

## Prof. Erdem Yazgan

### Personal Information

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**Other Email:** [yazgan@hacettepe.edu.tr](mailto:yazgan@hacettepe.edu.tr)

**Web:** <https://avesis.tedu.edu.tr/erdem.yazgan>

### International Researcher IDs

ScholarID: [pj-k3PEAAAAJ](#)

ORCID: 0000-0003-4957-1173

Publons / Web Of Science ResearcherID: G-6303-2018

ScopusID: 7003893885

Yoksis Researcher ID: 7278

### Biography

Erdem Yazgan

Erdem Yazgan received the B.S. and M.S. degrees from the Middle East Technical University, Ankara, Turkey, and the PhD. Degree from Hacettepe University, Ankara, Turkey in 1980, all in Electrical and Electronics Engineering. In 1989 she was a Visiting Professor with Essex University, Essex, U.K. In 1994-1995 she was with the Electrosience Laboratory, The Ohio State University, Columbus, USA. Between 1990 and 2015, she was a Professor at the Department of Electrical and Electronics Engineering, Hacettepe University.

She worked as an advisor in World Bank Industrial Training Project, TAFICS – NATO, TÜBİTAK-Space Institute for Göktürk-II, METU, Information Technology Division (BTK) Lab. H.U. Teknokent Radio-TV Standardisation Committee of the Standardisation Institute of Turkey and Defense Electronics Firms. Her research interests include HF Propagation, Low Altitude Radar Systems, Mobile Communications, MIC's, Reflector and Microstrip Antennas, Gaussian Beam Solutions, Conformal Mapping, Satellite Communication and Medical Electronics.

Professor Dr.Erdem Yazgan joined the Engineering faculty of TED University as Chair for Electrical-Electronics Engineering in 2015. she is married and mother of two children

#### Research Areas:

- Electrical and Electronic Engineering
- Microwave and Millimetrewave Theory and Technology

#### Research Interests:

HF Propagation, Low Altitude Radar Systems, Mobile Communications, MIC's, Reflector and Microstrip Antennas, Gaussian Beam Solutions, Conformal Mapping, Satellite Communication and Medical Electronics

### Foreign Languages

## Certificates, Courses and Trainings

BSc, Middle East Technical University, Continues

PhD, Hacettepe University, Continues

Msc, Middle East Technical University, Continues

IT, CTL: Defining the Future of Universities through Learning Innovation, TED UNIVERSITY, 2022

Innovation Management, Self and Peer Evaluation in Education, TED Üniversitesi, 2022

Data Analysis, CTL: TEDU Academic Activity Reporting System Training, TED Üniversitesi, 2022

Education Management and Planning, CTL: Learning-Centered Course Design and Delivery, TED Üniversitesi, 2022

Project Management, TÜBİTAK [ARBİS] Teknoloji Odaklı Sanayi Hamlesi Programı Mobilite Çağrısı Kapsamında Desteklenen Projelere Yönelik Tanıtım ve Bilgilendirme Toplantısı, SANAYİ BAKANLIĞI, 2022

Vocational Training, CTL: Adult Education: From Theory to Practice, TED Üniversitesi, 2022

Vocational Training, YÖRÜNGELİ AÇISAL MOMENT TAŞIYAN ELEKTROMANYETİK DALGALAR, TÜBİTAK, 2022

Vocational Training, Optical Waveguide Simulations, SPIE, 2022

Vocational Training, CTL: Etkileşimli Öğrenme: Pandemi Deneyimleri Üzerine Yansımalar, TED Üniversitesi, 2022

Education Management and Planning, CTL: Regulations for Academic Research Incentive, TED UNIVERSITY, 2022

IT, Accelerating Institutional Success and Innovation through Digital Learning Tools, TED UNIVERSITY, 2022

Innovation, Fotoğrafi Okumak, Fotoğrafi Okumak, 2022

Other, Stochastic Light Beams in Free Space and Atmospheric Communications, TED UNIVERSITY, 2022

Vocational Training, What's new in SIMULIA CST Studio Suite 2022, CST Firm, 2022

New Service Design, CTL: Aday Öğrenci İletişim ve Tanıtım Faaliyetleri, TED UNIVERSITY, 2022

Personal Evolution, Elektronik Belge Yönetimi Sistemi (EBYS) , TED Üniversitesi, 2022

Personal Evolution, CTL : Bilim ve Teknolojide Kadının Gücü , TED UNIVERSITY, 2022

