

## **Doç.Dr. HAKAN AHMET NEFESLİOĞLU**

### **Kişisel Bilgiler**

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### **Uluslararası Araştırmacı ID'leri**

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Publons / Web Of Science ResearcherID: B-7461-2016

Yoksis Araştırmacı ID: 188736

### **Eğitim Bilgileri**

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilim Dalı, Türkiye 2003 - 2008

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilim Dalı, Türkiye 2000 - 2003

Lisans, Hacettepe Üniversitesi, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Türkiye 1994 - 2000

Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilim Dalı, Türkiye 1994 - 2000

### **Yabancı Diller**

İngilizce, B2 Orta Üstü

### **Araştırma Alanları**

Jeoloji Mühendisliği , Uygulamalı Jeoloji, Mühendislik Jeolojisi (Temel, Deprem, Baraj, Gölet), Mühendislik ve Teknoloji

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

- I. **Derivation of earthquake-induced landslide distribution using aerial photogrammetry: the January 24, 2020, Elazig (Turkey) earthquake**  
KARAKAŞ G., NEFESLİOĞLU H. A., KOCAMAN GÖKÇEÖĞLU S., Buyukdemircioğlu M., Yurur T., GÖKÇEÖĞLU C. LANDSLIDES, cilt.18, sa.6, ss.2193-2209, 2021 (SCI-Expanded)
- II. **Infinite slope stability model and steady-state hydrology-based shallow landslide susceptibility evaluations: The Guneysu catchment area (Rize, Turkey)**  
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- III. **Use of multisensor and multitemporal geospatial datasets to extract the foundation characteristics of a large building: a case study**  
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BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, cilt.80, sa.4, ss.3251-3269, 2021 (SCI-Expanded)
- IV. **Integration of an InSAR and ANN for Sinkhole Susceptibility Mapping: A Case Study from Kirikkale-Delice (Turkey)**  
NEFESLİOĞLU H. A., TAVUS B., Er M., Ertugrul G., Ozdemir A., Kaya A., KOCAMAN GÖKÇEÖĞLU S.  
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- V. **The use of landslide hazard maps to determine mitigation priorities in a dam reservoir and its**

- protection area**
- NEFESLİOĞLU H. A., Görüm T.  
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- VI. **On the use of hierarchical fuzzy inference systems (HFIS) in expert-based landslide susceptibility mapping: the central part of the Rif Mountains (Morocco)**  
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- VII. **An Experimental Research on the Use of Recurrent Neural Networks in Landslide Susceptibility Mapping**  
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- VIII. **Landslide susceptibility mapping of the Mediterranean coastal zone of Morocco between Oued Laou and El Jebha using artificial neural networks (ANN)**  
Harmouzi H., NEFESLİOĞLU H. A., Rouai M., Sezer E. A., Dekayir A., GÖKÇEÖĞLU C.  
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- IX. **Mapping of shallow landslides with object-based image analysis from unmanned aerial vehicle data**  
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- X. **A Novel Performance Assessment Approach Using Photogrammetric Techniques for Landslide Susceptibility Mapping with Logistic Regression, ANN and Random Forest**  
Sevgen E., Kocaman S., NEFESLİOĞLU H. A., GÖKÇEÖĞLU C.  
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- XI. **A defuzzification-free hierarchical fuzzy system (DF-HFS): Rock mass rating prediction**  
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- XII. **An expert-based landslide susceptibility mapping (LSM) module developed for Netcad Architect Software**  
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- XIII. **A fuzzy classification routine for fine-grained soils**  
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- XIV. **Safety assessment of limestone-based engineering structures to be partially flooded by dam water: A case study from northeastern Turkey**  
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- XV. **Modification of seed cell sampling strategy for landslide susceptibility mapping: an application from the Eastern part of the Gallipoli Peninsula (Canakkale, Turkey)**  
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- XVI. **Determination of coastal border line: an integrated approach for a part of Antalya coast (Turkey)**  
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- XVII. **An assessment on producing synthetic samples by fuzzy C-means for limited number of data in prediction models**  
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- XVIII. **A. Blais-Stevens, P. Behnia, M. Kremer, A. Page, R. Kung, G. Bonham-Carter: Comments on Landslide susceptibility mapping of the Sea to Sky transportation corridor, British Columbia, Canada: comparison of two methods, Bulletin of Engineering Geology and the Environment, 2012, 71(3):447-**

