

## Prof. FEZA ARIKAN

### Personal Information

Office Phone: [+90 312 297 7095](tel:+903122977095)

Fax Phone: [+90 312 299 2125](tel:+903122992125)

Email: [arikan@hacettepe.edu.tr](mailto:arikan@hacettepe.edu.tr)

### Education Information

Doctorate, Northeastern University, Mühendislik Fakültesi, Elektrik Ve Bilgisayar, United States Of America 1988 - 1992

Post Graduate, Northeastern University, Mühendislik Fakültesi, Elektrik Ve Bilgisayar, United States Of America 1986 - 1988

Under Graduate, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik, Turkey 1982 - 1986

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Radar Returns from a Low-Flying Target over a Rough Sea Surface under Multipath and Clutter Conditions, Northeastern University, Elektrik Ve Bilgisayar Mühendisliği, 1992

Post Graduate, Scattering from Finite Length Circularly Cylindrical Structures, Northeastern University, Elektrik Ve Bilgisayar Mühendisliği, 1988

### Research Areas

Electrical and Electronics Engineering, Electromagnetic, Wave Propagation and Remote Sensing, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

### Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2005 - Continues

Associate Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1999 - 2005

Assistant Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1994 - 1999

Lecturer PhD, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1994

### Professional Experience

University Executive Board Member, Hacettepe Üniversitesi, Hacettepe Ankara Sanayi Odası 1. Osb Meslek Yüksekokulu, 2012 - 2014

Head of Department, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2006 - 2009

## Advising Theses

ARIKAN F., Deprem ile iyonküredeki toplam elektron içeriği arasındaki ilişkinin araştırılması, Doctorate, S.KARATAY(Student), 2010

ARIKAN F., Türkiye için IONOLAB-TEC kullanılarak GPS tabanlı TEI ve alıcı yanlışlığı veri tabanı hazırlanması, Post Graduate, M.ŞÜKRÜ(Student), 2008

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Comparison of IRI-2016 F2 Layer Model Parameters with Ionosonde Measurements**  
ARIKAN F., SEZEN U., Gulyaeva T. L.  
JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS, vol.124, pp.8092-8109, 2019 (Journal Indexed in SCI)
- II. **Eight proxy indices of solar activity for the International Reference Ionosphere and Plasmasphere model**  
Gulyaeva T. L. , ARIKAN F., SEZEN U., POUSTOVALOVA L. V.  
JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, vol.172, pp.122-128, 2018 (Journal Indexed in SCI)
- III. **Observation of the solar eclipse of 20 March 2015 at the Pruhonice station**  
MOŠNA Z., BOŠKA J., KNÍŽOVÁ P. K. , Sindelafova T., KOUBA D., CHUM J., REJFEK L., POTUŽNÍKOVÁ K., ARIKAN F., TOKER C.  
JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, vol.171, pp.277-284, 2018 (Journal Indexed in SCI)
- IV. **Model based Computerized Ionospheric Tomography in space and time**  
Tuna H., ARIKAN O., ARIKAN F.  
ADVANCES IN SPACE RESEARCH, vol.61, pp.2057-2073, 2018 (Journal Indexed in SCI)
- V. **Performance of Solar Proxy Options of IRI-Plas Model for Equinox Seasons**  
SEZEN U., GULYAEVA T. L. , ARIKAN F.  
JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS, vol.123, pp.1441-1456, 2018 (Journal Indexed in SCI)
- VI. **IONOLAB-MAP: An automatic spatial interpolation algorithm for total electron content**  
Deviren M. N. , ARIKAN F.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, pp.1933-1945, 2018 (Journal Indexed in SCI)
- VII. **Ionospheric responses during equinox and solstice periods over Turkey**  
Karatay S., Cinar A., ARIKAN F.  
ADVANCES IN SPACE RESEARCH, vol.60, pp.1958-1967, 2017 (Journal Indexed in SCI)
- VIII. **Earthquake aftereffects in the Equatorial Ionization Anomaly region under geomagnetic quiet and storm conditions**  
Gulyaeva T., ARIKAN F., Stanislawska I.  
Advances in Space Research, vol.60, pp.406-418, 2017 (Journal Indexed in SCI)
- IX. **A fast algorithm for automatic detection of ionospheric disturbances: DROT**  
EFENDI E., ARIKAN F.  
Advances in Space Research, vol.59, pp.2923-2933, 2017 (Journal Indexed in SCI)
- X. **Persistent long-term (1944-2015) ionosphere-magnetosphere associations at the area of intense seismic activity and beyond**  
Gulyaeva T. L. , ARIKAN F., Stanislawska I.  
ADVANCES IN SPACE RESEARCH, vol.59, pp.1033-1040, 2017 (Journal Indexed in SCI)
- XI. **Statistical discrimination of global post-seismic ionosphere effects under geomagnetic quiet and storm conditions**  
Gulyaeva T., ARIKAN F.  
GEOMATICS NATURAL HAZARDS & RISK, vol.8, pp.509-524, 2017 (Journal Indexed in SCI)

