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Eğitim Bilgileri

Doktora, Northeastern University, Mühendislik Fakültesi, Elektrik Ve Bilgisayar, Amerika Birleşik Devletleri 1988 - 1992
Yüksek Lisans, Northeastern University, Mühendislik Fakültesi, Elektrik Ve Bilgisayar, Amerika Birleşik Devletleri 1986 - 1988

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik, Türkiye 1982 - 1986

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

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

Yüksek Lisans, Scattering from Finite Length Circularly Cylindrical Structures, Northeastern University, Elektrik Ve Bilgisayar Mühendisliği, 1988

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Elektromanyetik, Dalga yayılımı ve Uzaktan Algılama, Elektromanyetik Dalgalar, Antenler ve Propagasyon, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2005 - Devam Ediyor
Doç. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1999 - 2005

Yrd. Doç. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1994 - 1999

Öğretim Görevlisi Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1994

Akademik İdari Deneyim

Hacettepe Üniversitesi, Hacettepe Ankara Sanayi Odası 1. Osb Meslek Yüksekokulu, 2012 - 2014

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

Yönetilen Tezler

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

ARIKAN F., Türkiye için IONOLAB-TEC kullanılarak GPS tabanlı TEI ve alıcı yanılığı veri tabanı hazırlanması, Yüksek
Lisans, M.ŞÜKRÜ(Öğrenci), 2008

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A Method for Automatic Scaling of Ionograms and Electron Density Reconstruction**
Gok G., Alp Y. K., ARIKAN O., ARIKAN F.
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- II. **Comparison of IRI-2016 F2 Layer Model Parameters with Ionosonde Measurements**
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JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS, cilt.124, sa.10, ss.8092-8109, 2019 (SCI-Expanded)
- III. **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, cilt.172, ss.122-128, 2018 (SCI-Expanded)
- IV. **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, cilt.171, ss.277-284, 2018 (SCI-Expanded)
- V. **Model based Computerized Ionospheric Tomography in space and time**
Tuna H., Arikан O., ARIKAN F.
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- VI. **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, cilt.123, sa.2, ss.1441-1456, 2018 (SCI-Expanded)
- VII. **IONOLAB-MAP: An automatic spatial interpolation algorithm for total electron content**
Deviren M. N., ARIKAN F.
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- VIII. **Ionospheric responses during equinox and solstice periods over Turkey**
Karatay S., Cinar A., ARIKAN F.
ADVANCES IN SPACE RESEARCH, cilt.60, sa.9, ss.1958-1967, 2017 (SCI-Expanded)
- IX. **Earthquake aftereffects in the Equatorial Ionization Anomaly region under geomagnetic quiet and storm conditions**
Gulyaeva T., ARIKAN F., Stanislawska I.
Advances in Space Research, cilt.60, sa.2, ss.406-418, 2017 (SCI-Expanded)
- X. **A fast algorithm for automatic detection of ionospheric disturbances: DROT**
EFENDİ E., ARIKAN F.
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- XI. **Persistent long-term (1944-2015) ionosphere-magnetosphere associations at the area of intense**

seismic activity and beyond

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- XII. **Statistical discrimination of global post-seismic ionosphere effects under geomagnetic quiet and storm conditions**

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- XIII. **Regional ionospheric trend statistics: IONOLAB-PDF**

KÖROĞLU O., ARIKAN F.

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- XIV. **Ionolab-Ray: A wave propagation algorithm for anisotropic and inhomogeneous ionosphere**

Erdem E., ARIKAN F.

Turkish Journal of Electrical Engineering and Computer Sciences, cilt.25, sa.3, ss.1712-1723, 2017 (SCI-Expanded)

- XV. **Association of ionospheric storms and substorms of Global Electron Content with proxy AE index**

YENEN S. D., Gulyaeva T. L., ARIKAN F., Arikан O.

ADVANCES IN SPACE RESEARCH, cilt.56, sa.7, ss.1343-1353, 2015 (SCI-Expanded)

- XVI. **Regional model-based computerized ionospheric tomography using GPS measurements: IONOLAB-CIT**

Tuna H., Arikан O., ARIKAN F.

