

Assoc. Prof. ERTUĞRUL AKSOY

Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2008 - 2012

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2005 - 2008

Under Graduate, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2000 - 2005

Dissertations

Doctorate, Zaman modülasyonlu anten dizileri için dizi seyreltme, yanbant analizi ve darbe eniyilemesi, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2012

Post Graduate, Diferensiyel evrim algoritması ile anten dizilerinde örüntü şekillendirme, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2007

Research Areas

Electrical and Electronics Engineering, Electromagnetic, Wave Propagation and Remote Sensing, Electric and Magnetic Fields, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits, Planar Buildings, Technical Textiles

Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2017 - Continues

Assistant Professor, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2017

Research Assistant, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2005 - 2014

Courses

Electromagnetic Field Theory, Under Graduate, 2020 - 2021

Mathematical Methods in EE Engineering, Post Graduate, 2020 - 2021

Engineering Mathematics, Under Graduate, 2017 - 2018, 2020 - 2021

EEM101E Introduction to EE Engineering, Under Graduate, 2017 - 2018

EEM101E Introduction to Electrical and Electronics Engineering, Under Graduate, 2016 - 2017

EM598 Faz Dizili Anten Tasarımı, Post Graduate, 2016 - 2017

EEM352E Electromagnetic Waves, Under Graduate, 2016 - 2017

Advancing Researches

- AKSOY E., Frequency Selective Surfaces Application With Apollonius Circles, Post Graduate, S.HABERGÖTÜREN(Student), 2018
- AKSOY E., Design Of Adaptive Gps Jamming Mitigation System Through Taguchi'S Method, Post Graduate, S.SELÇUK(Student), 2018
- AKSOY E., A Study To Enhance Night Flying Safety For Rotary Wing Pilots, Post Graduate, E.ÇALIMFİDAN(Student), 2015
- AKSOY E., Zaman modülasyonlu doğrusal anten dizileri kullanılarak çift kanal genlik modülasyon alıcı tasarımı, Post Graduate, Y.YAVUZ(Student), 2015

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

- I. **A Noniterative Convolved Harmonic Beamforming Technique in Time Modulated Arrays**
YEŞİLYURT U., KANBAZ İ., Kuzu S., AKSOY E.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.69, no.2, pp.795-805, 2021 (Journal Indexed in SCI)
- II. **Design and analysis of angular stable antipodal F-type frequency selective surface with multi-band characteristics**
Karahana M., AKSOY E.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.30, no.12, 2020 (Journal Indexed in SCI)
- III. **Total Harmonic Power of Arbitrarily Switched Nonuniform Period Time-Modulated Arrays**
KANBAZ İ., YEŞİLYURT U., Kuzu S., AKSOY E.
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.19, no.1, pp.193-197, 2020 (Journal Indexed in SCI)
- IV. **A multibeam subarrayed time-modulated linear array**
YEŞİLYURT U., KANBAZ İ., AKSOY E.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.2, pp.784-798, 2020 (Journal Indexed in SCI)
- V. **A Study on Harmonic Power Calculation for Nonuniform Period Linear Time Modulated Arrays**
KANBAZ İ., YEŞİLYURT U., AKSOY E.
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.17, no.12, pp.2369-2373, 2018 (Journal Indexed in SCI)
- VI. **Estimating the parameters of 3-p Weibull distribution using particle swarm optimization: A comprehensive experimental comparison**
ÖRKÜ H. H. , Ozsoy V. S. , AKSOY E., Dogan M. I.
APPLIED MATHEMATICS AND COMPUTATION, vol.268, pp.201-226, 2015 (Journal Indexed in SCI)
- VII. **Estimating the parameters of 3-p Weibull distribution through differential evolution**
ÖRKÜ H. H. , AKSOY E., Dogan M. I.
APPLIED MATHEMATICS AND COMPUTATION, vol.251, pp.211-224, 2015 (Journal Indexed in SCI)
- VIII. **Calculation of Sideband Radiations in Time-Modulated Volumetric Arrays and Generalization of the Power Equation**
Aksoy E.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.62, no.9, pp.4856-4860, 2014 (Journal Indexed in SCI)
- IX. **An Inequality for the Calculation of Relative Maximum Sideband Level in Time-Modulated Linear and Planar Arrays**
AKSOY E., AFACAN E.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.62, no.6, pp.3392-3397, 2014 (Journal Indexed in SCI)
- X. **A Comparative Study on Sideband Optimization in Time-Modulated Arrays**
AKSOY E., AFACAN E.
INTERNATIONAL JOURNAL OF ANTENNAS AND PROPAGATION, vol.2014, 2014 (Journal Indexed in SCI)
- XI. **Calculation of Sideband Power Radiation in Time-Modulated Arrays With Asymmetrically Positioned**

Pulses

AKSOY E., AFACAN E.

IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.11, pp.133-136, 2012 (Journal Indexed in SCI)

XII. Thinned Nonuniform Amplitude Time-Modulated Linear Arrays

AKSOY E., AFACAN E.

IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.9, pp.514-517, 2010 (Journal Indexed in SCI)

XIII. Planar antenna pattern nulling using differential evolution algorithm

AKSOY E., AFACAN E.

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.63, no.2, pp.116-122, 2009
(Journal Indexed in SCI)

Books & Book Chapters

I. Advances in Array Optimization

Aksoy E. (Editor)

in: Advances in Array Optimization, Ertuğrul Aksoy, Editor, InTech, London, pp.1-133, 2020

II. Optimization Approaches in Sideband Calculations and a Non- Iterative Harmonic Suppression Strategy in 4D Arrays

Aksoy E., Yavuz Y., Karahan M.

in: Compendium of New Techniques in Harmonic Analysis, Moulay Tahar Lamchich, Editor, InTech, London, pp.75-97, 2018

Refereed Congress / Symposium Publications in Proceedings

I. Zaman Modülasyonlu Dizilerde Hüzme Yönlendirme Üzerine Bir Çalışma

YEŞİLYURT U., KANBAZ İ., KUZU S., AKSOY E.

2. Ulusal Mühendislikte Bilimsel ve Mesleki Çalışmalar Kongresi, Turkey, 7 - 10 November 2019

II. Zaman Modülasyonlu Dizilerde Değişen Genlikli Darbe Anahtarlama Kullanarak Örüntü Sentezi

KANBAZ İ., YEŞİLYURT U., KUZU S., AKSOY E.

2. Ulusal Mühendislikte Bilimsel ve Mesleki Çalışmalar Kongresi, Ankara, Turkey, 7 - 10 November 2019

III. A Dual-Band Notch Filter Based on Frequency Selective Surface for Ku-Band Operations

NOAMADEH Z., AKSOY E.

6th International Multidisciplinary Studies Congress, 26 - 27 August 2019

IV. An Ultra Wideband Band-Stop Frequency Selective Surface Filter for the C-band and X-band Applications

NOAMADEH Z., AKSOY E.

6th International Multidisciplinary Studies Congress, 26 - 27 August 2019

V. Optimization of Time Modulated Arrays Through Switching Frequency

KANBAZ İ., YEŞİLYURT U., Kuzu S., AKSOY E.

11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.664-668

VI. Multi-channel Thinned Array with the Sinusoidal Excitation Waveform

YEŞİLYURT U., KANBAZ İ., Kivu S., AKSOY E.

11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.655-658

VII. Harmonic Beam Steering through Dual-Phase Variable Pulse Amplitude Switching Strategy in Time Modulated Linear Arrays

Yesilyurt U., Kanbaz I., Kuzu S., Aksoy E.

27th Telecommunications Forum (TELFOR), Belgrade, Serbia, 26 - 27 November 2019, pp.422-425