Education Management and Planning, CTL: Açık ve Uzaktan Öğrenme: Nedir? Neredeyiz? Neler Yapabiliriz?, TED Üniversitesi, 2022

Education Management and Planning, CTL: European Research Council (ERC) Hibeleri Bilgi Günü, TED Üniversitesi, 2022

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Professor, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2015 - 2020

## Academic and Administrative Experience

Organization of works of Honor Students of EE Eng. Department, 2020 - Continues

Member of Credit Transfer Committee of Students to EE Department, 2020 - Continues

Member of committee of research assistant exam, 2019 - Continues

Faculty Board of Management, 2019 - Continues

Member of Engineering Faculty Board, 2019 - 2021

Head of the Department, TED University, Faculty of Engineering, Dept.of Electric&Electronics Engineering, 2015 - 2021

Member of Entrance Exam Committee of Mechatronics Master of Science, 2020 - 2020

## Courses

Electromagnetic Theory I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Senior Project II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Summer Practice I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Electromagnetic Theory II, Undergraduate, 2021 - 2022

Applied Electromagnetics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Microwave Engineering, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Master's Thesis II, Postgraduate, 2022 - 2023

Senior Project I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Summer Practice II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Electromagnetic Fields and Waves, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Circuit Theory I, Undergraduate, 2019 - 2020, 2018 - 2019

Electrical Circuits Laboratory, Undergraduate, 2019 - 2020, 2018 - 2019

Fundamentals of Electrical and Electronics Engineering, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Antenna Engineering, Undergraduate, 2016 - 2017, 2015 - 2016

Lineer Algebra and Differential Equations, Undergraduate, 2015 - 2016

Microwave Electronics, Undergraduate, 2015 - 2016

Communication Systems I, Undergraduate, 2014 - 2015

Vector and Complex Calculus, Undergraduate, 2014 - 2015

## Advising Theses

Yazgan E., please see CV at "<https://avesis.tedu.edu.tr/erdem.yazgan>" for the other thesis, Postgraduate, P.and(Student), Continues

Yazgan E., Arıkan K. B., FIRE DETECTION ROBOT SYSTEM WITH GSM TECHNOLOGY , Postgraduate, E.Çoşkuner(Student), 2023

Yazgan E., DESIGN OF DUAL MODE DIELECTRIC RESONATOR (DR) FILTER, Doctorate, S.Ekici(Student), 2022

Arıkan K. B., Yazgan E., Cognitive Modelling and Analysis of Leader-Follower Modality Using Experimental Data, Postgraduate, Ö.Karaca(Student), 2022

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, December, 2023

Post Graduate, Post Graduate, Gazi University, December, 2023

Post Graduate, Post Graduate, Gazi University, December, 2023

Post Graduate, Post Graduate, Gazi University, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, December, 2023

Doctorate, Doctorate, Gazi University, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, December, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, December, 2023

Doctoral Examination, Doctoral Examination, Gazi University, October, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, TED University, October, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, TED University, October, 2023

Post Graduate, Post Graduate, Çankaya Üniversitesi, September, 2023

Post Graduate, Post Graduate, Gazi Üniversitesi, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, July, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Gazi University, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, June, 2023

Post Graduate, Post Graduate, Hacettepe Üniversitesi, June, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi University, May, 2023

Doctoral Examination, Doctoral Examination, Gazi University, April, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Bahcesehir University, March, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Iskenderun Technical University, March, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, TED University, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, December, 2022

Doctorate, Doctorate, Hacettepe Üniversitesi, November, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Cankaya University, November, 2022

Post Graduate, Post Graduate, TED University, August, 2022

Post Graduate, Post Graduate, TED University, August, 2022

Award, FULBRIGHT TURKEY STUDENT CORE PROGRAM (SCP) MASTER'S & PHD GRANT, FULBRIGHT COMMISSION, June, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Ostim Technical University, June, 2022

Associate Professor Exam, Associate Professor Exam, Iskenderun Technical University, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Hacettepe University, May, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, TED University, April, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Ostim Technical University, March, 2022

Associate Professor Exam, Associate Professor Exam, Kocaeli University, February, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Kırgızistan-Türkiye Manas Üniversitesi, February, 2022

Doctorate, Doctorate, Kirikkale University, January, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Gazi University, January, 2022

