

# ERMAN ŐENTÜRK

## ASSOC. PROF.

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### International Researcher IDs

ScholarID: hSPOmXMAAAAJ

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Publons / Web Of Science ResearcherID: P-7927-2014

ScopusID: 57142108100

Yoksis Researcher ID: 31166



### Learning Knowledge

Doctorate 2014 - 2018	Kocaeli University, Fen Bilimleri Enstitüsü, Jeodezi Ve Jeoinformasyon Mühendisliđi, Turkey
Postgraduate 2012 - 2015	Kocaeli University, Fen Bilimleri Enstitüsü, İnŐaat Mühendisliđi, Turkey
Postgraduate 2010 - 2014	Kocaeli University, Fen Bilimleri Enstitüsü, Jeodezi Ve Jeoinformasyon Mühendisliđi, Turkey
Undergraduate 2006 - 2010	Kocaeli University, Mühendislik Fakültesi, Harita Mühendisliđi Bölümü, Turkey

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

IT, Web Tasarım, Elginkan Vakfı, 2011

Personal Evolution, Diksiyon, Elginkan Vakfı, 2011

### Dissertations

Doctorate, Türkiye'deki depremlerin sismik-iyonosferik öncüllerinin GPS/GNSS ölçüleriyle zamansal, mekansal, spektral ve istatistiksel olarak incelenmesi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Jeodezi Ve Jeoinformasyon Mühendisliđi, 2018

Postgraduate, Trafik akışında sıkışık trafiđe geçiş probleminin adomian ayrıştırma yöntemi ile çözümü, Kocaeli Üniversitesi, Mühendislik Fakültesi, İnŐaat Mühendisliđi Bölümü, 2015

Postgraduate, Taşıyıcı dalgalar üzerinde toplam elektron içeriđi hesabı ve hesap kalitesine ilişkin ölçütlendirme, Kocaeli Üniversitesi, Mühendislik Fakültesi, Harita Mühendisliđi Bölümü, 2014

## Academic Titles / Tasks

Associate Professor  
2024 - Continues

Kocaeli University, Mühendislik Fakültesi, Harita Mühendisliği

Assistant Professor  
2022 - Continues

Kocaeli University, Mühendislik Fakültesi, Harita Mühendisliği

Research Assistant  
2010 - 2022

Kocaeli University, Mühendislik Fakültesi, Harita Mühendisliği

## Supported Projects

- Şentürk E., Köküm M., Şengür A., TÜBİTAK Project, Yapay Zekâ Teknikleri ve TUSAGA-Aktif GNSS İstasyonlarının İyonosferik Toplam Elektron İçeriği Verileri ile Türkiye'deki Depremlerin Önceden Tahmin Edilebilirliğinin Araştırılması, 2023 - 2026
- Sertçelik F., İrmak T. S., Yavuz E., Kafadar Ö., Livaoglu H., Şentürk E., Gerdan S., Project Supported by Other Official Institutions, Performing the discrimination of natural and artificial quakes based on the earthquake stations and adapting on AFAD system, 2019 - 2022
- ERENER A., ŞENTÜRK E., Project Supported by Higher Education Institutions, CBS VE UZAKTAN ALGILAMA İLE AFET SONRASI TOPLANMA MERKEZLERİ İÇİN EN UYGUN ALANLARIN BELİRLEMESİ: GÖLCÜK ÖRNEĞİ, 2016 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- Seismo-Ionospheric Precursory Detection Using Hybrid Bayesian-LSTM Network Model with Uncertainty-Boundaries and Anomaly-Intensity**  
Saqib M., Şentürk E., Adil M. A., Freeshah M.  
ADVANCES IN SPACE RESEARCH, vol.1, no.1, pp.1, 2024 (SCI-Expanded)
- Investigating Multiple Ionospheric Disturbances Associated with the 2020 August 4 Beirut Explosion by Geodetic and Seismological Data**  
Freeshah M., Şentürk E., Zhang X., Livaoglu H., Ren X., Osama N.  
PURE AND APPLIED GEOPHYSICS, vol.1, no.1, pp.1, 2024 (SCI-Expanded)
- SoilSpatvis: WEB Application for Geographical Data Visualization with R Language for Assessing Soil Pollution**  
Kaya E., Şentürk E., Erener A., Ozkul C., Akyol N. H.  
SOIL & SEDIMENT CONTAMINATION, vol.33, no.7, pp.961-975, 2024 (SCI-Expanded)
- A Multi-Input Convolutional Neural Networks Model for Earthquake Precursor Detection Based on Ionospheric Total Electron Content**  
Uyanık H., Şentürk E., Akpınar M. H., Özçelik S., Köküm M., Freeshah M., Şengür A.  
REMOTE SENSING, vol.15, no.24, pp.5690, 2023 (SCI-Expanded)
- A Cyclone Formation, Eastward Plume Drag, Ion-hydration Process, and the Consequent Ionospheric Changes Following the 2022 Hunga Tong-Hunga Ha'apai Volcanic Eruption**  
Freeshah M., Adil M. A., Şentürk E., Zhang X., Ren ., Liu H., Osama N.  
ADVANCES IN SPACE RESEARCH, vol.1, pp.1-10, 2023 (SCI-Expanded)
- ANQDS: a MATLAB based graphical user interface developed for discrimination of the natural and artificial seismic events**  
KAFADAR Ö., SERTÇELİK F., Livaoglu H., ŞENTÜRK E., Yavuz E., IRMAK T. S., Gozsuz S., Merter G., Turkyilmaz B., Ceydilek N.

