

Prof. HAKAN KARSLI

Personal Information

Office Phone: [+90 462 377 2020](tel:+904623772020)

Fax Phone: [+90 462 325 7405](tel:+904623257405)

Web: <https://avesis.ktu.edu.tr//hkarsli>

International Researcher IDs

ORCID: 0000-0002-7758-1363

Publons / Web Of Science ResearcherID: AAR-2154-2020

ScopusID: 55927104600

Yoksis Researcher ID: 12493

Research Areas

Geophysical Engineering, Applied Geophysics, Search Seismology, Engineering and Technology

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Seismic modeling of complex hydrocarbon traps in shot domain and data processing to obtain stack-migration sections**
BOĞAZKESEN Ş., KARSLI H.
Petroleum Science and Technology, 2025 (SCI-Expanded)
- II. **Subsurface characterization by active and passive source geophysical methods after the 06 February 2023 earthquakes in Turkey**
Karslı H., Babacan A. E., Akin Ö.
Natural Hazards, vol.120, no.6, pp.5257-5286, 2024 (SCI-Expanded)
- III. **An assessment of seismicity and near surface geophysical characteristics of potential solid waste landfill sites in the Eastern Black Sea Region of Turkiye**
Karslı H., Babacan A. E., Sayıl N. L., Çoban K. H., Akin Ö.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.31, no.9, pp.14156-14177, 2024 (SCI-Expanded)
- IV. **Picking of first arrival times on noisy ultrasonic S-wave signals for concrete and rock materials**
BABACAN A. E., KARSLI H., ŞENKAYA M.
Acta Geodaetica et Geophysica, vol.58, no.4, pp.631-648, 2023 (SCI-Expanded)
- V. **Investigation of the Relationship among Fault Types, Focal Depths, and Ionospheric TEC Anomalies before Large Earthquakes between 2000 and 2020**
Ulukavak M., YALÇINKAYA M., Kayikci E. T., Ozturk S., KANDEMİR R., KARSLI H.
JOURNAL OF SURVEYING ENGINEERING, vol.148, no.3, 2022 (SCI-Expanded)
- VI. **Combining ground-penetrating radar sections with different antenna frequencies including time-frequency domain noise suppression filters**
ALEMDAĞ H., ŞEREN A., KARSLI H.
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- VII. **CONTRIBUTION OF INVERTED SEISMIC DATA. IN EXTRACTING ATTRIBUTES TO CHARACTERIZE PLIOCENE AGED CHANNEL LOCATED OFF-SHORE THE NILE DELTA, EGYPT**
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JOURNAL OF SEISMIC EXPLORATION, vol.27, no.1, pp.49-56, 2018 (SCI-Expanded)

- VIII. **Post-stack high-resolution deconvolution using Cauchy norm regularization with FX filter weighting**
 KARSLI H., GUNAY R., SENKAYA M.
 ARABIAN JOURNAL OF GEOSCIENCES, vol.10, no.24, 2017 (SCI-Expanded)
- IX. **A Semi-Automatic Approach to Identify First Arrival Time: the Cross-Correlation Technique (CCT)**
 SENKAYA M., KARSLI H.
 EARTH SCIENCES RESEARCH JOURNAL, vol.18, no.2, pp.107-113, 2014 (SCI-Expanded)
- X. **Efficiency of complex trace analysis to attenuate ground-roll noise from seismic data**
 Kahrizi A., Emdadi M., KARSLI H.
 JOURNAL OF APPLIED GEOPHYSICS, vol.106, pp.50-59, 2014 (SCI-Expanded)
- XI. **A procedure to reduce side lobes of reflection wavelets: A contribution to low frequency information**
 KARSLI H., DONDURUR D.
 JOURNAL OF APPLIED GEOPHYSICS, vol.96, pp.107-118, 2013 (SCI-Expanded)
- XII. **Swell Noise Suppression by Wiener Prediction Filter, Journal of Applied Geophysics**
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- XIII. **Swell Noise Suppression by Wiener Prediction Filter**
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- XIV. **An application of the autoregressive extrapolation technique to enhance deconvolution results: a 2D marine data example**
 Karsli H.
 GEOPHYSICAL PROSPECTING, vol.59, no.1, pp.56-65, 2011 (SCI-Expanded)
- XV. **Application of the normalized total gradient (NTG) method to calculate envelope of seismic reflection signals**
 KARSLI H., BAYRAK Y.
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- XVI. **Properties of the Aftershock Sequences of the 2003 Bingöl, MD = 6.4, (Turkey) Earthquake**
 Öztürk S., Çınar H., Bayrak Y., KARSLI H., Daniel G.
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- XVII. **Properties of the aftershock sequences of the 2003 Bingol, M-D=6.4, (Turkey) earthquake**
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- XVIII. **Further improvement of temporal resolution of seismic data by autoregressive (AR) spectral extrapolation**
 Karsli H.
 JOURNAL OF APPLIED GEOPHYSICS, vol.59, no.4, pp.324-336, 2006 (SCI-Expanded)
- XIX. **Application of Complex Trace Analysis to Seismic Data for Random Noise Suppression and Temporal Resolution Improvement**
 KARSLI H., Dondurur D., Günay Ç.
 GEOPHYSICS, no.71, 2006 (SCI-Expanded)
- XX. **Application of complex-trace analysis to seismic data for random-noise suppression and temporal resolution improvement**
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- XXI. **Further Improvement of Temporal Resolution of Seismic Data by Autoregressive (AR) Spectral Extrapolation**
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- XXII. **Using the Wiener-Levinson algorithm to suppress ground-roll**
 KARSLI H., Bayrak Y.