- XII. **Regional ionospheric trend statistics: IONOLAB-PDF**  
KÖROĞLU O., ARIKAN F.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.25, pp.1773-1783, 2017 (Journal Indexed in SCI)
- XIII. **Ionolab-Ray: A wave propagation algorithm for anisotropic and inhomogeneous ionosphere**  
Erdem E., ARIKAN F.  
Turkish Journal of Electrical Engineering and Computer Sciences, vol.25, pp.1712-1723, 2017 (Journal Indexed in SCI)
- XIV. **Association of ionospheric storms and substorms of Global Electron Content with proxy AE index**  
YENEN S. D. , Gulyaeva T. L. , ARIKAN F., Arikan O.  
ADVANCES IN SPACE RESEARCH, vol.56, pp.1343-1353, 2015 (Journal Indexed in SCI)
- XV. **Regional model-based computerized ionospheric tomography using GPS measurements: IONOLAB-CIT**  
Tuna H., Arikan O., ARIKAN F.  
RADIO SCIENCE, vol.50, pp.1062-1075, 2015 (Journal Indexed in SCI)
- XVI. **North-south components of the annual asymmetry in the ionosphere**  
Gulyaeva T. L. , ARIKAN F., Hernandez-Pajares M., Veselovsky I. S.  
RADIO SCIENCE, vol.49, pp.485-496, 2014 (Journal Indexed in SCI)
- XVII. **Online user-friendly slant total electron content computation from IRI-Plas: IRI-Plas-STEAC**  
Tuna H., Arikan O., ARIKAN F., GULYAEVA T. L. , SEZEN U.  
SPACE WEATHER-THE INTERNATIONAL JOURNAL OF RESEARCH AND APPLICATIONS, vol.12, pp.64-75, 2014 (Journal Indexed in SCI)
- XVIII. **Symmetry and asymmetry of ionospheric weather at magnetic conjugate points for two midlatitude observatories**  
Gulyaeva T. L. , ARIKAN F., Stanislawska I., POUSTOVALOVA L. V.  
ADVANCES IN SPACE RESEARCH, vol.52, pp.1837-1844, 2013 (Journal Indexed in SCI)
- XIX. **Estimation of hmF2 and foF2 Communication Parameters of Ionosphere F2-Layer Using GPS Data and IRI-Plas Model**  
SEZEN U., Sahin O., ARIKAN F., Arikan O.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.61, pp.5264-5273, 2013 (Journal Indexed in SCI)
- XX. **GIM-TEC adaptive ionospheric weather assessment and forecast system**  
Gulyaeva T. L. , ARIKAN F., Hernandez-Pajares M., Stanislawska I.  
JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, vol.102, pp.329-340, 2013 (Journal Indexed in SCI)
- XXI. **Online, automatic, near-real time estimation ofGPS-TEC: IONOLAB-TEC**  
SEZEN U., ARIKAN F., Arikan O., UGURLU O., SADEGHIMORAD A.  
SPACE WEATHER-THE INTERNATIONAL JOURNAL OF RESEARCH AND APPLICATIONS, vol.11, pp.297-305, 2013 (Journal Indexed in SCI)
- XXII. **Spatio-temporal interpolation of total electron content using a GPS network**  
DEVIREN M. N. , ARIKAN F., Arikan O.  
RADIO SCIENCE, vol.48, pp.302-309, 2013 (Journal Indexed in SCI)
- XXIII. **Observed Ionospheric Effects of 23 October 2011 Van, Turkey Earthquake**  
ARIKAN F., DEVIREN M. N. , LENK O., SEZEN U., Arikan O.  
GEOMATICS NATURAL HAZARDS & RISK, vol.3, pp.1-8, 2012 (Journal Indexed in SCI)
- XXIV. **Inter-hemispheric imaging of the ionosphere with the upgraded IRI-Plas model during the space weather storms**  
Gulyaeva T. L. , ARIKAN F., Stanislawska I.  
EARTH PLANETS AND SPACE, vol.63, pp.929-939, 2011 (Journal Indexed in SCI)
- XXV. **Probability density function estimation for characterizing hourly variability of ionospheric total electron content**  
TUREL N., ARIKAN F.

