

## Prof. HAKAN KARSLI

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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**  
KARSLI H., BABACAN A. E., AKIN Ö.  
Natural Hazards, vol.120, no.6, pp.5257-5286, 2024 (SCI-Expanded)
- II. **An assessment of seismicity and near surface geophysical characteristics of potential solid waste landfill sites in the Eastern Black Sea Region of Turkiye**  
Karşlı H., Babacan A. E., Sayıl N. L., Çoban K. H., Akın Ö.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.31, no.9, pp.14156-14177, 2024 (SCI-Expanded)
- 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**  
Ulukavak M., YALÇINKAYA M., Kayikci E. T., Ozturk S., KANDEMİR R., KARSLI H.  
JOURNAL OF SURVEYING ENGINEERING, vol.148, no.3, 2022 (SCI-Expanded)
- V. **Combining ground-penetrating radar sections with different antenna frequencies including time-frequency domain noise suppression filters**  
ALEMDAĞ H., ŞEREN A., KARSLI H.  
GEOPHYSICS, vol.87, no.4, 2022 (SCI-Expanded)
- VI. **CONTRIBUTION OF INVERTED SEISMIC DATA. IN EXTRACTING ATTRIBUTES TO CHARACTERIZE PLIOCENE AGED CHANNEL LOCATED OFF-SHORE THE NILE DELTA, EGYPT**  
Dahroug A., Sharafeldin S. M., Morsy E., Nada H., KARSLI H.  
JOURNAL OF SEISMIC EXPLORATION, vol.27, no.1, pp.49-56, 2018 (SCI-Expanded)
- VII. **Post-stack high-resolution deconvolution using Cauchy norm regularization with FX filter weighting**  
KARSLI H., Guney R., ŞENKAYA M.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.10, no.24, 2017 (SCI-Expanded)
- VIII. **A Semi-Automatic Approach to Identify First Arrival Time: the Cross-Correlation Technique (CCT)**

- ŞENKAYA M., KARSLI H.  
EARTH SCIENCES RESEARCH JOURNAL, vol.18, no.2, pp.107-113, 2014 (SCI-Expanded)
- IX. **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)
- X. **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)
- XI. **Swell Noise Suppression by Wiener Prediction Filter, Journal of Applied Geophysics**  
KARSLI H., Dondurur D.  
JOURNAL OF APPLIED GEOPHYSICS, no.80, pp.91-100, 2012 (SCI-Expanded)
- XII. **Swell Noise Suppression by Wiener Prediction Filter**  
DONDURUR D., KARSLI H.  
JOURNAL OF APPLIED GEOPHYSICS, vol.80, pp.91-100, 2012 (SCI-Expanded)
- XIII. **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)
- XIV. **Application of the normalized total gradient (NTG) method to calculate envelope of seismic reflection signals**  
KARSLI H., BAYRAK Y.  
JOURNAL OF APPLIED GEOPHYSICS, vol.71, pp.90-97, 2010 (SCI-Expanded)
- XV. **Properties of the Aftershock Sequences of the 2003 Bingöl, MD = 6.4, (Turkey) Earthquake**  
Öztürk S., Çınar H., Bayrak Y., KARSLI H., Daniel G.  
PURE AND APPLIED GEOPHYSICS, no.165, pp.324-336, 2008 (SCI-Expanded)
- XVI. **Properties of the aftershock sequences of the 2003 Bingol, M-D=6.4, (Turkey) earthquake**  
ÖZTÜRK S., ÇINAR H., BAYRAK Y., KARSLI H., DANIEL G.  
PURE AND APPLIED GEOPHYSICS, vol.165, no.2, pp.349-371, 2008 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **Application of complex-trace analysis to seismic data for random-noise suppression and temporal resolution improvement**  
Karsli H., Dondurur D., Cifci G.  
GEOPHYSICS, vol.71, no.3, 2006 (SCI-Expanded)
- XX. **Further Improvement of Temporal Resolution of Seismic Data by Autoregressive (AR) Spectral Extrapolation**  
KARSLI H.  
JOURNAL OF APPLIED GEOPHYSICS, no.59, pp.324-336, 2006 (SCI-Expanded)
- XXI. **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)
- XXII. **Sismik Yığma İzlerinin Karmaşık İz Analizi İle Ayrımlılık Açısından Değerlendirilmesi**  
KARSLI H.  
Yerbilimleri/Hacettepe Üniversitesi Yerbilimleri Uygulama ve Araştırma Merkezi Dergisi, no.26, pp.15-26, 2002

(SCI-Expanded)

**XXIII. F-K filtering using the Hartley transform**

Gelisli K., Karsh H.

