

Assoc. Prof. HAKAN AHMET NEFESLİOĞLU

Personal Information

Email: hanefeslioglu@akdeniz.edu.tr

Web: <https://avesis.akdeniz.edu.tr/hanefeslioglu>

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilimdalı, Turkey 2003 - 2008

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilimdalı, Turkey 2000 - 2003

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1994 - 2000

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

IT, Python ve R ile Bilimsel Hesaplama, Anadolu Üniversitesi ve İnternet Teknolojileri Derneği (INETD), 2015

Education Management and Planning, Eğiticilerin Eğitimi Programı, Hacettepe Üniversitesi Yaşamboyu Öğrenme Merkezi, 2014

Dissertations

Doctorate, Toprak Akımlarına İlişkin Tehlike Haritalarının Üretilmesi (Büyükköy Su Toplama Havzası, Çayeli, Rize), Hacettepe University, Department of Roman Law, Jeoloji Mühendisliği Anabilimdalı, 2008

Postgraduate, Süpren (Eskişehir) Mermer Ocaklarındaki Süreksizlikler İçin Fotoanaliz ve Bulanık Küme Teorisinin Kullanımı, Hacettepe University, Department of Roman Law, Jeoloji Mühendisliği Anabilimdalı, 2003

Research Areas

Geological Engineering, Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An expert-based landslide susceptibility mapping (LSM) module developed for Netcad Architect Software**
SEZER E., NEFESLİOĞLU H. A., OSNA T.
COMPUTERS & GEOSCIENCES, vol.98, pp.26-37, 2017 (SCI-Expanded)
- II. **A defuzzification-free hierarchical fuzzy system (DF-HFS): Rock mass rating prediction**
MUTLU B., SEZER E., NEFESLİOĞLU H. A.

FUZZY SETS AND SYSTEMS, vol.307, pp.50-66, 2017 (SCI-Expanded)

- III. **A fuzzy classification routine for fine-grained soils**
Toksoz D., YILMAZ I., NEFESLİOĞLU H. A., MARSCHALKO M.
QUARTERLY JOURNAL OF ENGINEERING GEOLOGY AND HYDROGEOLOGY, vol.49, no.4, pp.344-349, 2016 (SCI-Expanded)
- IV. **Safety assessment of limestone-based engineering structures to be partially flooded by dam water: A case study from northeastern Turkey**
GÖKÇEOĞLU C., TÜRER A., NEFESLİOĞLU H. A., TÜRER D., Meral C.
ENGINEERING GEOLOGY, vol.209, pp.44-55, 2016 (SCI-Expanded)
- V. **Modification of seed cell sampling strategy for landslide susceptibility mapping: an application from the Eastern part of the Gallipoli Peninsula (Canakkale, Turkey)**
DAĞDELENLER G., NEFESLİOĞLU H. A., GÖKÇEOĞLU C.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.75, no.2, pp.575-590, 2016 (SCI-Expanded)
- VI. **Determination of coastal border line: an integrated approach for a part of Antalya coast (Turkey)**
GÖKÇEOĞLU C., NEFESLİOĞLU H. A., TÜRER D., AKGÜN A., AYAŞ Z., TEMIMHAN M.
ARABIAN JOURNAL OF GEOSCIENCES, vol.8, no.2, pp.1145-1154, 2015 (SCI-Expanded)
- VII. **An assessment on producing synthetic samples by fuzzy C-means for limited number of data in prediction models**
SEZER E., NEFESLİOĞLU H. A., GÖKÇEOĞLU C.
APPLIED SOFT COMPUTING, vol.24, pp.126-134, 2014 (SCI-Expanded)
- VIII. **A modified analytical hierarchy process (M-AHP) approach for decision support systems in natural hazard assessments**
NEFESLİOĞLU H. A., SEZER E., GÖKÇEOĞLU C., AYAŞ Z.
COMPUTERS & GEOSCIENCES, vol.59, pp.1-8, 2013 (SCI-Expanded)
- IX. **Influence of seismic acceleration on landslide susceptibility maps: a case study from NE Turkey (the Kelkit Valley)**
DAS H. O., SÖNMEZ H., GÖKÇEOĞLU C., NEFESLİOĞLU H. A.
LANDSLIDES, vol.10, no.4, pp.433-454, 2013 (SCI-Expanded)
- X. **Evaluation of geo-mechanical properties of very weak and weak rock materials by using non-destructive techniques: Ultrasonic pulse velocity measurements and reflectance spectroscopy**
NEFESLİOĞLU H. A.
ENGINEERING GEOLOGY, vol.160, pp.8-20, 2013 (SCI-Expanded)
- XI. **An assessment on the use of Terra ASTER L3A data in landslide susceptibility mapping**
NEFESLİOĞLU H. A., San B. T., GÖKÇEOĞLU C., Duman T. Y.
INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION, vol.14, no.1, pp.40-60, 2012 (SCI-Expanded)
- XII. **An easy-to-use MATLAB program (MamLand) for the assessment of landslide susceptibility using a Mamdani fuzzy algorithm**
Akgun A., SEZER E., NEFESLİOĞLU H. A., GÖKÇEOĞLU C., Pradhan B.
COMPUTERS & GEOSCIENCES, vol.38, no.1, pp.23-34, 2012 (SCI-Expanded)
- XIII. **Medium-scale hazard mapping for shallow landslide initiation: the Buyukkoy catchment area (Cayeli, Rize, Turkey)**
NEFESLİOĞLU H. A., GÖKÇEOĞLU C., SÖNMEZ H., GORUM T.
LANDSLIDES, vol.8, no.4, pp.459-483, 2011 (SCI-Expanded)
- XIV. **Landform effect on rockfall and hazard mapping in Cappadocia (Turkey)**
Zorlu K., TUNUSLUOĞLU M. C., Gorum T., NEFESLİOĞLU H. A., Yalcin A., TÜRER D., GÖKÇEOĞLU C.
ENVIRONMENTAL EARTH SCIENCES, vol.62, no.8, pp.1685-1693, 2011 (SCI-Expanded)
- XV. **Probabilistic Risk Assessment in Medium Scale for Rainfall-Induced Earthflows: Catakli Catchment Area (Cayeli, Rize, Turkey)**
NEFESLİOĞLU H. A., GÖKÇEOĞLU C.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2011, 2011 (SCI-Expanded)