- RADIO SCIENCE, vol.45, 2010 (Journal Indexed in SCI)
- XXVI. **Investigation of total electron content variability due to seismic and geomagnetic disturbances in the ionosphere**  
Karatay S., ARIKAN F., Arikan O.  
RADIO SCIENCE, vol.45, 2010 (Journal Indexed in SCI)
- XXVII. **PERFORMANCE EVALUATION OF TRACK ASSOCIATION AND MAINTENANCE FOR A MF PAR WITH DOPPLER VELOCITY MEASUREMENTS**  
Kural F., ARIKAN F., Arikan O., Efe M.  
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.108, pp.249-275, 2010 (Journal Indexed in SCI)
- XXVIII. **DAMA-Infrared Sea Modeling and Analysis Software**  
ERDEM E., ARIKAN F., EROL C. B.  
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.47, pp.3581-3592, 2009 (Journal Indexed in SCI)
- XXIX. **A new technique for direction of arrival estimation for ionospheric multipath channels**  
Guldogan M. B. , Arikan O., ARIKAN F.  
ADVANCES IN SPACE RESEARCH, vol.44, pp.653-662, 2009 (Journal Indexed in SCI)
- XXX. **Multipath Separation-Direction of Arrival (MS-DOA) with Genetic Search Algorithm for HF channels**  
ARIKAN F., KOROGLU O., FIDAN S., Arikan O., Guldogan M. B.  
ADVANCES IN SPACE RESEARCH, vol.44, pp.641-652, 2009 (Journal Indexed in SCI)
- XXXI. **Tomographic reconstruction of the ionospheric electron density as a function of space and time**  
Erturk O., Arikan O., ARIKAN F.  
ADVANCES IN SPACE RESEARCH, vol.43, pp.1702-1710, 2009 (Journal Indexed in SCI)
- XXXII. **Scale factor mitigating non-compliance of double-frequency altimeter measurements of the ionospheric electron content over the oceans with GPS-TEC maps**  
Gulyaeva T. L. , ARIKAN F., Delay S. H.  
EARTH PLANETS AND SPACE, vol.61, pp.1103-1109, 2009 (Journal Indexed in SCI)
- XXXIII. **Regional TEC mapping with Random Field Priors and Kriging**  
SAYIN I., ARIKAN F., Arikan O.  
RADIO SCIENCE, vol.43, 2008 (Journal Indexed in SCI)
- XXXIV. **Estimation of single station interfrequency receiver bias using GPS-TEC**  
ARIKAN F., NAYIR H., SEZEN U., Arikan O.  
RADIO SCIENCE, vol.43, 2008 (Journal Indexed in SCI)
- XXXV. **Total Electron Content estimation with Reg-Est**  
NAYIR H., Arikan F., ARIKAN O., EROL C. B.  
JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS, vol.112, 2007 (Journal Indexed in SCI)
- XXXVI. **Statistical characterization of the ionosphere using GPS signals**  
EROL C., Arikan F.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.19, pp.373-387, 2005 (Journal Indexed in SCI)
- XXXVII. **Simulation of sea clutter at various frequency bands**  
Arikan F., VURAL N.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.19, pp.529-542, 2005 (Journal Indexed in SCI)
- XXXVIII. **Regularized estimation of vertical total electron content from GPS data for a desired time period**  
Arikan F., EROL C., ARIKAN O.  
RADIO SCIENCE, vol.39, 2004 (Journal Indexed in SCI)
- XXXIX. **A brief review of HF channel response estimation**  
Arikan F.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.18, pp.837-851, 2004 (Journal Indexed in SCI)
- XL. **Regularized estimation of vertical total electron content from Global Positioning System data**  
Arikan F., EROL C., ARIKAN O.  
JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS, vol.108, 2003 (Journal Indexed in SCI)
- XLI. **Adaptive tracking of narrowband HF channel response**