JOURNAL OF SEISMIC EXPLORATION, vol.7, no.2, pp.101-107, 1998 (SCI-Expanded)

## Articles Published in Other Journals

- I. **CONTRIBUTION OF PRESERVATION LOW FREQUENCY INFORMATION ON STACKED SECTION: EXAMPLES FROM LAND AND MARINE SEISMIC DATA**  
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**  
KARSLI H., VANLI ŞENKAYA G., ŞENKAYA M., Güney R.  
EURASIAN JOURNAL OF SOIL SCIENCE, vol.6, no.2, pp.134-143, 2017 (Peer-Reviewed Journal)
- IV. **Investigation of soil structure in Uzungöl settlement area by Shallow Seismic Methods**  
KARSLI H., VANLI ŞENKAYA G., ŞENKAYA M., Güney R.  
EURASIAN JOURNAL OF SOIL SCIENCE, vol.6, no.2, pp.134-143, 2017 (Peer-Reviewed Journal)
- V. **Ofset Bağımlı Önkestirim Dekonvolüsyonu**  
Güney R., KARSLI H., Dondurur D.  
Jeofizik, no.17, pp.3-12, 2012 (Peer-Reviewed Journal)
- VI. **Sismik Kırılma Verilerinde İlk Varış Zamanlarının Çapraz İlişki Yöntemi Kullanılarak Belirlenmesi**  
Şenkaya M., KARSLI H.  
Jeofizik, no.16, pp.31-41, 2012 (Peer-Reviewed Journal)
- VII. **Sismik Kırılma Verilerinde İlk Varış Zamanlarının Çapraz İlişki Yöntemi Kullanılarak Belirlenmesi**  
ŞENKAYA M., KARSLI H.  
Jeofizik, no.16, pp.31-41, 2012 (Peer-Reviewed Journal)
- 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.  
Leading Edge, vol.27, pp.206-209, 2008 (Scopus)
- X. **Interpretation of magnetic anomalies on covered fields using normalized full gradient method**  
KARSLI H., Aydın A., Kadirov F.  
Geophysical News in Azerbaijan, pp.34-40, 2002 (Peer-Reviewed Journal)
- XI. **Application of Hartley transform to Gravity data of Lower Kur-Talish Regions in Azerbaijan**  
Kadirov F., KARSLI H., Kerimov K.  
Geophysical News in Azerbaijan, no.5, pp.14-21, 1998 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Eartquake Hazards of Eastern Blacksea and Review on the General Seismicity**

Karsh 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.

Tmmob Jeofizik Mühendisleri Odası, Ankara, 2016

**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

## **Refereed Congress / Symposium Publications in Proceedings**

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

Karşlı H.

3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech , Ankara, Turkey, 15 - 17 December 2021, pp.180-184

**II. Information Produced From Seismic Data in Soil Investigation**

Karşlı H.

3rd International Turkish World Engineering and Science Congress, Ankara, Turkey, 22 - 24 October 2021, pp.1-4

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

Karşlı H.

3rd International Turkish World Engineering and Science Congress, Ankara, Turkey, 22 - 24 October 2021, pp.5-8

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

Karşlı H.

6th International Conference on Earthquake Engineering and Seismology (6.ICEES), Kocaeli, Turkey, 13 - 15 October 2021, pp.481-491

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

Karşlı H.

International Online Conferences On Engineering and Natural Sciences (IOCENS'21), Gümüşhane, Turkey, 5 - 07 July 2021, pp.194

**VI. FARKLI FREKANSLI AYNI HATTAKİ YER RADARI VERİLERİNİN BİRLEŞTİRİLMESİ VE BU VERİ GÖRÜNTÜSÜNÜN İYİLEŞTİRİLMESİ**

Alemdağ H., Şeren A., Karşlı H.

INTERNATIONAL ONLINE CONFERENCES ON ENGINEERING AND NATURAL SCIENCES IOCENS'21, Gümüşhane, Turkey, 5 - 07 June 2021, pp.204

**VII. PERMAFROST ALANLARDA YÜZEY SULARININ AKTİF TABAKAYA ETKİLERİ: BARTON YARIMADASI ÖRNEĞİ (KING GEORGE ADASI/BATI ANTARKTİKA)**

Şenkaya M., Gürbüz A., Kwansoo K., Lee J., Karşlı H.

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.