RADIO SCIENCE, cilt.50, sa.10, ss.1062-1075, 2015 (SCI-Expanded)

- XVII. **North-south components of the annual asymmetry in the ionosphere**

Gulyaeva T. L., ARIKAN F., Hernandez-Pajares M., Veselovsky I. S.

RADIO SCIENCE, cilt.49, sa.7, ss.485-496, 2014 (SCI-Expanded)

- XVIII. **Online user-friendly slant total electron content computation from IRI-Plas: IRI-Plas-STEC**

Tuna H., Arikан O., ARIKAN F., GULYAEVA T. L., SEZEN U.

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- XIX. **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, cilt.52, sa.10, ss.1837-1844, 2013 (SCI-Expanded)

- XX. **Estimation of hmF2 and foF2 Communication Parameters of Ionosphere F2-Layer Using GPS Data and IRI-Plas Model**

SEZEN U., Sahin O., ARIKAN F., Arikан O.

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- XXI. **GIM-TEC adaptive ionospheric weather assessment and forecast system**

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- XXII. **Online, automatic, near-real time estimation of GPS-TEC: IONOLAB-TEC**

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- XXIII. **Spatio-temporal interpolation of total electron content using a GPS network**

DEVIREN M. N., ARIKAN F., Arikан O.

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- XXIV. **Observed Ionospheric Effects of 23 October 2011 Van, Turkey Earthquake**

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- XXV. **Inter-hemispheric imaging of the ionosphere with the upgraded IRI-Plas model during the space weather storms**

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- EARTH PLANETS AND SPACE, cilt.63, sa.8, ss.929-939, 2011 (SCI-Expanded)
- XXVI. Probability density function estimation for characterizing hourly variability of ionospheric total electron content**
 TUREL N., ARIKAN F.
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- XXVII. Investigation of total electron content variability due to seismic and geomagnetic disturbances in the ionosphere**
 Karatay S., ARIKAN F., Arikan O.
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- XXVIII. PERFORMANCE EVALUATION OF TRACK ASSOCIATION AND MAINTENANCE FOR A MFPAR WITH DOPPLER VELOCITY MEASUREMENTS**
 Kural F., ARIKAN F., Arikan O., Efe M.
 PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, cilt.108, ss.249-275, 2010 (SCI-Expanded)
- XXIX. DAMA-Infrared Sea Modeling and Analysis Software**
 ERDEM E., ARIKAN F., EROL C. B.
 IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, cilt.47, sa.10, ss.3581-3592, 2009 (SCI-Expanded)
- XXX. A new technique for direction of arrival estimation for ionospheric multipath channels**
 Guldogan M. B., Arikan O., ARIKAN F.
 ADVANCES IN SPACE RESEARCH, cilt.44, sa.6, ss.653-662, 2009 (SCI-Expanded)
- XXXI. 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, cilt.44, sa.6, ss.641-652, 2009 (SCI-Expanded)
- XXXII. Tomographic reconstruction of the ionospheric electron density as a function of space and time**
 Erturk O., Arikan O., ARIKAN F.
 ADVANCES IN SPACE RESEARCH, cilt.43, sa.11, ss.1702-1710, 2009 (SCI-Expanded)
- XXXIII. 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, cilt.61, sa.9, ss.1103-1109, 2009 (SCI-Expanded)
- XXXIV. Regional TEC mapping with Random Field Priors and Kriging**
 SAYIN I., ARIKAN F., Arikan O.
 RADIO SCIENCE, cilt.43, sa.5, 2008 (SCI-Expanded)
- XXXV. Estimation of single station interfrequency receiver bias using GPS-TEC**
 ARIKAN F., NAYIR H., SEZEN U., Arikan O.
 RADIO SCIENCE, cilt.43, sa.4, 2008 (SCI-Expanded)
- XXXVI. Total Electron Content estimation with Reg-Est**
 NAYIR H., Arikan F., ARIKAN O., EROL C. B.
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- XXXVII. Statistical characterization of the ionosphere using GPS signals**
 EROL C., Arikan F.
 JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, cilt.19, sa.3, ss.373-387, 2005 (SCI-Expanded)
- XXXVIII. Simulation of sea clutter at various frequency bands**
 Arikan F., VURAL N.
 JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, cilt.19, sa.4, ss.529-542, 2005 (SCI-Expanded)
- XXXIX. Regularized estimation of vertical total electron content from GPS data for a desired time period**
 Arikan F., EROL C., ARIKAN O.
 RADIO SCIENCE, cilt.39, sa.6, 2004 (SCI-Expanded)
- XL. A brief review of HF channel response estimation**
 Arikan F.
 JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, cilt.18, sa.6, ss.837-851, 2004 (SCI-Expanded)
- XLI. Regularized estimation of vertical total electron content from Global Positioning System data**