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- XIX. **A modified analytical hierarchy process (M-AHP) approach for decision support systems in natural hazard assessments**

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- XX. **Influence of seismic acceleration on landslide susceptibility maps: a case study from NE Turkey (the Kelkit Valley)**

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- XXI. **Evaluation of geo-mechanical properties of very weak and weak rock materials by using non-destructive techniques: Ultrasonic pulse velocity measurements and reflectance spectroscopy**  
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- XXII. **An assessment on the use of Terra ASTER L3A data in landslide susceptibility mapping**  
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- XXIV. **Medium-scale hazard mapping for shallow landslide initiation: the Buyukkoy catchment area (Cayeli, Rize, Turkey)**

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- XXV. **Landform effect on rockfall and hazard mapping in Cappadocia (Turkey)**

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- XXVI. **Probabilistic Risk Assessment in Medium Scale for Rainfall-Induced Earthflows: Catakli Catchment Area (Cayeli, Rize, Turkey)**

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- XXVII. **Assessment of Landslide Susceptibility by Decision Trees in the Metropolitan Area of Istanbul, Turkey**

Nefeslioglu H. A., SEZER E., GÖKÇEÖĞLU C., BOZKIR A. S., Duman T. Y.

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- XXVIII. **A comparative study on indirect determination of degree of weathering of granites from some physical and strength parameters by two soft computing techniques**

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- XXIX. **Assessment of geo-environmental problems of the Zonguldak province (NW Turkey)**  
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- XXX. **Implementation of reconstructed geomorphologic units in landslide susceptibility mapping: the Melen Gorge (NW Turkey)**

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- XXXI. **An assessment on the use of logistic regression and artificial neural networks with different sampling strategies for the preparation of landslide susceptibility maps**

- Nefeslioglu H. A., GÖKÇEÖĞLU C., SÖNMEZ H.  
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- XXXII. **Extraction of potential debris source areas by logistic regression technique: a case study from Barla, Besparmak and Kapi mountains (NW Taurids, Turkey)**  
Tunusluoglu M. C., GÖKÇEÖĞLU C., Nefeslioglu H. A., Sonmez H.  
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- XXXIII. **Landslide susceptibility mapping for a part of tectonic Kelkit Valley (Eastern Black Sea region of Turkey)**  
Nefeslioglu H. A., Duman T. Y., Durmaz S.  
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- XXXIV. **Prediction of uniaxial compressive strength of sandstones using petrography-based models**  
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- XXXV. **Back-analysis of the source of the 1956 Eskisehir Earthquake using attenuation equation and damage data**  
Ocakoglu F., Acikalin S., Gokceoglu C., Nefeslioglu H. A., Sonmez H.  
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- XXXVI. **An artificial neural network application to produce debris source areas of Barla, Besparmak, and Kapi Mountains (NW Taurids, Turkey)**  
Tunusluoglu M. C., Gokceoglu C., Sonmez H., Nefeslioglu H. A.  
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- XXXVII. **Application of logistic regression for landslide susceptibility zoning of Cekmece Area, Istanbul, Turkey**  
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- XXXVIII. **Indirect determination of weighted joint density (wJd) by empirical and fuzzy models: Supren (Eskisehir, Turkey) marbles**  
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- XXXIX. **Estimating the uniaxial compressive strength of a volcanic bimrock**  
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- XL. **Estimation of rock modulus: For intact rocks with an artificial neural network and for rock masses with a new empirical equation**  
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- XLI. **Susceptibility assessments of shallow earthflows triggered by heavy rainfall at three catchments by logistic regression analyses**  
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- XLII. **The 17 March 2005 Kuzulu landslide (Sivas, Turkey) and landslide-susceptibility map of its near vicinity**  
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- XLIII. **Determination of wJd on rock exposures including wide spaced joints**  
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- XLIV. **An approach to determine the weathering characteristics of discontinuities**  
Nefeslioglu H. A., Gokceoglu C., Sonmez H.

INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, cilt.41, sa.3, ss.387-388, 2004 (SCI-Expanded)

**XLV. A Mamdani model to predict the weighted joint density**

NEFESLİOĞLU H. A., Gokceoglu C., SONMEZ H.

KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT 1, PROCEEDINGS, cilt.2773, ss.1052-1057, 2003 (SCI-Expanded)

### **Düger Dergilerde Yayınlanan Makaleler**

- I. Değiştirilmiş AHP (M-AHP) Yöntemi Kullanılarak Ankara İçin Taşın Duyarlılık Haritası Üretimi  
sözer b., KOCAMAN S., NEFESLİOĞLU H. A., Fırat O., GÖKÇEÖĞLU C.  
Harita Dergisi, sa.162, ss.12-24, 2019 (Hakemli Dergi)
- II. Çok Zamanlı Heyelan Aktivitesinin Belirlenmesinde Jeomorfolojik Bir Yaklaşım  
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TÜRK COĞRAFYA DERGİSİ, cilt.0, sa.65, ss.47-58, 2015 (Hakemli Dergi)

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

- I. Flood Mapping Using Sentinel-1 SAR Data: A Case Study of Ordu 8 August 2018 Flood  
TAVUS B., KOCAMAN S., NEFESLİOĞLU H. A., GÖKÇEÖĞLU C.  
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- II. CONSIDERATIONS ON THE USE OF SENTINEL-1 DATA IN FLOOD MAPPING IN URBAN AREAS: ANKARA (TURKEY) 2018 FLOODS  
TAVUS B., KOCAMAN S., GÖKÇEÖĞLU C., NEFESLİOĞLU H. A.  
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- III. PRELIMINARY INVESTIGATIONS ON FLOOD SUSCEPTIBILITY MAPPING IN ANKARA (TURKEY) USING MODIFIED ANALYTICAL HIERARCHY PROCESS (M-AHP)  
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- IV. Expert-based landslide susceptibility modelling by using hierarchical fuzzy systems (HFS): an investigation from central part of Rif Mountains (Morocco)  
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European Geosciences Union General Assembly, Viyana, Avusturya, 4 - 13 Nisan 2018
- V. A Comparative Assessment of SINMAP Mathematical Model and Artificial Neural Network Based Landslide Susceptibility Evaluations  
KELEŞ F., NEFESLİOĞLU H. A.  
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- VI. EROSIONAL PROCESSES IN THE NALLIHAN (ANKARA) BADLAND AREA BASED ON ULTRA-HIGH RESOLUTION UNMANNED AERIAL VEHICLE (UAV) DTMS  
GÖRÜM T., AVDAN U., ÇÖMERT R., NEFESLİOĞLU H. A.  
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- VII. 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
- VIII. Use of Fuzzy Approaches to Make Predictions on Small Sized Data  
ÖMERCİOĞLU A., SEZER E., YILMAZ Y., NEFESLİOĞLU H. A.  
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- IX. Consequences of Structural Differences Between Hierarchical Systems While Fuzzy Inference

- Mutlu B., SEZER E., NEFESLİOĞLU H. A.  
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- X. **A Decision Support System Suggestion for the Optimum Railway Route Selection**  
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- XI. **Determination of the Shore Edge Line at Kundu (Antalya, Turkey)**  
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10th International Conference on the Mediterranean Coastal Environment, Rhodes, Yunanistan, 25 - 29 Ekim 2011, ss.221-223
- XII. **Mechanism and activity of a complex landslide**  
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- XIII. **A Mamdani model to predict the weighted joint density**  
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- XIV. **Change detection of structures in the earthquake hazard zoning map of Eskisehir city, Turkey, by using satellite images**  
Nefeslioglu H. A., Tun M., Ayday C., Goktan R.  
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## **Metrikler**

Yayın: 62  
Atıf (WoS): 2545  
Atıf (Scopus): 2943  
H-İndeks (WoS): 23  
H-İndeks (Scopus): 24