The 4th Congress of the Balkan Geophysical Society, Romania, vol.1, no.1, pp.468

**IX. 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

- X. **A Ground-roll attenuation technique based on Wiener filtering**  
KARSLI H., BAYRAK Y.  
(Seismic Noise: Origin, Prevention, Mitigation, Utilization) SEG Summer Research Workshop, Antalya, Turkey, vol.1, no.1, pp.1
- XI. **Farklı Sismik Bölgeler Dikkate Alınarak Türkiye'deki Deprem Tehlikesi Çalışmalarında Kullanılabilecek Homojen Deprem Katoloğunun Hazırlanması**  
ÖZTÜRK S., BAYRAK Y., KARSLI H., ÇINAR H.  
6. Ulusal Deprem Konferansı, İstanbul, Turkey, vol.2, pp.347
- XII. **The calculation of more resolved and smoothed envelope traces by normalized total gradient**  
KARSLI H., BAYRAK Y.  
The 16th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, vol.1, no.1, pp.184
- XIII. **Sismik Veriden Ground Roll Kestirimi ve Süzülmesi (Ground Roll Estimation and Filtering From Seismic Data)**  
KARSLI H., BAYRAK Y.  
The 17th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, vol.1, no.1, pp.137
- 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**  
KARSLI H., BABACAN A. E., ŞENKAYA M.  
2. ULUSLARARASI TÜRK DÜNYASI MÜHENDİSLİK VE FEN BİLİMLERİ KONGRESİ, Antalya, Turkey, 7 - 10 November 2019
- XVI. **General evaluation of soil character of Kaşüstü Resort (Yomra, Trabzon) with seismic and microtremor surveyings**  
KARSLI H., BABACAN A. E., ŞENKAYA M.  
2nd International Turkish World Engineering and Science Congress in Antalya, Antalya, Turkey, 7 - 10 November 2019, pp.310-317
- XVII. **Model based determination of the fundamental dispersion curve from multi-channel surface wave data**  
KARSLI H., ŞENKAYA M.  
2nd International Turkish World Engineering and Science Congress, Antalya, Turkey, 7 - 10 November 2019
- XVIII. **Modeling of Hydrocarbon Traps in Complex Geological Environments by Acoustic Finite Difference Method: Example of Anticline**  
BOĞAZKESEN Ş., KARSLI H.  
VI. International Earthquake Symposium Kocaeli 2019 (IESKO-2019), Kocaeli, Turkey, 25 - 27 September 2019, pp.787-793
- XIX. **High Resolution Reflectivity Inversion with Cauchy Regularization and Acoustic Impedance Conversion**  
KARSLI H.  
10th Congress of the Balkan Geophysical Society, Varna, Bulgaria, 18 - 22 September 2019, vol.2019, pp.1-5
- XX. **Preliminary results of Integrated Geophysical Surveying in an active landslide in Işıklar-Trabzon, Turkey**  
Şenkaya M., Babacan A. E., Karşlı H.  
10th Congress of the Balkan Geophysical Society, Albena, Bulgaria, 18 - 22 September 2019, pp.1-5
- XXI. **Effects of Physical and Acquisition Parameters on Fundamental Dispersion Curve in MASW Method**  
KARSLI H., ŞENKAYA M.  
25th European Meeting of Environmental and Engineering Geophysics, LAHEY, Netherlands, 08 September 2019 - 12 September 2012, vol.2019, pp.1-5
- XXII. **Permafrost of Barton Peninsula: Surveys by Seismic Tomography, Active Surface Waves and**

## Microtremors

Şenkaya M., Kwansoo K., Lee J., Karşlı H.

13th International Symposium on Antarctic Earth Sciences , Incheon, South Korea, 22 - 26 July 2019, pp.109

### XXIII. IMPROVED FIRST ARRIVAL PICKING OF NOISY ULTRASONIC SIGNAL

BABACAN A. E., ŞENKAYA M., KARSLI H.

9th International Symposium on Eastern Mediterranean Geology (ISEMG 2018, Antalya, Turkey, 7 - 11 May 2018, pp.208-212

### XXIV. Importance of Filtering Without Surgical Mute in Seismic Data Processing

KARSLI H., DONDURUR D.

New Trends in Geophysics and Engineering International Symposium, 7 - 09 November 2018, pp.110-113

### XXV. High Resolution Aeromagnetic (HRAM) Basement Imaging of Off-Shore Gulf of Suez Prospect

KARSLI H., SHARFELDIN M S.

New Trends in Geophysics and Engineering International Symposium, 07 November 2012 - 09 November 2018, pp.91-93

### XXVI. Extending Spectral Band of Seismic Data by the Cepstral Short Time Fourier Transform

KARSLI H.

New Trends in Geophysics and Engineering International Symposium, 7 - 09 November 2018, pp.106-109

### XXVII. Combination of Fourier Transform and Cepstrum Analysis to Improve the Vertical Resolution of Seismic Data

KARSLI H., ŞENKAYA M.

