A time-based global path planning strategy for crowd navigation**  
ÖZCAN C. Y., SEZER E., HACİÖMEROĞLU M.  
COMPUTER ANIMATION AND VIRTUAL WORLDS, cilt.30, sa.2, 2019 (SCI-Expanded)
- XVI. **Combining GPU-generated linear trajectory segments to create collision-free paths for real-time ambient crowds**  
BARUT Ö., HACİÖMEROĞLU M., SEZER E.  
GRAPHICAL MODELS, cilt.99, ss.31-45, 2018 (SCI-Expanded)
- XVII. **Perceptual evaluation of maneuvering motion illusion for virtual pedestrians**  
BARUT Ö., HACİÖMEROĞLU M., SEZER E.  
VISUAL COMPUTER, cilt.34, ss.1119-1128, 2018 (SCI-Expanded)
- XVIII. **A defuzzification-free hierarchical fuzzy system (DF-HFS): Rock mass rating prediction**  
Mutlu B., SEZER E., Nefeslioglu H. A.  
FUZZY SETS AND SYSTEMS, cilt.307, ss.50-66, 2017 (SCI-Expanded)
- XIX. **An expert-based landslide susceptibility mapping (LSM) module developed for Netcad Architect Software**  
SEZER E., Nefeslioglu H. A., Osna T.  
COMPUTERS & GEOSCIENCES, cilt.98, ss.26-37, 2017 (SCI-Expanded)

- XX. **Iterative software fault prediction with a hybrid approach**  
Erturk E., SEZER E.  
APPLIED SOFT COMPUTING, cilt.49, ss.1020-1033, 2016 (SCI-Expanded)
- XXI. **A comparison of some soft computing methods for software fault prediction**  
ERTURK E., Sezer E. A.  
EXPERT SYSTEMS WITH APPLICATIONS, cilt.42, sa.4, ss.1872-1879, 2015 (SCI-Expanded)
- XXII. **An assessment on producing synthetic samples by fuzzy C-means for limited number of data in prediction models**  
SEZER E., NEFESLIOGLU H. A., GÖKÇEOĞLU C.  
APPLIED SOFT COMPUTING, cilt.24, ss.126-134, 2014 (SCI-Expanded)
- XXIII. **GeoFIS: An integrated tool for the assessment of landslide susceptibility**  
Osna T., SEZER E., AKGÜN A.  
COMPUTERS & GEOSCIENCES, cilt.66, ss.20-30, 2014 (SCI-Expanded)
- XXIV. **Prediction of uniaxial compressive strength of granitic rocks by various nonlinear tools and comparison of their performances**  
Yesiloglu-Gultekin N., GÖKÇEOĞLU C., SEZER E.  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, cilt.62, ss.113-122, 2013 (SCI-Expanded)
- XXV. **A modified analytical hierarchy process (M-AHP) approach for decision support systems in natural hazard assessments**  
Nefeslioglu H. A., SEZER E., GÖKÇEOĞLU C., AYAS Z.  
COMPUTERS & GEOSCIENCES, cilt.59, ss.1-8, 2013 (SCI-Expanded)
- XXVI. **A computer program (TSecSoft) to determine mineral percentages using photographs obtained from thin sections**  
YESILOGLU-GULTEKIN N., KEÇELİ A. S., SEZER E., CAN A. B., GÖKÇEOĞLU C., BAYHAN H.  
COMPUTERS & GEOSCIENCES, cilt.46, ss.310-316, 2012 (SCI-Expanded)
- XXVII. **An easy-to-use MATLAB program (MamLand) for the assessment of landslide susceptibility using a Mamdani fuzzy algorithm**  
Akgun A., SEZER E., Nefeslioglu H. A., GÖKÇEOĞLU C., Pradhan B.  
COMPUTERS & GEOSCIENCES, cilt.38, sa.1, ss.23-34, 2012 (SCI-Expanded)
- XXVIII. **Daily streamflow prediction by ANFIS modeling: Application to Lower Zamanti Karst Basin, Turkey**  
ÖZYURT N. N., SEZER E.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, cilt.23, sa.6, ss.305-311, 2012 (SCI-Expanded)
- XXIX. **Manifestation of an adaptive neuro-fuzzy model on landslide susceptibility mapping: Klang valley, Malaysia**  
SEZER E., Pradhan B., GÖKÇEOĞLU C.  
EXPERT SYSTEMS WITH APPLICATIONS, cilt.38, sa.7, ss.8208-8219, 2011 (SCI-Expanded)
- XXX. **Modeling of the uniaxial compressive strength of some clay-bearing rocks using neural network**  
ÇEVİK A., SEZER E., ÇABALAR A. F., GÖKÇEOĞLU C.  
APPLIED SOFT COMPUTING, cilt.11, sa.2, ss.2587-2594, 2011 (SCI-Expanded)
- XXXI. **Landslide Susceptibility Mapping by Neuro-Fuzzy Approach in a Landslide-Prone Area (Cameron Highlands, Malaysia)**  
Pradhan B., SEZER E., GÖKÇEOĞLU C., Buchroithner M. F.  
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, cilt.48, sa.12, ss.4164-4177, 2010 (SCI-Expanded)
- XXXII. **An assessment on the use of infrascanner for the diagnosis of the brain hemotoma by using support vector machine**  
Coskun F., SEZER E., Karamercan M. A., Akinci E., Vural K.  
SCIENTIFIC RESEARCH AND ESSAYS, cilt.5, sa.14, ss.1911-1915, 2010 (SCI-Expanded)
- XXXIII. **A computer program for fractal dimension (FRACEK) with application on type of mass movement characterization**  
Sezer E.