EARTH SCIENCE INFORMATICS, vol.16, pp.2963-2984, 2023 (SCI-Expanded)

7. **Ionospheric Response to the 6 February 2023 Turkey-Syria Earthquake**  
Vesnin A., Yasyukevich Y., Perevalova N., ŞENTÜRK E.  
REMOTE SENSING, vol.15, no.9, 2023 (SCI-Expanded)
8. **Long-term ion hydration process and lithosphere-atmosphere coupling following the 2021 Fagradalsfjall volcanic eruption using remotely sensed data**  
ŞENTÜRK E., Adil M. A., Toker M., Iban M. C., AKYÜREK Ö.  
ADVANCES IN SPACE RESEARCH, vol.71, no.8, pp.3122-3139, 2023 (SCI-Expanded)
9. **GNSS atmosphere seismology for equatorial earthquakes: a case study from Central America**  
Adil M. A., Pulinets S. A., ŞENTÜRK E., Abbasi A. R., Budnikov P.  
GPS SOLUTIONS, vol.26, no.4, 2022 (SCI-Expanded)
10. **Machine learning-based snow depth retrieval using GNSS signal-to-noise ratio data**  
ALTUNTAŞ C., Iban M. C., ŞENTÜRK E., Durdag U. M., TUNALIOĞLU ÖCALAN N.  
GPS SOLUTIONS, vol.26, no.4, 2022 (SCI-Expanded)
11. **A Multi-Network based Hybrid LSTM model for ionospheric anomaly detection: A case study of the M-w 7.8 Nepal earthquake**  
ŞENTÜRK E., Saqib M., Adil M. A.  
ADVANCES IN SPACE RESEARCH, vol.70, no.2, pp.440-455, 2022 (SCI-Expanded)
12. **RECURRENT NEURAL NETWORKS FOR PEAK FLOW ESTIMATION**  
YILMAZ S., EKİNCİ Ö., ŞENTÜRK E., Yuce A. M.  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.21, no.6, pp.927-937, 2022 (SCI-Expanded)
13. **Comparisons of autoregressive integrated moving average (ARIMA) and long short term memory (LSTM) network models for ionospheric anomalies detection: a study on Haiti (M-w=7.0) earthquake**  
Saqib M., ŞENTÜRK E., Sahu S. A., Adil M. A.  
ACTA GEODAETICA ET GEOPHYSICA, vol.57, no.1, pp.195-213, 2022 (SCI-Expanded)
14. **Machine learning regression models for prediction of multiple ionospheric parameters**  
Iban M. C., ŞENTÜRK E.  
ADVANCES IN SPACE RESEARCH, vol.69, no.3, pp.1319-1334, 2022 (SCI-Expanded)
15. **Early preliminary results on co-seismic deformation of the island of Samos associated with co-seismic slip following the October 2020 M-w 6.9 Samos earthquake (Greece)**  
Toker M., Şentürk E., Bayik C.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.14, no.23, 2021 (SCI-Expanded)
16. **A Lithosphere-Atmosphere-Ionosphere Coupling Phenomenon Observed Before M 7.7 Jamaica Earthquake**  
Adil M. A., Şentürk E., Pulinets S. A., Amory-Mazaudier C.  
PURE AND APPLIED GEOPHYSICS, vol.178, no.10, pp.3869-3886, 2021 (SCI-Expanded)
17. **Atmospheric and ionospheric disturbances associated with the M > 6 earthquakes in the East Asian sector: A case study of two consecutive earthquakes in Taiwan**  
Adil M. A., Şentürk E., Shah M., Naqvi N. A., Saqib M., Abbasi A. R.  
JOURNAL OF ASIAN EARTH SCIENCES, vol.220, 2021 (SCI-Expanded)
18. **Ionospheric anomalies detection using autoregressive integrated moving average (ARIMA) model as an earthquake precursor**  
Saqib M., Şentürk E., Sahu S. A., Adil M. A.  
ACTA GEOPHYSICA, vol.69, no.4, pp.1493-1507, 2021 (SCI-Expanded)
19. **A Comparative Study of Response and Fourier Spectral Ratios on Classifying Sites**  
Livaoğlu H., Şentürk E., Sertçelik F.  
PURE AND APPLIED GEOPHYSICS, vol.178, no.5, pp.1745-1759, 2021 (SCI-Expanded)
20. **Ionospheric total electron content response to annular solar eclipse on June 21, 2020**  
Şentürk E., Adil M. A., Saqib M.  
ADVANCES IN SPACE RESEARCH, vol.67, no.6, pp.1937-1947, 2021 (SCI-Expanded)