- VIII. **WLAN Uygulamaları için İkili Bant Durdurucu Minyatürize Frekans Seçici Yüzey Tasarımı**
HABERGÖTÜREN ATEŞ S., AKSOY E.
9. URSI-Türkiye Kongresi (URSI'2018), Turkey, 6 - 08 September 2018
- IX. **Zaman Modülasyonlu Doğrusal Dizilerde Yan Kulakçık ve Yanbant Seviyelerinin Bastırılması İçin İki Aşamalı Bir Eniyileme Yaklaşımı**
YEŞİLYURT U., KANBAZ İ., AKSOY E.
9. URSI-Türkiye Kongresi (URSI'2018), Turkey, 6 - 08 September 2018
- X. **Tekdüze Olmayan Zaman Modülasyonlu Doğrusal Dizi Anten Sistemlerinde Güç Hesabı Üzerine Bir Çalışma**
KANBAZ İ., YEŞİLYURT U., AKSOY E.
9. URSI-Türkiye Kongresi (URSI'2018), Turkey, 6 - 08 September 2018
- XI. **Tekdüze Olmayan Zaman Modülasyonlu Doğrusal Dizi Anten Sistemlerinde Dinamik Verimliliğin Hesaplanması Üzerine Bir Çalışma**
KANBAZ İ., YEŞİLYURT U., AKSOY E.
9. URSI-Türkiye Kongresi (URSI'2018), Turkey, 6 - 08 September 2018
- XII. **A Two-Stage Optimization Approach to Suppression of Side Lobe and Sideband Levels in Time-Modulated Linear Arrays**
YEŞİLYURT U., KANBAZ İ., AKSOY E.
International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 1 - 03 November 2018
- XIII. **A New Approach for Harmonic Power Calculation of Nonuniform Time Modulated Arrays**
KANBAZ İ., YEŞİLYURT U., AKSOY E.
International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 1 - 03 November 2018
- XIV. **Control of Harmonic Patterns Using Shifted Variable Pulse Amplitude Excitation Strategy in 4D Arrays**
YAVUZ Y., AKSOY E., KARAHAN M.
5th International Symposium on Innovative Technologies in Engineering and Science (ISITES'2017), Baku, Azerbaijan, 29 - 30 September 2017
- XV. **Sideband Suppression Through the Frequency of Sinusoidal Variable Pulse Amplitude Time Scheme in TMAs**
YAVUZ Y., AKSOY E., KARAHAN M.
5th International Symposium on Innovative Technologies in Engineering and Science (ISITES'2017), Baku, Azerbaijan, 29 - 30 September 2017
- XVI. **Analysis of apollonius circles fractals as frequency selective surface**
HABERGÖTÜREN ATEŞ S., KUZU S., AKSOY E., AKÇAM N.
2017 18th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF), 14 - 16 September 2017
- XVII. **An FSS Structure Based on Apollonius Circles with Stable Resonance Frequency for WLAN Applications**
Ateş S. H., Karahan M., Yavuz Y., Kuzu S., AKSOY E.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1396-1398
- XVIII. **A Dual-Band Frequency Selective Surface Structure with Stable Performance for Oblique Incidence**
Karahan M., Yavuz Y., Ateş S. H., AKSOY E.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1096-1098
- XIX. **A Frequency Selective Surface Design To Reduce The Interference Effect On Satellite Communication**
Karahan M., AKSOY E., Yavuz Y.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.221-223

- XX. **GPS Jamming Mitigation through Taguchi's Optimization Method**
Ozdemir S. S. , AKSOY E.
25th Telecommunication Forum (TELFOR), Belgrade, Serbia, 21 - 22 November 2017, pp.147-150
- XXI. **A Simultaneous Dual Channel Communication Concept over 4D Arrays in Satellite Networks**
Yavuz Y., AKSOY E., Karahan M.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.225-228
- XXII. **Kayıplı Düzlemsel Yarı Uzay Üzerindeki Dikey Dipol Antenin Işıma Örüntüsünün İncelenmesi**
Yücedağ O. M. , Yazıcı C., AKSOY E.
23. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU'xx2015), Malatya, Turkey, 16 - 19 May 2015
- XXIII. **Düzlemsel Yer Yüzü Üzerinde Dikey Konumlanmış Farklı Uzunluktaki Dipol Antenlerin Işıma Örüntülerinin İncelenmesi**
Yazıcı C., Yücedağ O. M. , AKSOY E.
8. Mühendislik ve Teknoloji Sempozyumu (MTS), Ankara, Turkey, 14 - 15 May 2015
- XXIV. **Design of Wideband Conformal Antenna Array at X-band for satellite applications**
Karahan M., AKSOY E., Armagan Sahinkaya D. S.
7th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 16 - 19 June 2015, pp.397-400
- XXV. **Investigation of Dipole Antenna Radiation Pattern Over Planar Lossy Half-Space**
Yucedag O. M. , Yazici C., AKSOY E.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.649-652
- XXVI. **A Dual Channel AM Receiver Structure in 4D Arrays**
Yavuz Y., Karahan M., AKSOY E.
IEEE International Symposium on Antennas and Propagation / USNC/URSI National North American Radio Science Meeting, Vancouver, Canada, 19 - 24 July 2015, pp.804-805
- XXVII. **Time Modulation through Variable Pulse Amplitude in 4D Arrays**
AKSOY E.
13th International Conference on Telecommunications and Informatics (TELE-INFO 'xx2014), 15 - 17 December 2014, pp.12-22
- XXVIII. **Zaman Modülasyonlu Dizilerde Yanbant Bastırım Eniyilemesi Üzerine İstatistiksel Regresyon Analizine Dayalı Bir Değerlendirme**
AKSOY E., ÖRKCÜ H. H. , DOĞAN M. İ.
URSI-TÜRKİYE'2014 VII. Bilimsel Kongresi (URSI'xx2014), Turkey, 28 - 30 August 2014
- XXIX. **A Comparative Study on Time Modulated Uniform Circular Arrays in Terms of Total Sideband Power Loss**
AKSOY E.
2nd International Symposium On Innovative Technologies In Engineering And Science (ISITES'xx2014), 18 - 20 July 2014, pp.1249-1257
- XXX. **Investigation of the Effect of Maximum Sideband Level Inequality to the Solution Time in Time Modulated Small Sized Linear Arrays**
AKSOY E.
2nd International Symposium On Innovative Technologies In Engineering And Science (ISITES'xx2014), 18 - 20 July 2014
- XXXI. **Harmonic Beam Steering in 4D Linear Arrays through Pulse Difference**
AKSOY E.
22nd Telecommunications Forum Telfor (TELFOR), Belgrade, Serbia, 25 - 27 November 2014, pp.792-794
- XXXII. **Harmonic Beam Steering in Time-Modulated Arrays with Simultaneous Sidelobe Control**
AKSOY E.
2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 28 - 29 November 2014