- COMPUTERS & GEOSCIENCES, cilt.36, sa.3, ss.391-396, 2010 (SCI-Expanded)
- XXXIV. **Assessment of Landslide Susceptibility by Decision Trees in the Metropolitan Area of Istanbul, Turkey**  
Nefeslioglu H. A., SEZER E., GÖKÇEOĞLU C., BOZKIR A. S., Duman T. Y.  
MATHEMATICAL PROBLEMS IN ENGINEERING, 2010 (SCI-Expanded)
- XXXV. **A statistical assessment on international landslide literature (1945-2008)**  
GÖKÇEOĞLU C., SEZER E.  
LANDSLIDES, cilt.6, sa.4, ss.345-351, 2009 (SCI-Expanded)
- XXXVI. **International earth science literature from Turkey - 1970-2005: Trends and possible causes**  
GÖKÇEOĞLU C., Okay A., SEZER E.  
SCIENTOMETRICS, cilt.74, sa.3, ss.409-423, 2008 (SCI-Expanded)
- XXXVII. **Semantic information retrieval on the web**  
Sezer E., Yazici A., Yarimagan U.  
ADVANCES IN INFORMATION SYSTEMS, PROCEEDINGS, cilt.4243, ss.158-167, 2006 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Artificial Intelligence in Healthcare Competition (TEKNOFEST-2021): Stroke Data Set**  
Koç U., SEZER E., Özkaya Y. A., Yarbay Y., Taydaş O., AYYILDIZ V. A., Kızıloğlu H. A., Kesimal U., Çankaya İ., Beşler M. S., et al.  
Eurasian Journal of Medicine, cilt.54, sa.3, ss.248-258, 2022 (ESCI)
- II. **Dijital Çine-Tepecik Projesi Kapsamında Seramik Buluntuları Üzerindeki Uygulamalar ve Değerlendirme**  
SEZER E., ZALLUHOĞLU C., KIYAK T. K.  
Arkeoloji ve Sanat, sa.168, ss.27-38, 2021 (Hakemli Dergi)
- III. **Dijital Çine-Tepecik Projesi Kapsamında Seramik Buluntuları Üzerindeki Uygulamalar ve Değerlendirme**  
Sezer E., Zalluhoğlu C., Kiyak T. K.  
Arkeoloji ve Sanat, sa.168, 2021 (Hakemli Dergi)
- IV. **A new web based data mining exploration and reporting tool for decision makers**  
BOZKIR A. S., SEZER E.  
Artificial Intelligence Research, cilt.2, ss.70-89, 2013 (Hakemli Dergi)
- V. **An Ontology Based Infrastructure To Support CMMI-Based Software Process Assessment**  
Gazel S., SEZER E., KOLUKISA TARHAN A.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, cilt.25, sa.1, ss.155-164, 2012 (ESCI)