21. **Statistical Analysis of Storm-time TEC Variation during Ascending and Descending Solar Periods of 24th Solar Cycle**  
Şentürk E.  
GEOMAGNETISM AND AERONOMY, vol.61, no.2, pp.277-286, 2021 (SCI-Expanded)
22. **Analysis of Atmospheric and Ionospheric Variations Due to Impacts of Super Typhoon Mangkhut (1822) in the Northwest Pacific Ocean**  
Freeshah M., Zhang X., Şentürk E., Adil M. A., Mousa B. G., Tariq A., Ren X., Refaat M.  
REMOTE SENSING, vol.13, no.4, 2021 (SCI-Expanded)
23. **New insight into the 24 January 2020, M-w 6.8 Elazig earthquake (Turkey): An evidence for rupture-parallel pull-apart basin activation along the East Anatolian Fault Zone constrained by Geodetic and Seismological data**  
Irmak T. S., Toker M., Yavuz E., Şentürk E., Guvenaltin M. A.  
ANNALS OF GEOPHYSICS, vol.64, no.4, 2021 (SCI-Expanded)
24. **Ionospheric anomalies associated with the M-w 7.3 Iran-Iraq border earthquake and a moderate magnetic storm**  
Şentürk E., Inyurt S., Sertçelik İ.  
ANNALES GEOPHYSICAE, vol.38, no.5, pp.1031-1043, 2020 (SCI-Expanded)
25. **Source parameters for small-moderate earthquakes in Marmara Region (Turkey)**  
Irmak T. S., Yavuz E., Livaoğlu H., Şentürk E., Şahin E.  
GEOSCIENCES JOURNAL, vol.24, no.5, pp.541-555, 2020 (SCI-Expanded)
26. **Investigation of global ionospheric response of the severe geomagnetic storm on June 22-23, 2015 by GNSS-based TEC observations**  
Şentürk E.  
ASTROPHYSICS AND SPACE SCIENCE, vol.365, no.7, 2020 (SCI-Expanded)
27. **Interpolated variational iteration method for solving the jamming transition problem**  
Coşkun S. B., Atay M. T., Şentürk E.  
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.166, pp.481-493, 2019 (SCI-Expanded)
28. **Performance of different weighting and surface fitting techniques on station-wise TEC calculation and modified sine weighting supported by the sun effect**  
Şentürk E., Çepni M. S.  
JOURNAL OF SPATIAL SCIENCE, vol.64, no.2, pp.209-220, 2019 (SCI-Expanded)
29. **A Comprehensive Analysis of Ionospheric Anomalies before the M(w)7.1 Van Earthquake on 23 October 2011**  
Şentürk E., Livaoğlu H., Çepni M. S.  
JOURNAL OF NAVIGATION, vol.72, no.3, pp.702-720, 2019 (SCI-Expanded)
30. **Ionospheric temporal variations over the region of Turkey: a study based on long-time TEC observations**  
Şentürk E., Çepni M. S.  
ACTA GEODAETICA ET GEOPHYSICA, vol.53, no.4, pp.623-637, 2018 (SCI-Expanded)
31. **A statistical analysis of seismo-ionospheric TEC anomalies before 63 M(w)5.0 earthquakes in Turkey during 2003-2016**  
Şentürk E., Çepni M. S.  
ACTA GEOPHYSICA, vol.66, pp.1495-1507, 2018 (SCI-Expanded)
32. **Solution of jamming transition problem using adomian decomposition method**  
Şentürk E., Coşkun S. B., Atay M. T.  
ENGINEERING COMPUTATIONS, vol.35, no.5, pp.1950-1964, 2018 (SCI-Expanded)
33. **Geometric quality term for station-based total electron content estimation**  
Çepni M. S., Şentürk E.  