September, 2021

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May, 2021

April, 2021

April, 2021

April, 2021  
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19. TESİD 2020 YENİLİKÇİLİK-YARATICILIK ÖDÜLLERİ'nin değerlendirme Jüri Üyesi Grup I ve II, February, 2021  
February, 2021  
January, 2021  
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January, 2020  
TESİD Yenilikçilik ve Yaratıcılık Ödülleri, TÜRKİYE ELEKTRONİK SANAYİCİLER DERNEĞİ İstanbul, January, 2020  
December, 2019  
October, 2019  
July, 2019  
June, 2019  
TUBİTAK-Post-doctoral scholarship abroad selection jury, TUBİTAK, April, 2019  
January, 2019  
17.TESİD Yenilikçilik ve Yaratıcılık Ödülleri, January, 2019

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

- I. **BLOCKBOX: Blockchain based black box designing and modeling**  
Korkuc C., Aytas Korkmaz N., Genc Y., Akkoc A., AFACAN E., Yazgan E.  
Concurrency and Computation: Practice and Experience, 2024 (SCI-Expanded)
- II. **Time Invariant and Localized Secure Reception with Sequential Multi-Carrier Receive-FDA**  
Akkoc A., Korkmaz N. A., Genc Y., AFACAN E., Yazgan E.  
IEEE Transactions on Antennas and Propagation, vol.71, no.9, pp.7064-7072, 2023 (SCI-Expanded)
- III. **ELCPAS: A new efficient lightweight certificateless conditional privacy preserving authentication scheme for IoV**

Genc Y., Aytas N., Akkoc A., AFACAN E., Yazgan E.

Vehicular Communications, vol.39, 2023 (SCI-Expanded)

- IV. **A Novel Identity-Based Privacy-Preserving Anonymous Authentication Scheme for Vehicle-to-Vehicle Communication**  
Genc Y., Korkuc C., Aytas N., AFACAN E., SAZLI M. H., Yazgan E.  
Elektronika ir Elektrotechnika, vol.29, no.2, pp.69-77, 2023 (SCI-Expanded)
- V. **Dual mode dielectric resonator filter with a new source coupling slot approach**  
Ekici S., Yazgan E.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.64, no.10, pp.1707-1712, 2022 (SCI-Expanded)
- VI. **A Compact Bandstop Filter Design Using DMS-DGS Technique for Radar Applications**  
Dokmetas B., Arican G. O., Akçam N., Yazgan E.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.36, no.11, pp.1460-1467, 2021 (SCI-Expanded)
- VII. **Dot-Shaped 3D Range-Angle Dependent Beamforming With Discular Frequency Diverse Array**  
Akkoc A., AFACAN E., Yazgan E.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.69, no.10, pp.6500-6508, 2021 (SCI-Expanded)
- VIII. **Ku-band GaAs mHEMT MMICandRFfront-end module for space applications**  
Arican G. O., AKÇAM N., Yazgan E.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.63, no.2, pp.417-425, 2021 (SCI-Expanded)
- IX. **Dual mode filter with tunable cross Iris**  
Ekici S., Yazgan E.  
ELECTROMAGNETICS, vol.41, no.1, pp.1-9, 2021 (SCI-Expanded)
- X. **Application of equivalent paraboloid antenna and equivalent feed methods for off-focus fed dual asymmetric reflectors**  
Turgut G., Yazgan E.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.4, pp.1929-1938, 2019 (SCI-Expanded)
- XI. **A folded leg Ka-band RF MEMS shunt switch with amorphous silicon (a-Si) sacrificial layer**  
Demirel K., Yazgan E., DEMİR Ş., AKIN T.  
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.23, no.5, pp.1191-1200, 2017 (SCI-Expanded)
- XII. **A New Temperature-Tolerant RF MEMS Switch Structure Design and Fabrication for Ka-Band Applications**  
Demirel K., Yazgan E., DEMİR Ş., AKIN T.  
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol.25, no.1, pp.60-68, 2016 (SCI-Expanded)
- XIII. **Cantilever type radio frequency microelectromechanical systems shunt capacitive switch design and fabrication**  
Demirel K., Yazgan E., DEMİR Ş., AKIN T.  
JOURNAL OF MICRO-NANOLITHOGRAPHY MEMS AND MOEMS, vol.14, no.3, 2015 (SCI-Expanded)
- XIV. **On the Design and Performance Analysis of Low-Correlation Compact Space-Multimode Diversity Stacked Microstrip Antenna Arrays for MIMO-OFDM WLANs over Statistically-Clustered Indoor Radio Channels**  
Savascıhabes A., ERTUĞ Ö., Yazgan E.  
RADIOENGINEERING, vol.24, no.1, pp.54-63, 2015 (SCI-Expanded)
- XV. **Analysis of Annular Ring Microstrip Antenna with Air Gap and Uniaxial Substrate Superstrate Layers**  
GÜREL Ç. S., Yazgan E.  
WIRELESS PERSONAL COMMUNICATIONS, vol.78, no.2, pp.1249-1255, 2014 (SCI-Expanded)
- XVI. **Receiver-aperture averaging of annular beams propagating through turbulent atmosphere**  
Kamacıoglu C., Baykal Y., Yazgan E.  
OPTICAL ENGINEERING, vol.52, no.12, 2013 (SCI-Expanded)
- XVII. **Averaging of receiver aperture for flat-topped incidence**