- Arikan F., EROL C., ARIKAN O.
 JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS, cilt.108, 2003 (SCI-Expanded)
- XLII. Adaptive tracking of narrowband HF channel response**
 Arikan F., ARIKAN O.
 RADIO SCIENCE, cilt.38, sa.6, 2003 (SCI-Expanded)
- XLIII. Mode separation and direction of arrival estimation in HF links**
 Arikan F., YILMAZ N., ARIKAN O., MILED M.
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- XLIV. A new algorithm for high-quality ionogram generation and analysis**
 Arikan F., ARIKAN O., SALOUS S.
 RADIO SCIENCE, cilt.37, sa.1, 2002 (SCI-Expanded)
- XLV. Algorithm for high quality ionograms**
 Arikan F., SALOUS S., ARIKAN O.
 ELECTRONICS LETTERS, cilt.36, sa.11, ss.985-987, 2000 (SCI-Expanded)
- XLVI. Statistical characterization of time variability in midlatitude single-tone HF channel response**
 Arikan F., EROL C.
 RADIO SCIENCE, cilt.33, sa.5, ss.1429-1443, 1998 (SCI-Expanded)
- XLVII. Statistics of simulated ocean clutter**
 Arikan F.
 JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, cilt.12, sa.4, ss.499-526, 1998 (SCI-Expanded)
- XLVIII. A methodology for modeling and simulation of radar clutter and multipath**
 Arikan F., RAEMER H.
 JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, cilt.10, sa.2, ss.215-242, 1996 (SCI-Expanded)

Diger Dergilerde Yayınlanan Makaleler

- I. NVIS HF signal propagation in ionosphere using calculus of variations
 SEZEN U., ARIKAN F., ARIKAN O.
 GEODESY AND GEODYNAMICS, cilt.10, sa.1, ss.72-76, 2019 (ESCI)
- II. Dynamo equation solution using Finite Volume Method for midlatitude ionosphere
 ARIKAN F., SEZEN U., ARIKAN O.
 GEODESY AND GEODYNAMICS, cilt.9, sa.6, ss.425-431, 2018 (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, cilt.9, sa.5, ss.347-357, 2018 (ESCI)
- IV. Spectral investigation of traveling ionospheric disturbances: IONOLAB-FFT
 ARIKAN F., YARICI A.
 GEODESY AND GEODYNAMICS, cilt.8, sa.5, ss.297-304, 2017 (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), cilt.3, ss.144-150, 2017 (Hakemsiz Dergi)
- 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, cilt.4, ss.1-13, 2016 (Hakemli Dergi)
- VII. Performance of GPS slant total electron content and IRI-Plas-STEC for days with ionospheric disturbance
 ARIKAN F., SHUKUROV S., Tuna H., Arikan O., Gulyaeva T. L.