ANNALS OF GEOPHYSICS, vol.59, no.1, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- 1. Analysis of the motion of a rigid rod on a circular surface using interpolated variational iteration method**  
Coşkun S. B., Şentürk E., Atay M. T.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.40, no.3, pp.577-584, 2022 (ESCI)
- 2. Spatial Analysis of Building Density and Liquefaction Spread in Izmit Bay and its Surroundings**  
Erener A., Aşçı M., Gülsoy G., Üstün A., Güvenaltın M. A., Şentürk E., Yalvaç S., Canaslan Çomut F., Irmak T. S., Konak H., et al.  
JOURNAL OF NATURAL HAZARDS AND ENVIRONMENT, vol.8, no.1, pp.111-121, 2022 (Peer-Reviewed Journal)
- 3. The Prediction of Ionospheric Parameters Using Multi-layer Perceptrons**  
İban M. C., Şentürk E.  
El-Cezerî Journal of Science and Engineering, vol.8, no.3, pp.1480-1494, 2021 (Scopus)
- 4. Statistical Analysis of Performance of Global Ionosphere Maps with GNSS Data in Turkey**  
Şentürk E.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.23, no.67, pp.247-255, 2021 (Peer-Reviewed Journal)
- 5. Investigation of Ionospheric Changes Caused by Magnetic Storm Using GNSS Measurements**  
İnyurt S., Şentürk E.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.9, no.1, pp.288-296, 2020 (Peer-Reviewed Journal)
- 6. Investigation of Ionosphere Variation the  $6 \text{ Mw} \geq 7.0$  Earthquakes in 2016**  
Şentürk E., Çepni M. S.  
Geomatik Dergisi, vol.3, no.1, pp.35-47, 2018 (Peer-Reviewed Journal)
- 7. Determination of Temporary Shelter Areas in Natural Disasters by GIS: A Case Study, Gölcük/Turkey**  
Şentürk E., Erener A.  
INTERNATIONAL JOURNAL OF ENGINEERING AND GEOSCIENCES, vol.2, no.3, pp.84-90, 2017 (Peer-Reviewed Journal)
- 8. Çok Kriterli Karar Verme Analizi ile CBS Ortamında En Uygun Spor Bahis Bayi Yer Seçimi: İzmit Merkez Örneği**  
Şentürk E., Livaoglu H., Yavuz E.  
Uygulamalı Yerbilimleri Dergisi, vol.16, no.1, pp.17-26, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- 1. Natural Hazards Triggered Waves Propagating from Earth Surface to Edge of Space**  
Freeshah M., Zhang X., Ren X., Şentürk E., Osama N.  
International Symposium on Atmospheric Sounding and Data Assimilation (ISASDA 2023), Xuzhou, China, 6 - 09 December 2023, pp.1
- 2. Türkiye’de Deprem İstasyonu Bazlı Doğal ve Yapay Kaynaklı Sarsıntıların Ayrımının Yapılması ve AFAD Sistemine Uyarlanması**  
Sertçelik F., Irmak T. S., Yavuz E., Kafadar Ö., Livaoglu H., Şentürk E., Gerdan S., Türkyılmaz B., Ceydilek N., Merter G., et al.  
ON YILIN ARDINDAN ULUSAL DEPREM ARAŞTIRMA PROGRAMI (UDAP) ÇALIŞTAYI, Ankara, Turkey, 23 - 24 November 2023, pp.1-6
- 3. Contributions to The Ionosphere Disturbances Investigations by GNSS Data Due to Natural and Anthropogenic Hazards**  
Freeshah M., Şentürk E., Zhang X., Ren X., Osama N.  
International Symposium on Satellite Navigation (ISSN 2023), Jiaozuo, China, 20 - 22 November 2023, pp.1
- 4. Seismo-Ionospheric Anomalies Prior to Two-Successive Earthquakes Mw 6.6 and 7.1 Taitung, Taiwan: Pre-Results**