9th International Symposium on Eastern Mediterranean Geology (ISEMG-2018), 7 - 11 May 2018, pp.269-275

### XXVIII. Geophysical Engineering Applications in Preparing the Settlement Suitability Maps: Trabzon City-Ortahisar District Example

KARSLI H., KİRİCİ M., ŞENKAYA M., YILMAZ Ç. C.

9th International Symposium on Eastern Mediterranean Geology (ISEMG-2018), 7 - 11 May 2018, pp.262-267

### XXIX. Determining of Lineaments in the Shamakhy-Gobustan and Absheron Areas Using Gravity Data

ELMAS A., KARSLI H.

9th International Symposium on Eastern Mediterranean Geology (ISEMG-2018), 7 - 11 May 2018, pp.213-216

### XXX. Deprem Öncesi İyonosferik Toplam Elektron İçeriği Değişimleri İle Deprem İzlenebilirliğinin İncelenmesi Projesi: Ara Sonuçlar

Yalçınkaya M., Tanır Kayıkçı E., Ulukavak M., Öztürk S., Kandemir R., Karşlı H.

Türkiye Ulusal Jeodezi Komisyonu (TUJK) 2018 Yılı Bilimsel Toplantısı, İzmir, Turkey, 1 - 02 November 2018

### XXXI. Arazide ve Laboratuvarda yapılan sismik ölçümlerle kayaç sökülebilirliğinin belirlenmesi: Trabzon ili örneği

KARSLI H., BABACAN A. E., ŞENKAYA M., GELİŞLİ K.

Kayamek2018:12. Bölgesel Kaya Mekaniği Sempozyumu, Trabzon, Turkey, 3 - 05 October 2018, pp.207-215

### XXXII. Arazide ve laboratuvarda yapılan sismik ölçümlerle kayaç sökülebilirliğinin belirlenmesi: Trabzon ili örneği

KARSLI H., BABACAN A. E., Şenkaya M., GELİŞLİ K.

12. Bölgesel Kaya Mekaniği Sempozyumu, TRABZON, TÜRKİYE,, Trabzon, Turkey, 3 - 05 October 2018, pp.134-137

### XXXIII. İyonosferik TEC Değişimleri İle Deprem İzlenebilirliğinin İncelenmesi

ULUKAVAK M., YALÇINKAYA M., TANIR KAYIKÇI E., ÖZTÜRK S., KANDEMİR R., KARSLI H.

Uluslararası Katılımlı Türkiye Ulusal Jeodezi ve Jeofizik Birliği (TUJJB), Bilimsel Kongresi, Dokuz Eylül Üniversitesi ve İzmir Katip Çelebi Üniversitesi, Turkey, 30 May - 02 June 2018

### XXXIV. İyonosferik TEC Değişimleri ile Deprem İzlenebilirliğinin İncelenmesi

YALÇINKAYA M., TANIR KAYIKÇI E., ULUKAVAK M., ÖZTÜRK S., KANDEMİR R., KARSLI H.

Türkiye Ulusal Jeodezi ve Jeofizik Birliği (TUJJB) Bilimsel Kongresi, İzmir, Turkey, 30 May - 02 June 2018

### XXXV. İyonosferik TEC Değişimleri ile Deprem İzlenebilirliğinin İncelenmesi

ULUKAVAK M., YALÇINKAYA M., TANIR KAYIKÇI E., ÖZTÜRK S., KANDEMİR R., KARSLI H.

Uluslararası Katılımlı Türkiye Ulusal Jeodezi Jeofizik Birliği Bilimsel Kongresi, İstanbul, Turkey, 30 May - 02 June 2018, pp.454-457