Kamacioglu C., Baykal Y., Yazgan E.

OPTICS AND LASER TECHNOLOGY, vol.52, pp.91-95, 2013 (SCI-Expanded)

**XVIII. SIMPLE ANALYTICAL CALCULATION APPROACH FOR INPUT IMPEDANCE OF PRINTED MONOPOLE AND DIPOLE ANTENNAS ON THIN SUBSTRATE**

Akan V., Yazgan E.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.53, no.4, pp.827-830, 2011 (SCI-Expanded)

**XIX. New analytical input impedance calculation for fast design of printed narrow slot antenna**

Akan V., Yazgan E.

INTERNATIONAL JOURNAL OF ELECTRONICS, vol.98, no.9, pp.1229-1237, 2011 (SCI-Expanded)

**XX. RESONANCE IN MICROSTRIP RING RESONATOR WITH UNIAXIALLY ANISOTROPIC SUBSTRATE AND SUPERSTRATE LAYERS**

GÜREL Ç. S., Yazgan E.

JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.24, no.8-9, pp.1135-1144, 2010 (SCI-Expanded)

**XXI. Resonant frequency of air gap tuned circular microstrip antenna with anisotropic substrate and superstrate layers**

GÜREL Ç. S., Yazgan E.

Journal of Electromagnetic Waves and Applications, vol.24, no.13, pp.1731-1740, 2010 (SCI-Expanded)

**XXII. Conductor loss calculation of elliptical, cylindrical coplanar waveguides and coplanar waveguides with finite conductor thickness**

Duyar M., Akan V., Yazgan E., Bayrak M.

INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, vol.29, no.3-4, pp.185-195, 2009 (SCI-Expanded)

**XXIII. Analytical attenuation calculation of asymmetrical coplanar waveguide with finite-extent ground planes for coplanar waveguide mode**

Duyar M., Akan V., Yazgan E., Bayrak M.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.49, no.9, pp.2082-2087, 2007 (SCI-Expanded)

**XXIV. Computation and optimization of resonant frequency and input impedance of a coax-fed circular patch microstrip antenna**

GÜREL Ç. S., Aydin E., Yazgan E.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.49, no.9, pp.2263-2267, 2007 (SCI-Expanded)

**XXV. Quasi-static solutions of elliptical, cylindrical-coupled parallel coplanar waveguide, and coupled parallel coplanar waveguide with finite ground planes**

Duyar M., Akan V., Yazgan E., Bayrak M.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.49, no.7, pp.1702-1708, 2007 (SCI-Expanded)

**XXVI. Two novel transmission lines with vertical conductors added to ground planes**

Duyar M., Akan V., Yazgan E., Bayrak M.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.49, no.7, pp.1653-1656, 2007 (SCI-Expanded)

**XXVII. New accurate analytical analyses of shielded planar transmission lines**

Duyar M., Akan V., Yazgan E., Bayrak M.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.48, no.6, pp.1079-1085, 2006 (SCI-Expanded)

**XXVIII. Analyses of elliptical coplanar coupled waveguides and coplanar coupled waveguides with finite ground width**

Duyar M., Akan V., Yazgan E., Bayrak M.

IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.54, no.4, pp.1388-1395, 2006 (SCI-Expanded)

**XXIX. Quasistatic TEM analyses of elliptical, cylindrical, and asymmetric shielded striplines: Multilayered case**

Akan V., Yazgan E.

INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.16, no.2, pp.181-191, 2006 (SCI-Expanded)

- XXX. **Quasi-static solutions of multilayer elliptical, cylindrical coplanar striplines and multilayer coplanar striplines with finite dielectric dimensions - Asymmetrical case**  
Akan V., Yazgan E.  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.53, no.12, pp.3681-3686, 2005 (SCI-Expanded)
- XXXI. **Three-dimensional equivalent focused feed for an offset paraboloidal reflector antenna**  
Yazgan E., Turgut-Sansal G.  
ELECTROMAGNETICS, vol.24, no.8, pp.597-605, 2004 (SCI-Expanded)
- XXXII. **Characteristics of a circular patch microstrip antenna on uniaxially anisotropic substrate**  
GÜREL Ç. S., Yazgan E.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.52, no.10, pp.2532-2537, 2004 (SCI-Expanded)
- XXXIII. **Quasistatic TEM characteristics of multilayer elliptical and cylindrical coplanar waveguides**  
Akan V., Yazgan E.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.42, no.4, pp.317-322, 2004 (SCI-Expanded)
- XXXIV. **A simple formulation for quasistatic solutions of elliptical, cylindrical and asymmetrical coplanar strip lines**  
Akan V., Yazgan E.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.41, no.1, pp.18-21, 2004 (SCI-Expanded)
- XXXV. **Limit and application range of the slope-diffraction method for wireless communications**  
Kara A., Bertoni H., Yazgan E.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.51, no.9, pp.2512-2514, 2003 (SCI-Expanded)
- XXXVI. **Roof shape modelling for multiple diffraction loss in cellular mobile communication systems**  
Kara A., Yazgan E.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.89, no.10, pp.753-758, 2002 (SCI-Expanded)
- XXXVII. **Qaasi-static analysis and determination of parameters of open and shielded three-layer microstrip lines**  
Zor A., Yazgan E.  
ELECTROMAGNETICS, vol.22, no.1, pp.1-13, 2002 (SCI-Expanded)
- XXXVIII. **Compensation of superstrate effects on the resonant behavior of the microstrip ring structure by using an air-cap control**  
GÜREL Ç. S., Yazgan E.  
IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY, vol.43, no.2, pp.219-223, 2001 (SCI-Expanded)
- XXXIX. **The improvement in the terrain model for a target close to an obstacle**  
AFACAN E., Yazgan E.  
ELECTROMAGNETICS, vol.21, no.4, pp.295-306, 2001 (SCI-Expanded)
- XL. **Simple determination of effective permittivity and resonant frequency of a microstrip ring antenna including air gap**  
GÜREL Ç. S., Yazgan E.  
AEU-Archiv fur Elektronik und Ubertragungstechnik, vol.54, no.4, pp.238-240, 2000 (SCI-Expanded)
- XLI. **Resonant frequency of an air gap tuned circular disc microstrip antenna**  
GÜREL Ç. S., Yazgan E.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.87, no.8, pp.973-979, 2000 (SCI-Expanded)
- XLII. **New determination of dynamic permittivity and resonant frequency of tunable circular disk microstrip structures**  
GÜREL Ç. S., Yazgan E.  
International Journal of RF and Microwave Computer-Aided Engineering, vol.10, no.2, pp.120-126, 2000 (SCI-Expanded)
- XLIII. **New computation of the resonant frequency of a tunable equilateral triangular microstrip patch**  
Gurel C., Yazgan E.  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.48, no.3, pp.334-338, 2000 (SCI-Expanded)
- XLIV. **Tunable resonance in a superstrate-loaded lossy circular disk microstrip structure**