- XXXIII. **TOTAL SIDEBAND POWER CALCULATION FOR TIME-MODULATED CONFORMAL ARRAYS**
Aksoy E.
10th International Conference on Electronics, Computer and Computation (ICECCO), Ankara, Turkey, 7 - 09 November 2013, pp.339-342
- XXXIV. **Effect of Pulse Position on Total Sideband Radiation in Time Modulated Uniform Antenna Arrays**
AKSOY E.
12th Mediterranean Microwave Symposium (MMS'xx2012), İstanbul, Turkey, 2 - 05 September 2012
- XXXV. **Eşdağılımlı Kısmi Zaman Modülasyonlu Doğrusal Dizilerde Anahtarlama Süresinin Maksimum Yanbant Düzeyine Etkisi**
AKSOY E.
6. URSI-Türkiye Kongresi (URSI'xx2012), İstanbul, Turkey, 2 - 05 September 2012
- XXXVI. **An Inequality for Calculation of Maximum Sideband Level in Time Modulated Linear Arrays**
AKSOY E.
12th Mediterranean Microwave Symposium (MMS'2012), İstanbul, Turkey, 2 - 05 September 2012
- XXXVII. **Design of Asymmetrically Switched Linear Chebyshev Array with Minimum Harmonic Power Loss**
AKSOY E.
9th International Conference on Electronics Computer and Computation (ICECCO 2012), Ankara, Turkey, 1 - 03 November 2012, pp.112-115
- XXXVIII. **Accelerating the Determination of Maximum Sideband Level in Time-Modulated Linear Array Design**
AKSOY E.
9th International Conference on Electronics Computer and Computation (ICECCO 2012), Ankara, Turkey, 1 - 03 November 2012, pp.116-119
- XXXIX. **Zaman Modülasyonlu Doğrusal Dizilerde Yanbant Düzeyi ve Örüntü Sıfırı Kontrolü**
AKSOY E., AFACAN E.
IEEE 19. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU'xx2011), Antalya, Turkey, 20 - 22 April 2011, pp.351-354
- XL. **Sideband Level Suppression Improvement via Splitting Pulses in Time Modulated Arrays under Static Fundamental Radiation**
Aksoy E., AFACAN E.
Progress In Electromagnetics Research Symposium, Suzhou, China, 12 - 16 September 2011, pp.364-367
- XLI. **Generalized Representation of Sideband Radiation Power Calculation in Arbitrarily Distributed Time-modulated Planar and Linear Arrays**
Aksoy E., AFACAN E.
Progress In Electromagnetics Research Symposium, Suzhou, China, 12 - 16 September 2011, pp.368-371
- XLII. **Anten Uygulamalarına Yönelik Diferansiyel Evrim Algoritması için Performans Artırımı**
AKSOY E., AFACAN E.
5. Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu (ELECO'xx2008), Bursa, Turkey, 26 - 30 November 2008, pp.96-99
- XLIII. **Pattern Nulling in Linear Arrays with Fewer Elements by Using Differential Evolution Algorithm**
AKSOY E., AFACAN E.
5th International Conference on Electrical and Electronics Engineering (ELECO'xx2007), Bursa, Turkey, 5 - 09 December 2007, pp.260-264
- XLIV. **Düzlemsel Anten Dizilerinde Diferansiyel Evrim Algoritması ile Örüntü Sıfırlama**
AKSOY E., AFACAN E.
4. Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu (ELECO'xx2006), Bursa, Turkey, 6 - 10 December 2006, pp.77-79

Citations

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