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Research Areas

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Subsurface characterization by active and passive source geophysical methods after the 06 February 2023 earthquakes in Turkey**
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- II. **An assessment of seismicity and near surface geophysical characteristics of potential solid waste landfill sites in the Eastern Black Sea Region of Turkiye**
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- III. **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)
- IV. **Investigation of the Relationship among Fault Types, Focal Depths, and Ionospheric TEC Anomalies before Large Earthquakes between 2000 and 2020**
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- V. **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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- VI. **CONTRIBUTION OF INVERTED SEISMIC DATA. IN EXTRACTING ATTRIBUTES TO CHARACTERIZE PLIOCENE AGED CHANNEL LOCATED OFF-SHORE THE NILE DELTA, EGYPT**
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- VII. **Post-stack high-resolution deconvolution using Cauchy norm regularization with FX filter weighting**
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- VIII. **A Semi-Automatic Approach to Identify First Arrival Time: the Cross-Correlation Technique (CCT)**

- ŞENKAYA M., KARSLI H.
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- IX. **Efficiency of complex trace analysis to attenuate ground-roll noise from seismic data**
Kahrizi A., Emdadi M., KARSLI H.
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- X. **A procedure to reduce side lobes of reflection wavelets: A contribution to low frequency information**
KARSLI H., DONDURUR D.
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- XI. **Swell Noise Suppression by Wiener Prediction Filter, Journal of Applied Geophysics**
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- XII. **Swell Noise Suppression by Wiener Prediction Filter**
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- XIII. **An application of the autoregressive extrapolation technique to enhance deconvolution results: a 2D marine data example**
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- XIV. **Application of the normalized total gradient (NTG) method to calculate envelope of seismic reflection signals**
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- XV. **Properties of the Aftershock Sequences of the 2003 Bingöl, MD = 6.4, (Turkey) Earthquake**
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- XVII. **Further improvement of temporal resolution of seismic data by autoregressive (AR) spectral extrapolation**
Karsli H.
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- XVIII. **Application of Complex Trace Analysis to Seismic Data for Random Noise Suppression and Temporal Resolution Improvement**
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- XXI. **Using the Wiener-Levinson algorithm to suppress ground-roll**
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- XXII. **Sismik Yığma İzlerinin Karmaşık İz Analizi İle Ayrımlılık Açısından Değerlendirilmesi**
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- 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**
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- VIII. **Ground-roll attenuation based on Wiener filtering and benefits of time-frequency imaging**
KARSLI H., BAYRAK Y.
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- IX. **Ground roll attenuation based on Wiener filtering and benefits of time-frequency imaging, Leading Edge**
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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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- I. **Eartquake Hazards of Eastern Blacksea and Review on the General Seismicity**

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in: Eastern Blacksea Natural Environmental Studies , Dilek BEYAZLI,Müberra PULATKAN,Seda ÖZLÜ, Editor, Livre

de Lyon, Trabzon, pp.40-66, 2021

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Tmmob Jeofizik Mühendisleri Odası, Ankara, 2016

III. Heyelan İncelemelerinde Jeofizik Yöntemler ve Uygulama Örnekleri

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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

Refereed Congress / Symposium Publications in Proceedings

I. Determination of the basement upper surface of the Archangelsky Ridge using gravity data

Karşlı H.

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II. Information Produced From Seismic Data in Soil Investigation

Karşlı H.

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III. Integrated Geophysical Applications in Landslide Investigation: The Example of Işıklar Quarter (Maçka-Trabzon) Landslide

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IV. Modeling and Imaging of Sub-basalt Hydrocarbon Bearing Structures with Finite Difference Method: Synthetic Study

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V. Modeling of Hydrocarbon Trap Types Developing in Complex Geological Environments by Exploding Reflector Method

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VII. PERMAFROST ALANLARDA YÜZEY 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

VIII. Spectral analysis of acceleration records for blats in Yalınca town of Trabzon

BAYRAK Y., KARSLI H., ÖZTÜRK S.