- GÜREL Ç. S., Yazgan E.  
Canadian Journal of Physics, vol.78, no.7, pp.711-719, 2000 (SCI-Expanded)
- XLV. **Modified cavity model to determine resonant frequency of tunable microstrip ring antenna**  
GÜREL Ç. S., Yazgan E.  
ELECTROMAGNETICS, vol.19, no.5, pp.443-455, 1999 (SCI-Expanded)
- XLVI. **New method for the calculation of fock scattering functions**  
AFACAN E., Yazgan E.  
Microwave and Optical Technology Letters, vol.21, no.3, pp.223-226, 1999 (SCI-Expanded)
- XLVII. **Modified resonant frequency calculation for two-layered circular patch microstrip antenna**  
GÜREL Ç. S., Yazgan E.  
AEU-Archiv fur Elektronik und Übertragungstechnik, vol.53, no.3, pp.155-157, 1999 (SCI-Expanded)
- XLVIII. **Elliptic cylinder modeling of obstacles for low altitude radar systems**  
AFACAN E., Yazgan E.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.13, no.2, pp.237-258, 1999 (SCI-Expanded)
- XLIX. **Pattern optimization of a reflector antenna with planar-array feeds and cluster feeds**  
Saka B., Yazgan E.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.45, no.1, pp.93-97, 1997 (SCI-Expanded)
- L. **Beam steering antenna design for low altitude radar systems**  
Saka B., AFACAN E., Yazgan E.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.11, no.2, pp.215-224, 1997 (SCI-Expanded)
- LI. **The effect of loading Gregorian antennas on side-lobe levels**  
AFACAN E., Yazgan E.  
CANADIAN JOURNAL OF PHYSICS, vol.74, no.9-10, pp.685-691, 1996 (SCI-Expanded)
- LII. **A SIMPLE FORMULATION OF UTD FOR SOME REFLECTOR ANTENNAS**  
Yazgan E.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.66, no.2, pp.283-288, 1989 (SCI-Expanded)
- LIIL. **The Effect of Surface Loading on the Radiation Pattern of a Spherical Reflector**  
Yazgan E., Göksel H.  
IEEE Transactions on Electromagnetic Compatibility, vol.30, no.4, pp.561-563, 1988 (SCI-Expanded)
- LIV. **Comparison of UTD and UAT in Axially Symmetric Reflectors**  
Yazgan E., Şafak M.  
IEEE Transactions on Antennas and Propagation, vol.35, no.1, pp.113-116, 1987 (SCI-Expanded)
- LV. **The Radiation Pattern of a Surface Loaded Ellipsoidal Reflector**  
Yazgan E.  
IEEE Transactions on Antennas and Propagation, vol.35, no.3, pp.347-349, 1987 (SCI-Expanded)
- LVI. **Polarization Losses in Reflector Antennas**  
Şafak M., Yazgan E.  
IEEE Transactions on Antennas and Propagation, vol.33, no.8, pp.899-903, 1985 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Applied Computational Electromagnetics Society Journal (ACES), Vol.36(No :11):pp;1460-1467 (8 pages) Nov 2021**  
Dökmetaş B., Arıcan G. O., Akçam N., Yazgan E.  
2021
- II. **RESONANT FREQUENCY ANALYSIS OF ANNULAR RING MICROSTRIP PATCH ON UNIAXIAL MEDIUM VIA HANKEL TRANSFORM DOMAIN IMMITTANCE APPROACH**  
GÜREL Ç. S., Yazgan E.  
PROGRESS IN ELECTROMAGNETICS RESEARCH M, vol.11, pp.37-52, 2010 (ESCI)
- III. **DESIGNS AND ANALYSES OF SOME RF/MICROWAVE PASSIVE ELEMENTS ON CYLINDRICAL CPWS**

Akan V., Duyar M., Yazgan E., Bayrak M.

PROGRESS IN ELECTROMAGNETICS RESEARCH LETTERS, vol.8, pp.43-51, 2009 (ESCI)

**IV. Modelling of shadowing loss due to huge non-polygonal structures in urban radio propagation**

Kara A., Yazgan E.

Progress In Electromagnetics Research B, vol.6, pp.123-134, 2008 (Scopus)

**V. A new roof model on randomly placed buildings in mobile communication**

Altın N., Yazgan E.

Progress In Electromagnetics Research C, vol.3, pp.95-101, 2008 (Scopus)

## **Books & Book Chapters**

**I. CHAPTER TITLE: Antennas for Space Applications: A Review BOOK TITLE: Advanced Radio Frequency Antennas for Modern Communication and Medical Systems A Review Chapter, Intec Open Access Book pp 1-34, August 2020**

Yazgan E., AKAN V.

in: Advanced Radio Frequency Antennas for Modern Communication and Medical Systems, , Editor, IntechOpen, 2020

**II. Antennas for Space Applications:**

Yazgan E., AKAN V.

in: Antennas for Space Applications:, , Editor, 2020

**III. Antennas for Space Applications: A Review, V.Akan, E.Yazgan INTECHOPEN BOOK's Chpt.**

Yazgan E., Akan V.

in: Antennas for Space Applications: A Review, V.Akan, E.Yazgan INTECHOPEN BOOK's Chpt., , Editor, 2020

**IV. "Compact Multimode Antenna Arrays for High Spectral Efficiency MIMO-OFDM WLANs" Encyclopedia of Information Science and Technology, Chapter,Third Edition, 2014**

Yazgan E., Ertuğ Ö., Yavanoğlu A.

in: "Compact Multimode Antenna Arrays for High Spectral Efficiency MIMO-OFDM WLANs" Encyclopedia of Information Science and Technology, Chapter,Third Edition, 2014, , Editor, 2014

**V. Uygulamalı Elektromanyetiğin Temelleri – Nobel Yayınevi- 2013-518 sayfa**

Yazgan E., Turgut G.