- Freeshah M., Şentürk E., Zhang X., Abdelaziz A., Osama N.  
ISPRS Geospatial Week 2023, Cairo, Egypt, 2 - 07 September 2023, pp.1
5. **Investigation of the Lithosphere-Atmosphere-Ionosphere Coupling during the 2020 Beirut Explosion By Geodetic and Seismological Data**  
Freeshah M., Şentürk E., Zhang X., Livaoğlu H., Ren X., Khaliel R. F., Osama N.  
ISPRS Geospatial Week 2023, Cairo, Egypt, 2 - 07 September 2023, pp.1
6. **Investigation of precursor ionospheric anomalies associated with two  $M > 7$  Earthquakes using a new machine-learning technique**  
Freeshah M., Saqib M., Şentürk E., Adil M. A., Zhang X.  
ISPRS Geospatial Week 2023, Cairo, Egypt, 2 - 07 September 2023, pp.1
7. **Observational Assessment for the 2022 Hunga Tonga-Hunga Ha'apai Volcanic Impact on Ocean, Atmosphere, and Ionosphere in the South Pacific**  
Freeshah M., Şentürk E., Adil M. A., Zhang X., Ren X., Osama N.  
21st International Beacon Satellite Symposium, Massachusetts, United States Of America, 1 - 05 August 2022, pp.1
8. **Contribution to the Research of the Effects of Severe Non-nuclear Anthropogenic Blasts, Beirut Port Blast, on the Features of the Ionospheric Total Electron Content Behavior**  
Freeshah M., Zhang X., Şentürk E., Livaoğlu H., Osama N., Ren X.  
The 2021 International Graduate Workshop on GeoInformatics (IGWG2021), Wuhan, China, 18 - 19 December 2021, pp.1
9. **İzmit Körfezi ve Çevresinde Bina Yoğunluk ve Sıvılaştırma Yayılımının Mekânsal Analizi**  
ERENER A., AŞÇI M., Gürsoy G., ÜSTÜN A., Güvenaltın M. A., ŞENTÜRK E., YALVAÇ S., Canaslan Comut F., Irmak T. S., KONAK H., et al.  
TMMOB Harita ve Kadastro Mühendisleri Odası, 18. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 26 May 2021, vol.1, pp.1
10. **İzmit Körfezi ve Çevresinde Konumsal ve Zamansal Deformasyon Özelliklerinin Jeodezik, Jeomorfolojik ve Jeofizik Verilerle İrdelenmesi**  
ÜSTÜN A., Güvenaltın M. A., ŞENTÜRK E., ERENER A., AŞÇI M., YALVAÇ S., Canaslan Comut F., KONAK H., KÜREÇ NEHBİT P.  
TMMOB Harita ve Kadastro Mühendisleri Odası, 18. Türkiye Harita Bilimsel ve Teknik Kurultayı, Ankara, Turkey, 26 May 2021, vol.1, pp.1
11. **Could the Beirut Explosion perturb the Ionosphere? Pre-results Using TEC-GNSS observations**  
Freeshah M., Zhang X., Şentürk E., Ren X., Adil M. A., Xu G.  
EGU General Assembly 2021, Vienna, Austria, 19 - 30 March 2021, pp.1-2
12. **An investigation into the impact of the typhoon on the ionosphere over the point with maximum wind speed during a tropical cyclone**  
Freeshah M., Zhang X., Şentürk E., Ren X., Chen J., Adil M. A., Osama N., Ameen M.  
International Graduate Workshop on GeoInformatics (IGWG) 2020, Wuhan, China, 16 - 18 December 2020, pp.1
13. **Analysis of Atmospheric anomalies versus ionospheric variations over a severe typhoon (1822)**  
Freeshah M., Zhang X., Şentürk E., Ameen M., Adil M. A.  
2020 International Graduate Workshop on GeoInformatics IGWG 2020 Online, Wuhan, China, 16 - 18 December 2020, pp.1
14. **PERFORMANCE OF MACHINE AND DEEP LEARNING METHODS IN FORECASTING OF GLOBAL IONOSPHERE MAPS**  
Şentürk E.  
V. International Scientific and Vocational Studies Congress Engineering (BILMES EN 2020), İzmir, Turkey, 12 - 15 December 2020, pp.186-194
15. **Long Short Term Memory (LSTM) Network Models for Ionospheric Anomalies Detection: A Case Study for  $M_w=7.7$  Awaran, Pakistan Earthquake**  
Saqib M., Sahu S. A., Şentürk E.  
1st Intercontinental Geoinformation Days (IGD), Mersin, Turkey, 25 - 26 November 2020, pp.1-4
16. **Ionospheric TEC Prediction Performance of ARIMA and LSTM Methods in Different Space Weather**