- JOURNAL OF APPLIED GEOPHYSICS, vol.55, pp.187-197, 2004 (SCI-Expanded)
- XXIII. **Sismik Yığma İzlerinin Karmaşık İz Analizi İle Ayrımlılık Açısından Değerlendirilmesi**
KARSLI H.
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- XXIV. **F-K filtering using the Hartley transform**
Gelisli K., Karsh H.
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KARSLI H.
ANAS Transactions, Earth Sciences, pp.14-17, 2023 (Scopus)
- II. **Modeling of the complex hydrocarbon traps by the shot domain acoustic finite difference method and data-processing**
BOĞAZKESEN Ş., KARSLI H.
Bulletin of the Mineral Research and Exploration, vol.168, pp.93-109, 2022 (ESCI)
- III. **Investigation of soil structure in Uzungöl settlement area by Shallow Seismic Methods**
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- V. **Ofset Bağımlı Önkestirim Dekonvolüsyonu**
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- VI. **Sismik Kırılma Verilerinde İlk Varış Zamanlarının Çapraz İlişki Yöntemi Kullanılarak Belirlenmesi**
Şenkaya M., KARSLI H.
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- VII. **Sismik Kırılma Verilerinde İlk Varış Zamanlarının Çapraz İlişki Yöntemi Kullanılarak Belirlenmesi**
ŞENKAYA M., KARSLI H.
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- VIII. **Ground-roll attenuation based on Wiener filtering and benefits of time-frequency imaging**
KARSLI H., BAYRAK Y.
The Leading Edge, vol.1, no.1, pp.206-209, 2008 (Peer-Reviewed Journal)
- IX. **Ground roll attenuation based on Wiener filtering and benefits of time-frequency imaging, Leading Edge**
KARSLI H., Bayrak Y.
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- X. **Interpretation of magnetic anomalies on covered fields using normalized full gradient method**
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- XI. **Application of Hartley transform to Gravity data of Lower Kur-Talish Regions in Azerbaijan**
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Geophysical News in Azerbaijan, no.5, pp.14-21, 1998 (Peer-Reviewed Journal)

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- I. **Eartquake Hazards of Eastern Blacksea and Review on the General Seismicity**
Karslı H.
in: Eastern Blacksea Natural Environmental Studies , Dilek BEYAZLI,Müberra PULATKAN,Seda ÖZLÜ, Editor, Livre de Lyon, Trabzon, pp.40-66, 2021
- II. **Mühendislik Amaçlı Problemlerin Çözümünde Sismik Yansıma Yöntemi: Veri Toplama-İşleme-Yorumlama**
KARSLI H.
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- III. **Heyelan İncelemelerinde Jeofizik Yöntemler ve Uygulama Örnekleri**
KARSLI H.
in: PROF DR ALİ KEÇELİ JEOFİZİK JEOTEKNİK ÇALIŞTAYIBİLDİRİLER KİTABI, Osman UYANIK, Editor, TMMOB JEOFİZİK MÜHENDİSLERİ ODASI, Ankara, pp.51-60, 2015
- IV. **Jeofizikte Veri İşlem-1: Olasılık ve İstatistik**
KARSLI H.
Karadeniz Teknik Üniversitesi Yayınları, Trabzon, 2010