- XVI. **Assessment of Landslide Susceptibility by Decision Trees in the Metropolitan Area of Istanbul, Turkey**
NEFESLİOĞLU H. A., SEZER E., GÖKÇEOĞLU C., BOZKIR A. S., DUMAN T. Y.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2010, 2010 (SCI-Expanded)
- XVII. **A comparative study on indirect determination of degree of weathering of granites from some physical and strength parameters by two soft computing techniques**
GÖKÇEOĞLU C., Zorlu K., Ceryan S., NEFESLİOĞLU H. A.
MATERIALS CHARACTERIZATION, vol.60, no.11, pp.1317-1327, 2009 (SCI-Expanded)
- XVIII. **Implementation of reconstructed geomorphologic units in landslide susceptibility mapping: the Melen Gorge (NW Turkey)**
Gorum T., GÖNENÇİL B., GÖKÇEOĞLU C., NEFESLİOĞLU H. A.
NATURAL HAZARDS, vol.46, no.3, pp.323-351, 2008 (SCI-Expanded)
- XIX. **Assessment of geo-environmental problems of the Zonguldak province (NW Turkey)**
TÜRER D., NEFESLİOĞLU H. A., Zorlu K., GÖKÇEOĞLU C.
ENVIRONMENTAL GEOLOGY, vol.55, no.5, pp.1001-1014, 2008 (SCI-Expanded)
- XX. **An assessment on the use of logistic regression and artificial neural networks with different sampling strategies for the preparation of landslide susceptibility maps**
NEFESLİOĞLU H. A., GÖKÇEOĞLU C., SÖNMEZ H.
ENGINEERING GEOLOGY, vol.97, no.3-4, pp.171-191, 2008 (SCI-Expanded)
- XXI. **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., GÖKÇEOĞLU C., NEFESLİOĞLU H. A., SONMEZ H.
ENVIRONMENTAL GEOLOGY, vol.54, no.1, pp.9-22, 2008 (SCI-Expanded)
- XXII. **Prediction of uniaxial compressive strength of sandstones using petrography-based models**
Zorlu K., GÖKÇEOĞLU C., OCAKOĞLU F., NEFESLİOĞLU H. A., Acikalin S.
ENGINEERING GEOLOGY, vol.96, no.3-4, pp.141-158, 2008 (SCI-Expanded)
- XXIII. **Landslide susceptibility mapping for a part of tectonic Kelkit Valley (Eastern Black Sea region of Turkey)**
NEFESLİOĞLU H. A., DUMAN T. Y., DURMAZ S.
GEOMORPHOLOGY, vol.94, no.3-4, pp.401-418, 2008 (SCI-Expanded)
- XXIV. **Back-analysis of the source of the 1956 Eskisehir Earthquake using attenuation equation and damage data**
OCAKOGLU F., ACIKALIN S., GOKCEOGLU C., NEFESLİOĞLU H. A., SONMEZ H.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.66, no.3, pp.353-360, 2007 (SCI-Expanded)
- XXV. **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., NEFESLİOĞLU H. A.
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.7, no.5, pp.557-570, 2007 (SCI-Expanded)
- XXVI. **Application of logistic regression for landslide susceptibility zoning of Cekmece Area, Istanbul, Turkey**
DUMAN T. Y., CAN T., GOKCEOGLU C., NEFESLİOĞLU H. A., SONMEZ H.
ENVIRONMENTAL GEOLOGY, vol.51, no.2, pp.241-256, 2006 (SCI-Expanded)
- XXVII. **Estimating the uniaxial compressive strength of a volcanic bimrock**
SONMEZ H., GOKCEOGLU C., Medley E. W., TUNCAY E., NEFESLİOĞLU H. A.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.43, no.4, pp.554-561, 2006 (SCI-Expanded)
- XXVIII. **Indirect determination of weighted joint density (wJd) by empirical and fuzzy models: Supren (Eskisehir, Turkey) marbles**
NEFESLİOĞLU H. A., GOKCEOGLU C., SONMEZ H.
ENGINEERING GEOLOGY, vol.85, no.3-4, pp.251-269, 2006 (SCI-Expanded)
- XXIX. **Estimation of rock modulus: For intact rocks with an artificial neural network and for rock masses**