## Conditions

Şentürk E.

1st Intercontinental Geoinformation Days (IGD) , Mersin, Turkey, 25 - 26 November 2020, pp.1-4

17. **InSAR ile Zemin Çökmelerinin İzlenmesi, Bina Yoğunluğu ve Sıvılaşma ile İlişkinin Araştırılması: İzmit Körfezi Örneği**  
Erener A., Üstün A., Konak H., Fatma Ç., Yalvaç S., Aşçı S., İrmak T. S., Küreç Nehbit P., Şentürk E., Güvenaltın M.  
5. Uluslararası Deprem Gerçeği ve Kentleşme Çalıştayı 2018, Kocaeli, Turkey, 16 August 2018
18. **The Investigation of the Performance of Different Global Ionosphere Maps with GPS/GNSS Measurements in Turkey**  
Yıldırım H., Şentürk E., Çepni M. S.  
VI. International Earthquake Symposium Kocaeli 2019, Kocaeli, Turkey, 25 - 27 September 2019, pp.95-96
19. **Investigation of Time Dependent Building Density and Its Relation with Land Subsidence by InSAR and Optical Satellite Images in The Case of East Marmara (Izmit Bay)**  
Erener A., Üstün A., Yalvaç S., Canaslan Çomut F., Şentürk E., Kaya E.  
VI. International Earthquake Symposium Kocaeli 2019, Kocaeli, Turkey, 25 - 27 September 2019, pp.268-274
20. **Comparison of different online PPP services under quiet and disturbed space weather conditions**  
Ertürk Z., Çepni M. S., Şentürk E.  
Engineers of Future International Student Symposium (EFIS-2018), Zonguldak, Turkey, 7 - 09 June 2018
21. **20 Temmuz 2017 Bodrum-Kos Depremi (Mw=6.6) ve Artçı Sarsıntılarının Sismotektonik Yorumu**  
YAVUZ E., IRMAK T. S., ŞENTÜRK E., DURDAĞ D., SERTÇELİK F., AKÇAY D.  
Engineers of Future International Student Symposium (EFIS-2018), Zonguldak, Turkey, 7 - 09 June 2018, vol.1, pp.138
22. **Performance of different GIMs under low and high solar activity in Turkey**  
ŞENTÜRK E., ÇEPNİ M. S., YAVUZ E., DURDAĞ D., IRMAK T. S., SERTÇELİK İ.  
Engineers of Future International Student Symposium (EFIS-2018), Zonguldak, Turkey, 7 - 09 June 2018, vol.1, pp.92
23. **Türkiye’de Meydana Gelen 63 Mw ≥ 5.0 Depremin Sismik-İyonosferik Aykırılıklarının İstatistiksel Olarak İncelenmesi**  
Çepni M. S., Şentürk E., Sertçelik F.  
Türkiye Ulusal Jeodezi Jeofizik Birliği Kongresi, İzmir, Turkey, 30 May - 01 June 2018
24. **2003-2016 Yılları Arası Türkiye İyonosferinin Zamansal Değişiminin İncelenmesi**  
Çepni M. S., Şentürk E.  
Türkiye Ulusal Jeodezi Jeofizik Birliği Kongresi, İzmir, Turkey, 30 May - 01 June 2018
25. **An Eight-Year Displacement Investigation in Izmit Bay Based on GPS Control Survey**  
Üstün A., Erener A., Konak H., Şentürk E., Küreç Nehbit P., Güvenaltın M. A., Yalvaç S., Canaslan Çomut F.  
TUJBBK, İzmir, Turkey, 30 May - 02 June 2018
26. **Analysis of Ionospheric Disturbance Prior to the 20 July 2017 Mw 6.6 Bodrum, Turkey Earthquake**  
ŞENTÜRK E., ÇEPNİ M. S., YAVUZ E.  
9th Congress of the Balkan Geophysical Society, Antalya, Turkey, 5 - 09 November 2017
27. **2017 Ayvacık - Çanakkale Deprem Etkinliğinin Bölgesel Moment Tensör Analizi: İlk Sonuçlar**  
YAVUZ E., IRMAK T. S., DOĞAN B., LİVAOĞLU H., SERTÇELİK F., ŞENTÜRK E., YEKEN T.  
4th International Earthquake Engineering and Seismology Conference, Eskişehir, Turkey, 11 - 13 October 2017
28. **Rupture Processes of the November 13, 2016 New Zealand Earthquake Inferred from Teleseismic Body-waveform Inversion**  
YAVUZ E., IRMAK T. S., ŞENTÜRK E., YEKEN T.  
Japan 18th International Conference on EngineeringTechnology, Computer, BasicApplied Sciences, Tokyo, Japan, 25 - 26 July 2017
29. **The Temporal Variation of Coda-Wave Attenuation in Ayvacık, Çanakkale,Turkey**  
SERTÇELİK F., LİVAOĞLU H., MORGİL E., BİRDEM M., YAVUZ E., ŞENTÜRK E.  
2nd International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017, pp.3400
30. **GPS-TEC Yönteminde Kalite Ölçütü**