- Arikan F., ARIKAN O.  
RADIO SCIENCE, vol.38, 2003 (Journal Indexed in SCI)
- XLII. **Mode separation and direction of arrival estimation in HF links**  
Arikan F., YILMAZ N., ARIKAN O., MILED M.  
RADIO SCIENCE, vol.38, 2003 (Journal Indexed in SCI)
- XLIII. **A new algorithm for high-quality ionogram generation and analysis**  
Arikan F., ARIKAN O., SALOUS S.  
RADIO SCIENCE, vol.37, 2002 (Journal Indexed in SCI)
- XLIV. **Algorithm for high quality ionograms**  
Arikan F., SALOUS S., ARIKAN O.  
ELECTRONICS LETTERS, vol.36, pp.985-987, 2000 (Journal Indexed in SCI)
- XLV. **Statistical characterization of time variability in midlatitude single-tone HF channel response**  
Arikan F., EROL C.  
RADIO SCIENCE, vol.33, pp.1429-1443, 1998 (Journal Indexed in SCI)
- XLVI. **Statistics of simulated ocean clutter**  
Arikan F.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.12, pp.499-526, 1998 (Journal Indexed in SCI)
- XLVII. **A methodology for modeling and simulation of radar clutter and multipath**  
Arikan F., RAEMER H.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.10, pp.215-242, 1996 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **NVIS HF signal propagation in ionosphere using calculus of variations**  
SEZEN U., ARIKAN F., ARIKAN O.  
GEODESY AND GEODYNAMICS, vol.10, pp.72-76, 2019 (Journal Indexed in ESCI)
- II. **Dynamo equation solution using Finite Volume Method for midlatitude ionosphere**  
ARIKAN F., SEZEN U., ARIKAN O.  
GEODESY AND GEODYNAMICS, vol.9, pp.425-431, 2018 (Journal Indexed in ESCI)
- III. **Online computation of International Reference Ionosphere Extended to Plasmasphere (IRI-Plas) model for space weather**  
SEZEN U., Gulyaeva T. L. , ARIKAN F.  
GEODESY AND GEODYNAMICS, vol.9, pp.347-357, 2018 (Journal Indexed in ESCI)
- IV. **Spectral investigation of traveling ionospheric disturbances: IONOLAB-FFT**  
ARIKAN F., YARICI A.  
GEODESY AND GEODYNAMICS, vol.8, pp.297-304, 2017 (Journal Indexed in ESCI)
- V. **TEC Proxy Index of Solar Activity for the International Reference Ionosphere and its Extension to Plasmasphere IRI-Plas Model**  
GULYAEVA T., ARIKAN F., L P., SEZEN U.  
International Journal of Scientific Engineering and Applied Science (IJSEAS), vol.3, pp.144-150, 2017 (Non-Refreed Journal)
- VI. **Global Distribution of Zones of Enhanced Risk for the Ionospheric Weather**  
GULYAEVA T., ARIKAN F., STANISLAWSKA I., POUSTOVALOVA L.  
Journal of Geography, Environment and Earth Science International, vol.4, pp.1-13, 2016 (Refereed Journals of Other Institutions)
- VII. **Performance of GPS slant total electron content and IRI-Plas-STE C for days with ionospheric disturbance**  
ARIKAN F., SHUKUROV S., Tuna H., Arikan O., Gulyaeva T. L.  
GEODESY AND GEODYNAMICS, vol.7, pp.1-10, 2016 (Journal Indexed in ESCI)
- VIII. **Probability of occurrence of planetary ionosphere storms associated with the magnetosphere**

### **disturbance storm time events**

Gulyaeva T., ARIKAN F., STANIŚLAWSKA I.