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Sismik Düşey Ayrımlılığının Artırılmasında Kepstral-Kısa Zaman Fourier Dönüşümünün Kullanımı**
ÖZCAN E., KARSLI H.
21. Türkiye Jeofizik Kongre ve Sergisi, Ankara, Turkey, 16 - 18 October 2024, (Summary Text)
- II. **Determination of the basement upper surface of the Archangelsky Ridge using gravity data**
Karslı H.
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech , Ankara, Turkey, 15 - 17 December 2021, pp.180-184, (Full Text)
- III. **Information Produced From Seismic Data in Soil Investigation**
Karslı H.
3rd International Turkish World Engineering and Science Congress, Ankara, Turkey, 22 - 24 October 2021, pp.1-4, (Full Text)
- IV. **Integrated Geophysical Applications in Landslide Investigation: The Example of Işıklar Quarter (Maçka-Trabzon) LAndslide**
Karslı H.
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- V. **Modeling and Imaging of Sub-basalt Hydrocarbon Bearing Structures with Finite Difference Method: Synthetic Study**
Karslı H.
6th International Conference on Earthquake Engineering and Seismology (6.ICEES), Kocaeli, Turkey, 13 - 15 October 2021, pp.481-491, (Full Text)
- VI. **Modeling of Hydrocarbon Trap Types Developing in Complex Geological Environments by Exploding Reflector Method**
Karslı H.
International Online Conferences On Engineering and Natural Sciences (IOCENS'21), Gümüşhane, Turkey, 5 - 07 July 2021, pp.194, (Summary Text)
- VII. **FARKLI FREKANSLI AYNI HATTAKİ YER RADARI VERİLERİNİN BİRLEŞTİRİLMESİ VE BU VERİ GÖRÜNTÜSÜNÜN İYİLEŞTİRİLMESİ**
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- VIII. **PERMAFROST ALANLARDA YÜZYEY SULARININ AKTİF TABAKAYA ETKİLERİ: BARTON YARIMADASI ÖRNEĞİ (KING GEORGE ADASI/BATI ANTARKTİKA)**
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4. ULUSAL KUTUP BİLİMLERİ ÇALIŞTAYI, Kocaeli, Turkey, 22 October 2020, pp.187, (Summary Text)
- IX. **Spectral analaysis of acceleration records for blats in Yalıncak town of Trabzon**
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- X. **Sismik Veriden Ground Roll Kestirimi ve Süzülmesi (Ground Roll Estimation and Filtering From Seismic Data)**
KARSLI H., BAYRAK Y.
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- XI. **The calculation of more resoluted and smoothed envelope traces by normalized total gradient**
KARSLI H., BAYRAK Y.
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- XII. **Aletsel Dönem Deprem Kataloğu Kullanılarak Türkiye İçin Hesaplanan Arias Şiddeti Haritaları**
BAYRAK Y., ÇINAR H., ÖZTÜRK S., KARSLI H.
6. Ulusal Deprem Konferansı, İstanbul, Turkey, vol.2, pp.425, (Full Text)
- XIII. **Farklı Sismik Bölgeler Dikkate Alınarak Türkiye'deki Deprem Tehlikesi Çalışmalarında Kullanılabilecek Homojen Deprem Katoloğunun Hazırlanması**
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6. Ulusal Deprem Konferansı, İstanbul, Turkey, vol.2, pp.347, (Full Text)
- XIV. **A Ground-roll attenuation technique based on Wiener filtering**
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- XV. **Işıklar (Trabzon-Mağka) Heyelan Alanının Anatomisi**
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- XVI. **KAŞÜSTÜ BELDESİNİN (YOMRA, TRABZON) ZEMİN KARAKTERİNİNSİSMİK VE MİKROTREMÖR OLÇÜMLERİ İLE GENELDEĞERLENDİRİLMESİ**
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2. ULUSLARARASI TÜRK DÜNYASI MÜHENDİSLİK VE FEN BİLİMLERİ KONGRESİ, Antalya, Turkey, 7 - 10 November 2019, (Full Text)
- XVII. **General evaluation of soil character of Kaşüstü Resort (Yomra, Trabzon) with seismic and microtremor surveyings**
KARSLI H., BABACAN A. E., ŞENKAYA M.
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- XVIII. **Model based determination of the fundamental dispersion curve from multi-channel surface wave data**
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- XIX. **Modeling of Hydrocarbon Traps in Complex Geological Environments by Acoustic Finite Difference Method: Example of Anticline**
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- XX. **High Resolution Reflectivity Inversion with Cauchy Regularization and Acoustic Impedance Conversion**
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- XXI. **Preliminary results of Integrated Geophysical Surveying in an active landslide in İşiklar-Trabzon, Turkey**
Şenkaya M., Babacan A. E., Karşlı H.
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- XXII. **Effects of Physical and Acquisition Parameters on Fundamental Dispersion Curve in MASW Method**
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- XXIII. **Permafrost of Barton Peninsula: Surveys by Seismic Tomography, Active Surface Waves and Microtremors**
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- XXIV. **IMPROVED FIRST ARRIVAL PICKING OF NOISY ULTRASONIC SIGNAL**
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- XXV. **Extending Spectral Band of Seismic Data by the Cepstral Short Time Fourier Transform**
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- XXVI. **Importance of Filtering Without Surgical Mute in Seismic Data Processing**
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- XXVII. **High Resolution Aeromagnetic (HRAM) Basement Imaging of Off-Shore Gulf of Suez Prospect**
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- XXVIII. **Geophysical Engineering Applications in Preparing the Settlement Suitability Maps: Trabzon City-Ortahisar District Example**
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- XXIX. **Determining of Lineaments in the Shamakhy-Gobustan and Absheron Areas Using Gravity Data**
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- XXX. **Combination of Fourier Transform and Cepstrum Analysis to Improve the Vertical Resolution of Seismic Data**
KARSLI H., ŞENKAYA M.
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- XXXI. **Deprem Öncesi İyonosferik Toplam Elektron İçeriği Değişimleri ile Deprem İzlenebilirliğinin İncelenmesi Projesi: Ara Sonuçlar**
Yalçınkaya M., Tanır Kayıkçı E., Ulukavak M., Öztürk S., Kandemir R., Karşlı H.