- XXXVI. **Mathematical Transform Methods in Seismic Data Processing**  
KARSLI H.  
1st International Turkish World Engineering and Science Congress, Turkey, 7 - 10 December 2017, pp.797-807
- XXXVII. **A Comparison Between Empirical Formulas And Impedance Ratio For The Calculation Of Soil Amplification: Synthetic And Real Cases**  
VANLI ŞENKAYA G., ŞENKAYA M., KARSLI H.  
9th Congress of the Balkan Geophysical Society, Antalya, Turkey, 4 - 07 December 2017
- XXXVIII. **Improving The Temporal Resolution Of Seismic Data By Combination Of Short Time Fourier Transform And Cepstrum Analysis**  
KARSLI H.  
9th Congress of the Balkan Geophysical Society, Antalya, Turkey, 5 - 09 November 2017
- XXXIX. **Assessment Of Seismic Crosshole Tomography And Testing Surveys In Site Characterization Of High-Rise Building Along Shore Line**  
SHARAFELDIN S., FECHNER T., SAYIL N. L., KARSLI H.  
9th Congress of the Balkan Geophysical Society, Antalya, Turkey, 5 - 09 November 2017
- XL. **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.  
9th Congress of the Balkan Geophysical Society, Antalya, Turkey, 5 - 09 November 2017, pp.1-5
- XLI. **Assessment of Seismic Crosshole Tomography and Testing Surveys in Site Characterization of High-rise Building along Shore Line**  
Mahmoud S., Fechner T., SAYIL N. L., KARSLI H.  
9th Congress of the Balkan Geophysical Society, Antalya, Turkey, 5 - 09 November 2017, pp.1-5
- XLII. **Seismic Impedance Inversion Using Cauchy Norm Regularization**  
KARSLI H., ODJAM D.  
79th EAGE Conference Exhibition, Proceedings, Paris, France, 12 - 15 June 2017
- XLIII. **Joint Inversion of MSW and VES Data For Site Classification in Trabzon Urban Area**  
KARSLI H., ŞENKAYA M.  
Selçuk International Scientific Conference On Applied Sciences Conference, Antalya, Turkey, 27 - 30 September 2016, vol.2, pp.281-288
- XLIV. **Investigation of Soil structure in Uzungöl Settlement Area By Shallow Seismic Methods**  
KARSLI H., ŞENKAYA G., ŞENKAYA M., GÜNEY R.  
Selçuk International Scientific Conference On Applied Sciences Conference, Antalya, Turkey, 27 - 30 September 2016, vol.1, pp.49-54
- XLV. **Comparison of soil amplification calculations using Vs30 and impedance ratio**  
VANLI ŞENKAYA G., KARSLI H., ŞENKAYA M.  
SEG Annual Meeting Dallas-2016, Dallas, United States Of America, 16 - 21 October 2016, pp.5001-5005
- XLVI. **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
- XLVII. **TARİHSEL BİR HEYELANIN BİRİKTİRDİĞİ MALZEMENİN YAPISAL VEJEOTEKNİK ÖZELLİKLERİNİN SIĞ SİSMİK YÖNTEMLERLEİNCELENMESİ TRABZON UZUNGÖL ÖRNEĞİ**  
Şenkaya Vanlı G., KARSLI H., ŞENKAYA M., Güney R.  
Uluslararası Doğal Afet ve Afet Yönetimi Sempozyumu (DAAYS'16), Karabük, Turkey, 2 - 05 March 2016, pp.550-555
- XLVIII. **Tarihsel Bir Heyelanın Biriktirdiği Malzemenin Yapısal ve Jeoteknik Özelliklerinin Sığ Sismik Yöntemlerle İncelenmesi Trabzon Uzungöl Örneği**  
Vanlı Şenkaya G., KARSLI H., ŞENKAYA M., GÜNEY R.  
Uluslararası Doğal Afetler ve Afet Yönetimi Sempozyumu-2016, 2 - 04 March 2016
- 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.

Uluslararası Doğal Afetler ve Afet Yönetimi Sempozyumu-2016, Karabük, Turkey, 2 - 04 March 2016, pp.5