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6. Ulusal Deprem Konferansı, İstanbul, Turkey, vol.2, pp.347
- XII. **The calculation of more resolved and smoothed envelope traces by normalized total gradient**
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- XIII. **Sismik Veriden Ground Roll Kestirimi ve Süzülmesi (Ground Roll Estimation and Filtering From Seismic Data)**
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- XIV. **Işıklar (Trabzon-Maçka) Heyelan Alanının Anatomisi**
Şenkaya M., Babacan A. E., Karşlı H.
73. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 6 - 10 April 2020, pp.1-2
- XV. **KAŞÜSTÜ BELDESİNİN (YOMRA, TRABZON) ZEMİN KARAKTERİNİNİSİSMİK VE MİKROTREMÖR ÖLÇÜMLERİ İLE GENELDEĞERLENDİRİLMESİ**
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- XVI. **General evaluation of soil character of Kaşüstü Resort (Yomra, Trabzon) with seismic and microtremor surveyings**
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- XVII. **Model based determination of the fundamental dispersion curve from multi-channel surface wave data**
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- XVIII. **Modeling of Hydrocarbon Traps in Complex Geological Environments by Acoustic Finite Difference Method: Example of Anticline**
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- XIX. **High Resolution Reflectivity Inversion with Cauchy Regularization and Acoustic Impedance Conversion**
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- XX. **Preliminary results of Integrated Geophysical Surveying in an active landslide in Işıklar-Trabzon, Turkey**
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- XXIII. **IMPROVED FIRST ARRIVAL PICKING OF NOISY ULTRASONIC SIGNAL**
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- XXIV. **Importance of Filtering Without Surgical Mute in Seismic Data Processing**
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- XXV. **High Resolution Aeromagnetic (HRAM) Basement Imaging of Off-Shore Gulf of Suez Prospect**
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- XXVI. **Extending Spectral Band of Seismic Data by the Cepstral Short Time Fourier Transform**
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- XXVIII. **Geophysical Engineering Applications in Preparing the Settlement Suitability Maps: Trabzon City-Ortahisar District Example**
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- XXX. **Deprem Öncesi İyonosferik Toplam Elektron İçeriği Değişimleri İle Deprem İzlenebilirliğinin İncelenmesi Projesi: Ara Sonuçlar**
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- XXXI. **Arazide ve Laboratuvarda yapılan sismik ölçümlerle kayaç sökülebilirliğinin belirlenmesi: Trabzon ili örneği**
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- XXXIII. **İyonosferik TEC Değişimleri İle Deprem İzlenebilirliğinin İncelenmesi**
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- XXXVI. **Mathematical Transform Methods in Seismic Data Processing**
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- XXXVII. **A Comparison Between Empirical Formulas And Impedance Ratio For The Calculation Of Soil Amplification: Synthetic And Real Cases**
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- XXXVIII. **Improving The Temporal Resolution Of Seismic Data By Combination Of Short Time Fourier Transform And Cepstrum Analysis**
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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. **Geophysical Investigation of Ground Water Hazards in Giza Pyramids and Sphinx Using Electrical Resistivity Tomography and Ground Penetrating Radar: A Case Study**
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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. **Seismic Impedance Inversion Using Cauchy Norm Regularization**
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- XLIII. **Joint Inversion of MSW and VES Data For Site Classification in Trabzon Urban Area**
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- XLIV. **Investigation of Soil structure in Uzungöl Settlement Area By Shallow Seismic Methods**
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- XLV. **Comparison of soil amplification calculations using Vs30 and impedance ratio**
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- XLVI. **A Comparison of Post stack Results after Filtering of Harmonic Noise Using Two Filter Methods**
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- XLVII. **TARİHSEL BİR HEYELANIN BİRİKTİRDİĞİ MALZEMENİN YAPISAL VEJEOTEKNİK ÖZELLİKLERİNİN SIĞ SİSMİK YÖNTEMLERLEİNCELENMESİ TRABZON UZUNGÖL ÖRNEĞİ**
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- XLVIII. **Tarihsel Bir Heyelanın Biriktirdiği Malzemenin Yapısal ve Jeoteknik Özelliklerinin Sığ Sismik Yöntemlerle İncelenmesi Trabzon Uzungöl Örneği**
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- XLIX. **Tarihsel Bir Heyelanın Biriktirdiği Malzemenin Yapısal ve Jeoteknik Özelliklerinin Sığ Sismik**

Yöntemlerle İncelenmesi: Trabzon-Uzungöl Örneği

VANLI ŞENKAYA G., KARSLI H., ŞENKAYA M., GÜNEY R.

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- L. **Spectral Domain Local Cancellation Procedure of Harmonic Noise in Seismic Data**
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