Advances in Radio Science, vol.12, pp.261-266, 2014 (Refereed Journals of Other Institutions)

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

- I. **Comparison of IRI-Plas STEC and IONOLAB-STECC over a Midlatitude GPS Network**  
Yenen S. D. , ARIKAN F., Gulyaeva T.  
9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 11 - 14 June 2019, pp.649-653
- II. **Ionogram Scaling using Hidden Markov Models**  
Gok G., Alp Y. K. , ARIKAN O., ARIKAN F.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- III. **Analysis of Seasonal Ionospheric Gradients Over Turkey For Year 2011**  
Koroglu M., Koroglu O., ARIKAN F.  
32nd General Assembly and Scientific Symposium of the International-Union-of-Radio-Science (URSI GASS), Montreal, Canada, 19 - 26 August 2017
- IV. **Online International Reference Ionosphere Extended to Plasmasphere (IRI-Plas) Model**  
SEZEN U., Gulyaeva T. L. , ARIKAN F.  
32nd General Assembly and Scientific Symposium of the International-Union-of-Radio-Science (URSI GASS), Montreal, Canada, 19 - 26 August 2017
- V. **Modelling the Spatial-Temporal Variability of the Ionosphere over Turkey using a GPS Network**  
Yenen S. D. , SEZEN U., ARIKAN F.  
32nd General Assembly and Scientific Symposium of the International-Union-of-Radio-Science (URSI GASS), Montreal, Canada, 19 - 26 August 2017
- VI. **Statistical Analysis of the Ionosphere based on Singular Value Decomposition**  
DEMİR U., Deviren M. N. , TOKER C., ARIKAN F.  
41st COSPAR Scientific Assembly, 30 July - 07 August 2016
- VII. **SPACE WEATHER STUDIES OF IONOLAB GROUP**  
ARIKAN F., SEZEN U., TOKER C., ARTUNER H., BULU G., DEMİR U., ERDEM E., ARIKAN O., Tuna H., Karatay S., et al.  
URSI Asia-Pacific Radio Science Conference (URSI AP-RASC), Seoul, South Korea, 21 - 25 August 2016, pp.1136-1139
- VIII. **The Seasonal Anomalies in Ionosphere over Turkey**  
ÇINAR A., KARATAY S., ARIKAN F.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1137-1140
- IX. **Computation of Fresnel Integral by Fractional Fourier Transform Methods**  
SAYIN I., ARIKAN F., ARIKAN O.  
1st URSI Atlantic Radio Science Conference (URSI AT-RASC), Gran Canaria, Spain, 16 - 24 May 2015
- X. **Detection of Ionospheric Disturbances over Turkey Using Ionospheric Spatial Gradient Estimates**  
Koroglu M., ARIKAN F., Koroglu O.  
7th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 16 - 19 June 2015, pp.488-493
- XI. **Automatic TEC Mapping Using a GPS Network and GIM-TEC**  
Deviren M. N. , ARIKAN F., SAYIN I., Koroglu O.  
1st URSI Atlantic Radio Science Conference (URSI AT-RASC), Gran Canaria, Spain, 16 - 24 May 2015
- XII. **Observing ionosphere over Turkey using Correlation Coefficient for Slant Total Electron Content**  
Shukurov S., ARIKAN F., Gulyaeva T.  
7th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 16 - 19 June 2015, pp.515-518