- L. **Spectral Domain Local Cancellation Procedure of Harmonic Noise in Seismic Data**  
KARSLI H., Dondurur D.  
8th Congress of the Balkan Geophysical Society, Girit, Greece, 5 - 08 December 2015, pp.27204
- LI. **Imaging of Landslide Deposits around Uzungöl Lake (Trabzon-Turkey) by Refraction Tomography and MASW**  
Şenkaya Vanlı G., KARSLI H., Şenkaya M., Güney R.  
3rd International Conference on Engineering Geophysics (ICEG) Proceedings, Al Ain, United Arab Emirates, 15 - 18 November 2015, pp.50-53
- LII. **Imaging of Landslide Deposits around Uzungöl Lake (Trabzon-Turkey) by Refraction Tomography and MASW (The BEST STUDENT PAPER)**  
VANLI ŞENKAYA G., KARSLI H., ŞENKAYA M., GÜNEY R.  
International Conference on Engineering Geophysics-ICEG 2015, Al-Ain, United Arab Emirates, 15 - 18 November 2015
- LIII. **RefPick A GUI Application to Pick First Arrival Times and Data Processing on Seismic Refraction Data**  
ÇOBAN K. H., ŞENKAYA M., KARSLI H.  
8th Congress of the Balkan Geophysical Society, Chania, Greece, 5 - 08 October 2015
- LIV. **Optimization Methods for Least Squares Time Migrations, 8th Congress of the Balkan Geophysical Society**  
Güney R., KARSLI H.  
8th Congress of the Balkan Geophysical Society, Girit, Greece, 5 - 08 October 2015, pp.27195
- LV. **A GUI Application to Pick First Arrival Times and Data Processing on Seismic Refraction Data**  
Çoban H. K., Şenkaya M., KARSLI H.  
8th Congress of the Balkan Geophysical Society, Girit, Greece, 5 - 08 October 2015, pp.26749
- LVI. **Optimization Methods for Least Squares Time Migrations**  
Güney R., KARSLI H.  
8th Congress of the Balkan Geophysical Society, Chania, Greece, 5 - 08 October 2015
- LVII. **The Sensitivity Analysis as a Non-uniqueness Indicator in the Inversion of Rayleigh-wave Dispersion Curve**  
Şenkaya M., Karşı H.  
Near Surface Geoscience 2015 - 21st European Meeting of Environmental and Engineering Geophysics, Turin, Italy, 6 - 10 September 2015, pp.1-4
- LVIII. **Bir Spor Tesisinin İnşaat Alanının Farklı Jeofizik Yöntemlerle İncelenmesi**  
Kirici M., KARSLI H., Güney R., Yılmaz Ç. C.  
Ulusal Mühendislik Jeolojisi Sempozyumu-MUHHEO 2015, Trabzon, Turkey, 3 - 05 September 2015, pp.389-396
- LIX. **Trabzon-Uzungöl Beldesindeki Eski Heyelan Alanının Zemin Yapısının ve Dinamik Özelliklerinin Sığ Sismik Yöntemlerle Araştırılması**  
Şenkaya Vanlı G., KARSLI H., Şenkaya M., Güney R.  
Ulusal Mühendislik Jeolojisi Sempozyumu-MUHHEO 2015, Trabzon, Turkey, 3 - 05 September 2015, pp.145-152
- LX. **Investigation of Bedrock Topography and Soil Dynamic Parameters of Uzungöl Settlement with Shallow Seismic Methods**  
Vanlı Şenkaya G., KARSLI H., Şenkaya M., Güney R.  
77th EAGE Conference & Exhibition 2015, Madrid, Spain, 1 - 04 June 2015
- LXI. **Yığma verilerinin yüksek ayrımlı dekonvolüsyonu**  
KARSLI H., Güney R., Şenkaya M.  
The 20th International Petroleum and Natural Gas Congress and Exhibition of Turkey, Ankara, Turkey, 27 - 29 May 2015, pp.231-233
- LXII. **1D Joint Inversion of Rayleigh Fundamental Mode and Electric Sounding Curves: Synthetic Tests**  
ŞENKAYA M., KARSLI H.



Near Surface Geoscience 2014 - 20th European Meeting of Environmental and Engineering Geophysics, Atina, Greece, 14 - 18 September 2014, pp.10

- LXIII. **Enhancement of Images of Seismic Data by Histogram Equalization and Stretching Techniques**  
KARSLI H., Güney R.  
The 20th International Geophysical Congress and Exhibition of Turkey, Antalya, Turkey, 25 - 27 November 2013, pp.475-478
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KARSLI H., Şenkaya M.  
The 20th International Geophysical Congress and Exhibition of Turkey, Antalya, Turkey, 25 - 27 November 2013, pp.191-194
- LXV. **Sensitivity Analysis in Near Surface Rayleigh Wave Phase Velocities Inversion**  
KARSLI H., Şenkaya M., ŞENKAYA M.  
The 20th International Geophysical Congress and Exhibition of Turkey, Antalya, Turkey, 25 - 27 November 2013, pp.195-198
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The 20th International Geophysical Congress and Exhibition of Turkey, Antalya, Turkey, 25 - 27 November 2013, pp.145-149
- LXVII. **Joint Inversion of Fundamental Mode Rayleigh Dispersion and Vertical Electric Sounding Data: Applications on Model Data**  
ŞENKAYA M., KARSLI H.  
20th International Geophysical Congress & Exhibition of Turkey, Antalya, Turkey, 24 - 27 November 2013
- LXVIII. **Effects of Data Acquisition and Layer Parameters on Dispersion Curves in Multichannel Analysis of Surface Waves (MASW) Effects of Data Acquisition and Layer Parameters on Dispersion Curves in Multichannel Analysis of Surface Waves (MASW)**  
KARSLI H., Yazıcı G., ŞENKAYA M.  
20th International Geophysical Congress & Exhibition of Turkey, Antalya, Turkey, 24 - 27 November 2013
- LXIX. **Contribution of Simplified Surface Waveform Calculation to Separate Dispersion Curves in MASW**  
KARSLI H., ŞENKAYA M., GÜNEY R.  
7th Congress of the Balkan Geophysical Society, Tiran, Albania, 7 - 10 October 2013, pp.1
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KARSLI H., Dondurur D.  
The 19th International Petroleum and Natural Gas Congress and Exhibition of Turkey, Ankara, Turkey, 15 - 17 May 2013, pp.76-80
- LXXI. **High Resolution Deconvolution by Combining Fx Filtering and Cauchy Regularization**  
KARSLI H., GÜNEY R., ŞENKAYA M.  
International Conference & Exhibition 2 - 5 April 2012 Geosciences, Saint Petersburg, Russia, 2 - 05 April 2012, pp.11
- LXXII. **High resolution deconvolution by combining Fx filtering and Cauchy Regularization**  
KARSLI H., Recep G., Şenkaya M.  
5th Saint Petersburg International Conference and Exhibition Geosciences, Saintpetesburg, Russia, 2 - 05 April 2012, pp.102-105
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Güney R., KARSLI H.  
6th Balkan Geophysical Congress and Exhibition, Budapest, Hungary, 3 - 06 October 2011, pp.160-163
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ŞENKAYA M., KARSLI H.  
6th Congress of Balkan Geophysical Society, Budapeşte, Hungary, 3 - 06 October 2011
- LXXV. **Seismic Geotechnical Site Characterization by MASWREMI Method: Importance of Higher Modes of**