- VIII. **Probability of occurrence of planetary ionosphere storms associated with the magnetosphere disturbance storm time events**
Gulyaeva T., ARIKAN F., STANISLAWSKA I.
Advances in Radio Science, cilt.12, ss.261-266, 2014 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Comparison of IRI-Plas STEC and IONOLAB-STEC over a Midlatitude GPS Network**
Yenen S. D., ARIKAN F., Gulyaeva T.
9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 11 - 14 Haziran 2019, ss.649-653
- II. **Ionogram Scaling using Hidden Markov Models**
Gok G., Alp Y. K., ARIKAN O., ARIKAN F.
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- III. **Fusion of ionosonde measurements and TEC estimations using statistical techniques**
KÖROĞLU O., ARIKAN F., TOKER C., ARTUNER H., Mošna Z.
The second VarSITI General Symposium (VarSITI-2017), Irkutsk, Rusya, 10 - 15 Temmuz 2017
- IV. **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, Kanada, 19 - 26 Ağustos 2017
- V. **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, Kanada, 19 - 26 Ağustos 2017
- VI. **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, Kanada, 19 - 26 Ağustos 2017
- VII. **Statistical Analysis of the Ionosphere based on Singular Value Decomposition**
DEMİR U., Deviren M. N., TOKER C., ARIKAN F.
41st COSPAR Scientific Assembly, 30 Temmuz - 07 Ağustos 2016
- VIII. **The Seasonal Anomalies in Ionosphere over Turkey**
ÇINAR A., KARATAY S., Arıkan F.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1137-1140
- IX. **SPACE WEATHER STUDIES OF IONOLAB GROUP**
ARIKAN F., SEZEN U., TOKER C., ARTUNER H., BULU G., DEMİR U., ERDEM E., Arıkan O., Tuna H., Karatay S., et al.
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- X. **Improved IONOLAB TEC Space Weather Service**
ARIKAN F., SEZEN U., TOKER C., BULU G., ARTUNER H., KARATAY S.
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- XI. **Online IRI Plas Interface Service by IONOLAB**
ARIKAN F., TL G., TOKER C., SEZEN U., ARTUNER H.
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- XII. **Computation of Fresnel Integral by Fractional Fourier Transform Methods**
SAYIN I., ARIKAN F., ARIKAN O.
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- XIII. **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, Türkiye, 16 - 19 Haziran 2015, ss.488-493
- XIV. **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, Türkiye, 16 - 19 Haziran 2015, ss.515-518
- XV. **A Model Based Ray Tracing Algorithm for Anisotropic and Inhomogeneous Ionosphere with GIM-TEC Assimilation**
Erdem E., ARIKAN F., Deviren M. N., Cor I.
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- XVI. **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, İspanya, 16 - 24 Mayıs 2015
- XVII. **3D Electron Density Estimation in the Ionosphere**
Tuna H., ARIKAN O., ARIKAN F.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Türkiye, 23 - 25 Nisan 2014, ss.529-532
- XVIII. **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, Türkiye, 23 - 25 Nisan 2014, ss.1063-1066
- XIX. **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, Türkiye, 23 - 25 Nisan 2014, ss.915-918
- XX. **Investigation of Short-Period Ionospheric Variation over Turkey**
Deviren M. N., ARIKAN F., ARIKAN O.
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- XXI. **REMOTE SENSING AND 2-D IMAGING OF IONOSPHERE BY IONOLAB GROUP**
ARIKAN F., TOKER C., SEZEN U., Deviren M. N., Cilibas O., ARIKAN O.
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- XXII. **Ray Tracing on Stratified Plane Ionosphere Model**
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- XXIII. **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, Türkiye, 23 - 25 Nisan 2014, ss.590-593
- XXIV. **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, Türkiye, 9 - 12 Temmuz 2013, ss.1658-

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- XXV. **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 Nisan 2013

- XXVI. **AUTOMATIC REGIONAL MAPPING OF TOTAL ELECTRON CONTENT USING A GPS SENSOR NETWORK AND ISOTROPIC UNIVERSAL KRIGING**

Deviren M. N., ARIKAN F., ARIKAN O.

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- XXVII. **Global Mapping of Hourly TEC and Ionospheric Critical Parameters by Using IRI-Plas Optimization**
Cilibas O., SEZEN U., ARIKAN F., Gulyaeva T.

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- XXVIII. **Estimation of 3D Electron Density in the Ionosphere By Using Fusion of GPS Satellite-Receiver Network Measurements and IRI-Plas Model**

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- XXIX. **IRI-Plas Optimization Based Ionospheric Tomography**

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- XXX. **ANALYSIS OF PROBABILITY DENSITY FUNCTIONS OF TOTAL ELECTRON CONTENT FOR MAGNETIC CONJUGATE LOCATIONS**

Sapaz M. S., ARIKAN F., Gulyaeva T., Koroglu O.

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- XXXI. **Space Weather Activities of IONOLAB Group TEC Mapping**

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