- ŞENTÜRK E., ÇEPNİ M. S.  
8. ULUSAL MÜHENDİSLİK ÖLÇMELERİ SEMPOZYUMU, Turkey, 19 - 21 October 2016
31. **İyonosferik Değişim ve Deprem İlişkisi Üzerine Bir Deneme: Van Depremi Örneği**  
ÇEPNİ M. S., ŞENTÜRK E.  
5. Uluslararası Deprem Sempozyumu, 10 - 12 June 2015
32. **İyonosfer TEİ Hesabında Uydu-Alıcı Bağlı Geometrisine Uygun Yeni Bir Ağırlık Fonksiyonu - Wgeo**  
ŞENTÜRK E., ÇEPNİ M. S.  
15. TÜRKİYE HARİTA BİLİMSEL VE TEKNİK KURULTAYI, Turkey, 25 - 28 March 2015
33. **Kocaeli İlinde Yerel Jeoidin Enterpolasyon Yaklaşımıyla Belirlenmesi**  
ŞENTÜRK E., İNCE C. D.  
15. TÜRKİYE HARİTA BİLİMSEL VE TEKNİK KURULTAYI, Turkey, 25 - 28 March 2015
34. **İyonosfer TEİ Hesabında Yeni Bir Ağırlık Fonksiyonu Yaklaşımı**  
ŞENTÜRK E., ÇEPNİ M. S.  
Aktif Tektonik Araştırma Grubu 18. Çalıştayı, Turkey, 5 - 07 November 2014
35. **Kocaeli İlinde GPS Nivelman Ölçüleriyle Yerel Jeoid Araştırması**  
ŞENTÜRK E., İNCE C. D.  
Aktif Tektonik Araştırma Grubu 18. Çalıştayı, Turkey, 5 - 07 November 2014
36. **GPS Almanaklarının Ede Edilmesi**  
KURT O., ŞENTÜRK E.  
TMMOB-HKMO, Mühendislik Ölçmeleri STB Komisyonu, 7. Ulusal Mühendislik Ölçmeleri Sempozyumu, Çorum, Turkey, 15 - 17 October 2014, pp.1-7

## Academic and Administrative Experience

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2022 - 2023	<b>Deputy Head of Department</b>	Kocaeli University, Mühendislik Fakültesi, Harita Mühendisliği
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## Courses