Nobel Yayınevi, Ankara, 2013

**VI. Kitap Çeviri : E.Yazgan, G.Turgut. Uygulamalı Elektromanyetiğin Temelleri – Nobel Yayınevi- 2013-518 sayfa**

Yazgan E., Turgut G.

in: Kitap Çeviri : E.Yazgan, G.Turgut. Uygulamalı Elektromanyetiğin Temelleri – Nobel Yayınevi- 2013-518 sayfa, , Editor, 2010

**VII. , "Conformal Mapping Techniques", Encyclopedia of RF and Microwave Engineering, John Wiley (invited chapter), John Wiley,NY, USA, 2005. E.Yazgan, V.Akan**

Yazgan E., Akan V.

in: , "Conformal Mapping Techniques", Encyclopedia of RF and Microwave Engineering, John Wiley (invited chapter), John Wiley,NY, USA, 2005. E.Yazgan, V.Akan, , Editor, 2005

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

**I. Deep Learning-Based Beamforming Design in Antenna Arrays: An Overview**

Gezer F., Genç Y., Kormaz N. A., Akkoç A., Afacan E., Yazgan E.

IEEE Int. Conference on Multidisciplinary Research in Technology and, Sivas, Turkey, 22 - 23 September 2023, pp.1-6

**II. Yakalanma Olasılığı Düşük Radarlarda Varyasyonel Costas Arrays in Low Probability of Intercept**

**RADAR-Mesut Güdek, Yasin Genç, Nilay Aytaş Korkmaz Ahmet Akkoç, Erkan Afacan, Erdem Yazgan**  
**Dizilerinin Kullanılması -- Usage of Variational Costas Arrays in Low Probability of Intercept Radar**

Yazgan E.

Conference: IV. BASKENT INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY STUDIES., Ankara, Turkey, 8 - 09 August 2023, pp.1-5

- III. **Genetik Algoritma ile Genişbant Anten Tasarımı Wideband Array Design with Genetic Algorithm**  
Dikdere M. O., Genc Y., Korkmaz N. A., Akkoc A., AFACAN E., Yazgan E.  
8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Turkey, 13 - 15 September 2023, pp.347-351
- IV. **Higher Order Taylor and Golomb Costas Arrays Yüksek Mertebeden Taylor ve Golomb Costas Dizileri**  
Gudek M., Genc Y., Korkmaz N. A., Akkoc A., AFACAN E., Yazgan E.  
2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023
- V. **Bikonik Anten ve E-Alan Üreticinin RS103 Test Sonucuna Etkileri", "Effects of the Biconical Antenna and E-Field Generator on RS103 Test**  
Demirdöğen B., Aytaş N., Genç Y., Akkoç A., Afacan E., Yazgan E.  
III. International Science and Innovation Congress ( INSI 2022 ) , Ankara, Turkey, 9 - 12 June 2022, pp.105-110
- VI. **APPLICABILITY EVALUATION OF POST-QUANTUM ENCRYPTION ALGORITHMS KUANTUM SONRASI ŞİFRELEME ALGORİTMALARININ UYGULANABİLİRLİK DEĞERLENDİRİLMESİ**  
Durur B., Genç Y., Akkoç A., Aytaş N., Afacan E., Yazgan E.  
III. International Science and Innovation Congress, 9 - 12 June 2022, pp.51-55
- VII. **Digital Image Encryption Using Elliptic Curve Cryptography: A Review**  
Habek M., Genc Y., Aytas N., Akkoc A., AFACAN E., Yazgan E.  
4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2022, Ankara, Turkey, 9 - 11 June 2022
- VIII. **Elliptic Curve Cryptography for Security in Connected Vehicles Bağlantili Araçlarda Güvenlik için Eliptik Eğri Kriptografisi**  
Genc Y., Habek M., Aytas N., Akkoc A., AFACAN E., Yazgan E.  
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- IX. **A New Drone Design Proposal for Fire Detection and First Quick Response in Large Areas**  
Yazgan E., Hitit Y. A., Hot H., Yüksel Z. S.  
İLK BİLDİRİLER KONFERANSI EMO ANKARA, Ankara, Turkey, 7 - 11 July 2021
- X. **Investigation of Planar Frequency Diverse Array Antenna**  
Yazgan E., Akkoç A., Afacan E.
- XI. **Analyses of Printed Folded Thin Strip Antenna and Printed Folded Narrow Slot Antenna**  
Yazgan E., Akan V.  
EEMKON 2019 14-16 November 2019
- XII. **Investigation of Planar Frequency Diverse Array Antenna in Concentric Circular Geometry**  
Akkoc A., AFACAN E., Yazgan E.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.651-654
- XIII. **Ku-Band MMIC LNA Design for Space Applications**  
Arıcan G. O., AKÇAM N., Yazgan E.  
6th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Turkey, 16 - 17 April 2019, pp.274-278
- XIV. **28-36 GHz MMIC LNA Design for Satellite Applications**  
Arıcan G. O., Dokmetas B., AKÇAM N., Yazgan E.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.726-729