## **Rayleigh Waves**

Roma V., Tononi C., KARSLI H.

6th Balkan Geophysical Congress and Exhibition, Budapest, Hungary, 3 - 06 October 2011, pp.201-203

- LXXVI. **First Arrival Picking in Seismic Refraction Data by Cross Correlation Technique**  
ŞENKAYA M., KARSLI H.  
6th Congress of the Balkan Geophysical Society, 3 - 06 October 2011
- LXXVII. **First Arrival Picking in Seismic Refraction Data by Cross-correlation Technique**  
Şenkaya M., KARSLI H.  
6th Balkan Geophysical Congress and Exhibition, Budapest, Hungary, 3 - 06 October 2011, pp.150-154
- LXXVIII. **A procedure to Improve Low Frequency Content of a Seismic Trace by Side Lobe Reduction**  
KARSLI H., Dondurur D.  
6th Balkan Geophysical Congress and Exhibition, Budapest, Hungary, 3 - 06 October 2011, pp.140-143
- LXXIX. **Wiener Kestirim Süzgeci ile Deniz Dalgası Gürültüsünün Süzülmesi**  
KARSLI H., Dondurur D.  
The 19th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 23 - 26 November 2010, no.150, pp.180-183
- LXXX. **Ön Kestirim Dekonvolüsyonunda Etkin Parametre Seçimi**  
Güney R., KARSLI H., Dondurur D.  
The 19th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 23 - 26 November 2010, no.150, pp.171-173
- LXXXI. **Defining First Arrival Times at Seismic Refraction Data Using Correlation Method**  
ŞENKAYA M., KARSLI H.  
The 19th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 23 - 26 November 2010, pp.120-124
- LXXXII. **Sismik Kırılma Verilerinde İlk Varış Zamanlarının İlişki Yöntemi İle Belirlenmesi**  
Şenkaya M., KARSLI H.  
The 19th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 23 - 26 November 2010, no.150, pp.161-163
- LXXXIII. **High Amplitude Noise Attenuation Based on Wiener Estimation Filter**  
KARSLI H.  
72nd EGAE Congress and Exhibitions, Saintpetesrburg, Russia, 5 - 08 May 2010, pp.181-183
- LXXXIV. **Application of Autoregressive (AR) Extrapolation Technique to Enhance the Deconvolution of Seismic Data**  
KARSLI H.  
5th Balkan Geophysical Congress and Exhibition, Belgrad, Serbia And Montenegro, 10 - 16 May 2009, no.6297, pp.105-108
- LXXXV. **Time Variant Spectral Whitening Technique in Seismic Data Processing**  
Şirin T., KARSLI H., Dondurur D.  
18th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 14 - 17 October 2008, pp.61-63
- LXXXVI. **High Resolution Deconvolution with FX Filtering Constraint and Random Noise Attenuation**  
KARSLI H.  
The 18th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 14 - 17 October 2008, pp.52-55
- LXXXVII. **Sismik Kırılma Verilerinin Tomografi ve Gecikme Zamanı Yöntemleri ile Bileşik Yorumu**  
ŞENKAYA M., ÇİLLİYÜZ S., KARSLI H.  
4. Jeofizik Mühendisliği Öğrencileri Kongresi, Trabzon, Turkey, 8 - 09 November 2007, pp.22-25
- LXXXVIII. **Yerel dalga alanı ayırıştırma sayesinde Ground roll gürültüsünün süzülmesi**  
KARSLI H.  
International Eartquake Symposium, Kocaeli, Turkey, 22 - 26 October 2007, pp.80-83
- LXXXIX. **Aletsel Dönem Deprem Kataloğu Kullanılarak Türkiye İçin Hesaplanan Arias Şiddeti Haritaları**  
BAYRAK Y., ÇINAR H., ÖZTÜRK S., Karşlı H.