with a new empirical equation

SONMEZ H., GOKCEOGLU C., NEFESLİOĞLU H. A., KAYABASI A.

INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.43, no.2, pp.224-235, 2006 (SCI-Expanded)

- XXX. **Susceptibility assessments of shallow earthflows triggered by heavy rainfall at three catchments by logistic regression analyses**
CAN T., NEFESLİOĞLU H. A., GOKCEOGLU C., SONMEZ H., DUMAN T.
GEOMORPHOLOGY, vol.72, no.1-4, pp.250-271, 2005 (SCI-Expanded)
- XXXI. **The 17 March 2005 Kuzulu landslide (Sivas, Turkey) and landslide-susceptibility map of its near vicinity**
GOKCEOGLU C., SONMEZ H., NEFESLİOĞLU H. A., DUMAN T., CAN T.
ENGINEERING GEOLOGY, vol.81, no.1, pp.65-83, 2005 (SCI-Expanded)
- XXXII. **Determination of wjd on rock exposures including wide spaced joints**
SONMEZ H., NEFESLİOĞLU H. A., GOKCEOGLU C.
ROCK MECHANICS AND ROCK ENGINEERING, vol.37, no.5, pp.403-413, 2004 (SCI-Expanded)
- XXXIII. **An approach to determine the weathering characteristics of discontinuities**
NEFESLİOĞLU H. A., GOKCEOGLU C., SONMEZ H.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.41, no.3, pp.387-388, 2004 (SCI-Expanded)
- XXXIV. **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, vol.2773, pp.1052-1057, 2003 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Yolcular, Mutki ve Maden Kireçtaşlarının (Bitlis) Mermer İşletmeciliği Açısından Değerlendirilmesi**
LEVENTELİ Y., NEFESLİOĞLU H. A., GÖKSU A. E.
Türkiye 9. Uluslararası Mermer ve Doğaltas Kongresi ve Sergisi, Antalya, Turkey, 13 - 15 December 2017, pp.623-630
- II. **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, Spain, 10 - 12 June 2015, vol.9094, pp.549-560
- III. **A Decision Support System Suggestion for the Optimum Railway Route Selection**
GÖKÇEOĞLU C., NEFESLİOĞLU H. A., TANYILDIZ N.
12th International IAEG Congress, Torino, Italy, 15 - 19 September 2014, pp.331-334
- IV. **Determination of the Shore Edge Line at Kundu (Antalya, Turkey)**
GÖKÇEOĞLU C., NEFESLİOĞLU H. A., AKGÜN A., TÜRER D., TEMİMHAN M.
10th International Conference on the Mediterranean Coastal Environment, Rhodes, Greece, 25 - 29 October 2011, pp.221-223
- V. **Change detection of structures in the earthquake hazard zoning map of Eskisehir city, Turkey, by using satellite images**
NEFESLİOĞLU H. A., TUN M., AYDAY C., GOKTAN R.
2nd GRS/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas, Berlin, Germany, 22 - 23 May 2003, pp.177-181

Metrics

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