## **Kitap & Kitap Bölümleri**

- I. **Identification of User Patterns in Social Networks by Data Mining Techniques: Facebook Case**  
BOZKIR A. S., MAZMAN S. G., SEZER E.  
Technological Convergence and Social Networks in Information Management, Kurbanoglu Serap, Al Umut, Editör, Springer Berlin Heidelberg, Berlin, ss.145-153, 2010

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **A New Approach for Human Body Orientation Detection Using Camera Footage**  
Kartal A., Shahbazi N., SEZER E., GÜZEL M. S.  
8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Türkiye, 13 - 15 Eylül

2023, ss.46-50

- II. **Wildfire Classification Using Infrared Unmanned Aerial Vehicle Data with Convolutional Neural Networks**  
Aral R. A., ZALLUHOĞLU C., SEZER E.  
2023 International Conference on Smart Applications, Communications and Networking, SmartNets 2023, İstanbul, Türkiye, 25 - 27 Temmuz 2023
- III. **Small and Unbalanced Data Set Problem in Classification**  
PAR Ö. E., SEZER E., Sever H.  
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Türkiye, 24 - 26 Nisan 2019
- IV. **MULTILEVEL SENTIMENT ANALYSIS IN ARABIC**  
Nassar A., SEZER E.  
7th IEEE Palestinian International Conference on Electrical and Computer Engineering (PICECE), Gaza, Filistin, 26 - 27 Mart 2019
- V. **A New Fuzzy Rule Generation Scheme based on Multiple-Selection of Influencing Factors**  
MUTLU BİLGE B., SEZER E.  
IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), Louisiana, Amerika Birleşik Devletleri, 23 - 26 Haziran 2019
- VI. **HUMIR at IEST-2018: Lexicon-Sensitive and Left-Right Context-Sensitive BiLSTM for Implicit Emotion Recognition**  
NADERALVOJOUND B., UÇAN A., SEZER E.  
9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis, Brussels, Belçika, 31 Ekim - 01 Kasım 2018, ss.182-188
- VII. **Expert-based landslide susceptibility modelling by using hierarchical fuzzy systems (HFS): an investigation from central part of Rif Mountains (Morocco)**  
ÖZER B. C., MUTLU B., NEFESLİOĞLU H. A., SEZER E., ROUAI M., Dekayir A., GÖKÇEOĞLU C.  
European Geosciences Union General Assembly, Viyana, Avusturya, 4 - 13 Nisan 2018
- VIII. **Differentiations in Hierarchical Fuzzy Systems**  
MUTLU B., SEZER E.  
6th World Conference on Soft Computing, California, Amerika Birleşik Devletleri, 22 - 25 Mayıs 2016, cilt.361, ss.361-379
- IX. **Determining of Discriminative Blog Size for Authorship Attribution on the Turkish Texts**  
CANBAY P., SEVER H., SEZER E.  
6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Türkiye, 22 - 25 Mart 2018, ss.319-323
- X. **Automatic Rule Generation of Fuzzy Systems: A Comparative Assessment on Software Defect Prediction**  
MUTLU B., SEZER E., AKCAYOL M. A.  
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosna-Hersek, 20 - 23 Eylül 2018, ss.209-214
- XI. **End-to-End Hierarchical Fuzzy Inference Solution**  
MUTLU B., SEZER E., AKCAYOL M. A.  
IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), Rio de Janeiro, Brezilya, 8 - 13 Temmuz 2018
- XII. **Effect of Rule Evaluation in Hierarchical Systems A Benchmark on XOR Gate**  
MUTLU B., SEZER E., NEFESLİOĞLU H. A.  
The 4th International Fuzzy Systems Symposium, 5 - 06 Kasım 2015, ss.58-62
- XIII. **Use of Fuzzy Approaches to Make Predictions on Small Sized Data**  
ÖMERCİOĞLU A., SEZER E., YILMAZ Y., NEFESLİOĞLU H. A.  
The 4th International Fuzzy Systems Symposium, 5 - 06 Kasım 2015, ss.36-40
- XIV. **A comprehensive approach for medium scale landslide risk assessment**  
KEÇELİ A. S., NEFESLİOĞLU H. A., SEZER E., GÖKÇEOĞLU C.  
The 17th Annual Conference of the International Association for Mathematical Geosciences, 5 - 13 Ekim 2015