Altıncı Ulusal Deprem Mühendisliği Konferansı, İstanbul Teknik Üniversitesi, İstanbul, Turkey, 16 - 20 October 2007, pp.425-433

- XC. **Farklı Sismik Bölgeler Dikkate Alınarak Türkiye'deki Deprem Çalışmalarında Kullanılabilecek Homojen Deprem Kataloğunun Hazırlanması**  
ÖZTÜRK S., BAYRAK Y., Karşlı H., ÇINAR H.  
Altıncı Ulusal Deprem Mühendisliği Konferansı, İstanbul Teknik Üniversitesi, İstanbul, Turkey, 16 - 20 October 2007, pp.347-358
- XCI. **A Ground roll attenuation technique based on Wiener filtering**  
KARSLI H., Bayrak Y.  
SEG Summer Research Workshop, Antalya, Turkey, 13 - 18 May 2007, no.6
- XCII. **Spektral Ekstrapolasyon Sayesinde Dekonvolüsyon Sonuçlarının İyileştirilmesi**  
KARSLI H.  
The 17th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 13 - 18 May 2007, pp.133-136
- XCIII. **Examination of Seismic Data and Attributes by Imaging Techniques**  
KORKMAZ Z., KARSLI H.  
4th Balkan Geophysical Congress and Exhibition, Bucharest, Romania, 9 - 12 October 2005, pp.569-572
- XCIV. **The types of reflection interferences and behaviours of their instantaneous frequency attributes**  
KARSLI H.  
3rd Balkan Geophysical Congress and Exhibition, Sofya, Bulgaria, 3 - 06 June 2002, pp.4-5
- XCV. **Analysis of seismic traces by Normalized full Gradiend (NFG) method**  
Karşlı H., Gelişli K.  
Second balkan Geophysical Conference , İstanbul, Turkey, 5 - 09 July 1999, pp.4-5
- XCVI. **Filtering of seismic noise with recursive and weighted median filters**  
Gelişli K., Karşlı H., Değirmencioğlu N.  
Second National Geophysical Conference with International Participation Bulgarian Geophysical Society, Sofija, Bulgaria, 21 - 23 October 1998, pp.73
- XCVII. **Interpretation of magnetic Anomalies on Covered Fields Using Normalized Full Gradient Method**  
Aydın A., Sipahi F., Karşlı H., Gelişli K.  
Moscow'97 International Geoscience Conference&Exhibition, Moscow, Russia, 15 - 18 September 1997, pp.3
- XCVIII. **Filtering of Gravity Data Using hartley Transform in Shamaky-Apsheron (Azerbaijan) Oil and gas region**  
Kadirov F., Karşlı H., Gelişli K., Aydın A.  
59th EAGE Conference and Technical Exhibition, Geneve, Switzerland, 26 - 30 May 1997, vol.1, pp.187
- XCIX. **The Hartley Transform and Its Some Applications in Geophysics**  
Gelişli K., Karşlı H., Bayrak Y.  
First Congress of the Balkan Geophysical Conference, Athens, Greece, 23 - 27 September 1996, pp.110
- C. **Soğurucu tabakalı ortamlarda Düşey Sismik profil Sismogramlarının Hesaplanması**  
Gelişli K., Karşlı H., Alptekin Ö.  
Türkiye 11. Petrol Kongresi ve Sergisi, Ankara, Turkey, 15 - 17 April 1996, pp.40-48

## Supported Projects

KARSLI H., TUBITAK Project, The Integrated Multidimensional Geophysical Anatomy of the Potential Landslide Area of Işıklar Settlement, 2018 - Continues

KARSLI H., TUBITAK Project, Batı Karadeniz Kefken Açıkları Kitasal Şelfinin Morfolojik ve Sismo-akustik Yapısı, 2015 - 2018

## **Metrics**

Publication: 157

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## **Non Academic Experience**

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