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- XXXII. **Arazide ve Laboratuvara yapılan sismik ölçümelerle kayaç sökülebilirliğinin belirlenmesi: Trabzon ili örneği**
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- XXXIV. **İyonosferik TEC Değişimleri ile Deprem İzlenebilirliğinin İncelenmesi**
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- XXXVIII. **A Comparison Between Empirical Formulas And Impedance Ratio For The Calculation Of Soil Amplification: Synthetic And Real Cases**
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- XXXIX. **Assessment Of Seismic Crosshole Tomography And Testing Surveys In Site Characterization Of High-Rise Building Along Shore Line**
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- XL. **Improving The Temporal Resolution Of Seismic Data By Combination Of Short Time Fourier Transform And Cepstrum Analysis**
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- XLI. **Assessment of Seismic Crosshole Tomography and Testing Surveys in Site Characterization of High-rise Building along Shore Line**
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- XLII. **Geophysical Investigation of Ground Water Hazards in Giza Pyramids and Sphinx Using Electrical Resistivity Tomography and Ground Penetrating Radar: A Case Study**
Mahmoud S., Essa K., SAYIL N. L., Youssef M., Diab Z., KARSLI H.
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- XLIII. **Seismic Impedance Inversion Using Cauchy Norm Regularization**
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- XLIV. Joint Inversion of MSW and VES Data For Site Classification in Trabzon Urban Area**
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- XLV. Investigation of Soil structure in Uzungöl Settlement Area By Shallow Seismic Methods**
KARSLI H., ŞENKAYA G., ŞENKAYA M., GÜNEY R.
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- XLVI. Comparison of soil amplification calculations using Vs30 and impedance ratio**
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- XLVII. A Comparison of Post stack Results after Filtering of Harmonic Noise Using Two Filter Methods**
KARSLI H., DONDURUR D., Güney R.
EAGE Near Surface Geoscience 2016-Second Applied Marine Geophysics Conference, Barcelona, Spain, 4 - 08 September 2016, (Full Text)
- XLVIII. TARİHSEL BİR HEYELANIN BİRİKTİRİDİĞİ MALZEMENİN YAPISAL VE JEOTEKNİK ÖZELLİKLERİNİN SİĞ SİSMİK YÖNTEMLERLE İNCELENMESİ TRABZON UZUNGÖL ÖRNEĞİ**
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- KARSLI H., TUBITAK Project, Batı Karadeniz Kefken Açıkları Kıtasal Şelfinin Morfolojik ve Sismo-akustik Yapısı, 2015 - 2018

Metrics

- Publication: 161
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Non Academic Experience

- Karadeniz Teknik Üniversitesi, Profösör
 Karadeniz Teknik Üniversitesi, Doçent
 Karadeniz Teknik Üniversitesi, Yardımcı Doçent
 Bayındırlık İl Müdürlüğü-BAYBURT, Yüksek Mühendis
 Karadeniz Teknik Üniversitesi, Araştırma Görevlisi