- Sayısal Arazi Modeli, Undergraduate, 2022 - 2023  
Yol Projesi, Undergraduate, 2023 - 2024  
Kartografya, Undergraduate, 2021 - 2022  
Radar İnterferometri Tekniği ve Uygulamaları, Postgraduate, 2021 - 2022  
Tasarım Projesi, Undergraduate, 2020 - 2021  
Mühendislik Ölçmeleri, Undergraduate, 2020 - 2021  
Coordinate Systems and transformations, Postgraduate, 2021 - 2022  
GNSS Technique, Undergraduate, 2021 - 2022  
GPS Technique, Undergraduate, 2020 - 2021  
Basemap Production, Undergraduate, 2019 - 2020  
Land Application, Undergraduate, 2019 - 2020  
Graduation Project, Undergraduate, 2019 - 2020  
Programming in Geoinformatic, Undergraduate, 2019 - 2020  
Cartography II, Undergraduate, 2018 - 2019  
Measurement and Map Information in Geophysics , Undergraduate, 2019 - 2020  
Dinamik, Undergraduate, 2018 - 2019  
Introduction to Programming, Undergraduate, 2019 - 2020  
Introduction to Geomatic Engineering, Undergraduate, 2019 - 2020



## Activities in Scientific Journals

American Journal of Astronomy and Astrophysics, Editor, 2023 - Continues  
Advances in Geomatics, First Editor, 2023 - Continues  
Frontiers in Astronomy and Space Sciences, Special Issue Editor, 2022 - 2023

## Scientific Refereeing

INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION & GEOINFORMATION, SCI Journal, May 2024  
Journal of Asian Earth Sciences: X, Journal Indexed in SCI-E, December 2023  
ADVANCES IN ASTRONOMY, Journal Indexed in SCI-E, October 2023  
ADVANCES IN SPACE RESEARCH, Journal Indexed in SCI-E, July 2023  
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JOURNAL OF ATMOSPHERIC AND SOLAR - TERRESTRIAL PHYSICS, Journal Indexed in SCI-E, June 2023  
FRONTIERS IN EARTH SCIENCE, Journal Indexed in SCI-E, May 2023  
REMOTE SENSING, Journal Indexed in SCI-E, May 2023  
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FRONTIERS IN EARTH SCIENCE, Journal Indexed in SCI-E, February 2023  
REMOTE SENSING, Journal Indexed in SCI-E, January 2023  
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REMOTE SENSING, Journal Indexed in SCI-E, November 2022  
REMOTE SENSING, Journal Indexed in SCI-E, September 2022  
JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, Journal Indexed in SCI-E, August 2022  
ATMOSPHERE, Journal Indexed in SCI-E, June 2022  
Cogent Engineering, Journal Indexed in ESCI, June 2022  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, Journal Indexed in SCI-E, June 2022  
JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, Journal Indexed in SCI-E, May 2022  
GEOCARTO INTERNATIONAL, Journal Indexed in SCI-E, February 2022  
GEOCARTO INTERNATIONAL, Journal Indexed in SCI-E, January 2022  
GPS SOLUTIONS, Journal Indexed in SCI-E, January 2022  
GEOCARTO INTERNATIONAL, Journal Indexed in SCI-E, December 2021  
EXPERT SYSTEMS, Journal Indexed in SCI-E, August 2021  
INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION, Journal Indexed in SCI-E, July 2021  
ACTA GEODAETICA ET GEOPHYSICA, Journal Indexed in SCI-E, January 2021  
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, Journal Indexed in SCI-E, November 2020  
ACTA GEODAETICA ET GEOPHYSICA, Journal Indexed in SCI-E, May 2020  
IEEE ACCESS, SCI Journal, December 2019  
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, Journal Indexed in SCI-E, September 2019  
JOURNAL OF NAVIGATION, Journal Indexed in SCI-E, August 2019  
ACTA GEODAETICA ET GEOPHYSICA, Journal Indexed in SCI-E, July 2019  
JOURNAL OF NAVIGATION, Journal Indexed in SCI-E, August 2017

## Metrics

Publication: 78  
Citation (WoS): 279  
Citation (Scopus): 295  
H-Index (WoS): 13  
H-Index (Scopus): 12

## Research Areas

Cartography, Geotechnical Engineering, Measuring Technique