- XV. **Consequences of Structural Differences Between Hierarchical Systems While Fuzzy Inference**  
Mutlu B., SEZER E., NEFESLİOĞLU H. A.  
13th International Work-Conference on Artificial Neural Networks (IWANN), Palma de Mallorca, İspanya, 10 - 12 Haziran 2015, cilt.9094, ss.549-560
- XVI. **INVESTIGATION OF TERM WEIGHTING SCHEMES IN CLASSIFICATION OF IMBALANCED TEXTS**  
Naderalvojud B., BOZKIR A. S., SEZER E.  
MACHINE LEARNING AND DATA MINING IN PATTERN RECOGNITION, MLDM 2014, Lizbon, 15 - 17 Temmuz 2014, ss.39-46
- XVII. **Assessment of feature selection metrics for sentiment analyses Turkish movie reviews**  
UÇAN A., SEZER E., SEVER H.  
International Conference on Data Mining, Lisbon, Portekiz, 14 - 17 Temmuz 2014
- XVIII. **EPESUS A DEVELOPING WEB BASED ENERGY MATERIAL FLOW ANALYSIS TOOL FOR ECO INDUSTRIAL PARKS**  
BOZKIR A. S., SEZER E., Yöntem E., Salihçavuşoğlu G.  
IADIS Internet Applications Research 2012, Lizbon, Portekiz, 17 - 23 Temmuz 2013
- XIX. **ADEM An Online Decision Tree Based Menu Demand Prediction Tool for Food Courts**  
BOZKIR A. S., SEZER E.  
4th International Conference on Food Engineering and Biotechnology, Kopenhag, Danimarka, 17 Ocak 2013, cilt.43
- XX. **ANFIS modeling for estimation of uniaxial compressive strength of some granitic rocks from their mineral content**  
GÜLTEKİN N., SEZER E., GÖKÇEOĞLU C., BAYHAN H.  
FUZZYSS'2011: 2nd International Fuzzy Systems Symposium, Ankara, Türkiye, 17 - 18 Kasım 2011
- XXI. **MOBILE MIND A FULLY MOBILE PLATFORM BASED MACHINE LEARNING APPLICATION**  
BOZKIR A. S., SEZER E.  
IADIS Data Mining Conference, Roma, İtalya, 19 - 23 Temmuz 2011
- XXII. **Use of nonlinear prediction tool to estimate uniaxial compressive strength and modulus of elasticity of some granitic rocks**  
GÜLTEKİN N., SEZER E., GÖKÇEOĞLU C.  
EGU General Assembly 2010, Viyana, Avusturya, 2 - 07 Mayıs 2010
- XXIII. **An Experimental Study on the Min-Image Production for Determination of Mineral Percentages**  
GÖKÇEOĞLU C., GÜLTEKİN N., KEÇELİ A. S., SEZER E., CAN A. B., BAYHAN H.  
EGU General Assembly 2012, Viyana, Avusturya, 22 - 27 Nisan 2012

## Desteklenen Projeler

- SEZER E., TÜBİTAK Projesi, Novel Approach to Rule Based Turkish Sentiment Analysis Using Sentiment Lexicon, 2015 - Devam Ediyor
- SEZER E., Diğer Özel Kurumlarca Desteklenen Proje, HBYS sistemi için bilirkişi değerlendirme raporlarının incelenmesi, 2016 - 2016
- SEZER E., Diğer Özel Kurumlarca Desteklenen Proje, Net InRisk projesi için arge değerlendirmesi, 2016 - 2016
- SEZER E., Diğer Özel Kurumlarca Desteklenen Proje, Netcad çözümlerinde akıllı yöntemlerin kullanımı, 2016 - 2016
- SEZER E., Diğer Özel Kurumlarca Desteklenen Proje, Tabiat Varlıkları Koruma Hususunda Karar Destek Sisteminin Geliştirilmesi, 2015 - 2015

## Metrikler

Yayın: 68

Atf (WoS): 1223

Atf (Scopus): 814

H-İndeks (WoS): 15

H-İndeks (Scopus): 10