- XIII. **A Model Based Ray Tracing Algorithm for Anisotropic and Inhomogeneous Ionosphere with GIM-TEC Assimilation**  
Erdem E., ARIKAN F., Deviren M. N. , Cor I.  
7th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 16 - 19 June 2015, pp.477-481
- XIV. **Ray Tracing on Stratified Plane Ionosphere Model**  
Erdem E., ARIKAN F.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1391-1394
- XV. **Investigation of Short-Period Ionospheric Variation over Turkey**  
Deviren M. N. , ARIKAN F., ARIKAN O.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.794-797
- XVI. **MATHEMATICAL MODELING OF THE PLASMA FREQUENCY - HEIGHT PROFILE OF THE IONOSPHERE FOR HF COMMUNICATIONS**  
TOKER C., ARIKAN F., ARIKAN O.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1063-1066
- XVII. **REGIONAL AND SEASONAL PARAMETRIC PROBABILITY DENSITY FUNCTION ESTIMATION FOR TOTAL ELECTRON CONTENT**  
Koroglu O., ARIKAN F., Deviren M. N.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.915-918
- XVIII. **REMOTE SENSING AND 2-D IMAGING OF IONOSPHERE BY IONOLAB GROUP**  
ARIKAN F., TOKER C., SEZEN U., Deviren M. N. , Cilibas O., ARIKAN O.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1520-1523
- XIX. **GENERATION OF EARTHQUAKE DETECTION SIGNAL BASED ON IONOSPHERIC ELECTRON CONTENT VARIATION**  
Akyol A. A. , ARIKAN O., ARIKAN F.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.590-593
- XX. **3D Electron Density Estimation in the Ionosphere**  
Tuna H., ARIKAN O., ARIKAN F.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.529-532
- XXI. **ANALYSIS OF PROBABILITY DENSITY FUNCTIONS OF TOTAL ELECTRON CONTENT FOR MAGNETIC CONJUGATE LOCATIONS**  
Sapaz M. S. , ARIKAN F., Gulyaeva T., Koroglu O.  
6th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 12 - 14 June 2013, pp.769-772
- XXII. **Estimation of 3D Electron Density in the Ionosphere By Using Fusion of GPS Satellite-Receiver Network Measurements and IRI-Plas Model**  
Tuna H., ARIKAN O., ARIKAN F., Gulyaeva T.  
16th International Conference on Information Fusion (FUSION), İstanbul, Turkey, 9 - 12 July 2013, pp.1650-1657
- XXIII. **AUTOMATIC REGIONAL MAPPING OF TOTAL ELECTRON CONTENT USING A GPS SENSOR NETWORK AND ISOTROPIC UNIVERSAL KRIGING**  
Deviren M. N. , ARIKAN F., ARIKAN O.  
16th International Conference on Information Fusion (FUSION), İstanbul, Turkey, 9 - 12 July 2013, pp.1664-1669
- XXIV. **Investigation of Ionospheric Trend over Turkey Using Sliding Window Statistical Analysis Method**  
Deviren M. N. , ARIKAN F., ARIKAN O.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

- XXV. **IRI-Plas Optimization Based Ionospheric Tomography**  
Cilibas O., SEZEN U., ARIKAN F., Gulyaeva T.  
16th International Conference on Information Fusion (FUSION), İstanbul, Turkey, 9 - 12 July 2013, pp.1645-1649
- XXVI. **Global Mapping of Hourly TEC and Ionospheric Critical Parameters by Using IRI-Plas Optimization**  
Cilibas O., SEZEN U., ARIKAN F., Gulyaeva T.  
6th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 12 - 14 June 2013, pp.735-738
- XXVII. **Investigation on the Reliability of Earthquake Prediction Based on Ionospheric Electron Content Variation**  
Akyol A. A. , ARIKAN O., ARIKAN F., Deviren M. N.  
16th International Conference on Information Fusion (FUSION), İstanbul, Turkey, 9 - 12 July 2013, pp.1658-1663
- XXVIII. **Space Weather Activities of IONOLAB Group TEC Mapping**  
ARIKAN F., YILMAZ A., ARIKAN O., SAYIN I., GÜRÜN M., AKDOGAN K. E. , YILDIRIM S. A.  
EGU General Assembly Conference, Viyana, Austria, 19 - 24 April 2009, vol.11, pp.6962-6965
- XXIX. **Investigation of Optimum Temporal Update Periods for Regional TEC Monitoring**  
SAYIN I., Akdogan K. E. , ARIKAN F.  
4th International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 11 - 13 June 2009, pp.675-679
- XXX. **Investigation of Lithosphere-Ionosphere Coupling Using Total Electron Content**  
Karatay S., ARIKAN F., ARIKAN O.  
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.507-508
- XXXI. **Investigation of Hourly and Daily Patterns for Lithosphere-Ionosphere Coupling Before Strong Earthquakes**  
Karatay S., ARIKAN F., ARIKAN O.  
4th International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 11 - 13 June 2009, pp.670-671
- XXXII. **TEC statistics and correlogram applications**  
Tuerel N., AKTAŞ E., ARIKAN F.  
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.692-695
- XXXIII. **Synthetic TEC mapping with kriging and random field priors**  
SAYIN I., ARIKAN F., ARIKAN O.  
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.786-787
- XXXIV. **Calculation of sea radiance in infrared band**  
Erdem E., ARIKAN F., Erol C. B.  
IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.389-390

## Supported Projects

ARIKAN F., TUBITAK Project, İyonküre Havası için Risk Etkenlerinin Belirlenmesi, 2016 - Continues

ARIKAN F., Project Supported by Higher Education Institutions, Çevrimiçi IRIPlas Kullanarak Orta Enlem İyonosonda İstasyonları için Farklı Güneş Göstergelerinin Karşılaştırılması, 2017 - 2017

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