- XV. **A novel millimeter-wave U-shaped radiating slot antenna with DGS structures for 5G cellular application**  
Dokmetas B., Arican G. O., AKÇAM N., Yazgan E.  
11th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2019, pp.669-672
- XVI. **Analysis of the asymmetric dual reflector antenna systems by using equivalent feed and antenna concepts**  
Turgut G., Yazgan E.  
10th International Conference on Electrical and Electronics Engineering, ELECO 2017, Bursa, Turkey, 29 November - 02 December 2017, vol.2018-January, pp.1079-1081
- XVII. **Resonant circular patch microstrip antenna with air gap**  
GÜREL Ç. S., Yazgan E.  
1998 Symposium on Antenna Technology and Applied Electromagnetics, ANTEM 1998, Ottawa, Canada, 9 - 12 August 1998, pp.233-236
- XVIII. **Offset feed line inclined aperture coupled stacked microstrip antenna design Ofset besleme hatli egik açiklik kuplajli yigin mikro\+erit anten tasarimi**  
ÖZTÜRK F., Yazgan E.  
2016 National Conference on Electrical, Electronics and Biomedical Engineering, ELECO 2016, Bursa, Turkey, 1 - 03 December 2016, pp.562-566
- XIX. **Joint military space operations simulation: A survey**  
Cayirci E., Karapinar H., Ozcakil L., Yazgan E.  
7th International Defense and Homeland Security Simulation Workshop, DHSS 2017, Barcelona, Spain, 18 - 20 September 2017, pp.1-8
- XX. **Offset Feed Line Inclined Aperture Coupled Stacked Microstrip Antenna Design**  
ÖZTÜRK F., Yazgan E.  
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.562-566
- XXI. **Comparison of ferroelectric and varactor tunable filters controlled by DAC**  
Yigit Y., Yazgan E.  
15th IEEE Mediterranean Microwave Symposium, MMS 2015, Lecce, Italy, 30 November - 02 December 2015, vol.2015-January
- XXII. **Tracking of real airborne targets with multistatic passive radars in 3D**  
Manavoğlu B., Yazgan E.  
2014 15th International Radar Symposium, IRS 2014, Gdansk, Poland, 16 - 18 June 2014
- XXIII. **Aperture averaging of focused multi-Gaussian Beams**  
Kamacioğlu C., Baykal Y., Yazgan E.  
Progress in Electromagnetics Research Symposium, PIERS 2013 Stockholm, Stockholm, Sweden, 12 - 15 August 2013, pp.1623-1626
- XXIV. **RCS prediction using fast ray tracing in Plücker coordinates**  
Altin N., Yazgan E.  
2013 7th European Conference on Antennas and Propagation, EuCAP 2013, Gothenburg, Sweden, 8 - 12 April 2013, pp.284-288
- XXV. **Radar cross section analysis of a square plate modeled with triangular patch**  
Altin N., Yazgan E.  
Progress in Electromagnetics Research Symposium, PIERS 2012 Kuala Lumpur, Kuala-Lumpur, Malaysia, 27 - 30 March 2012, pp.798-801
- XXVI. **Slow light analysis in 8-fold symmetric quasicrystal waveguides Yavaş ışığın 8-kat simetrik kuazi kristal dalga kilavuzlarında analizi**  
Özbenli H. H., Yazgan E., Kurt H.  
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012

- XXVII. **High frequency back scattering from a real-scale aircraft using SBR and PTD-EEC method**  
Altin N., Yazgan E.  
Progress in Electromagnetics Research Symposium, PIERS 2011 Marrakesh, Marrakush, Morocco, 20 - 23 March 2011, pp.1465-1469
- XXVIII. **Analysis of the relation between printed strip monopole and dielectric coated thin cylindrical monopole**  
Akan V., Yazgan E.  
2010 10th Mediterranean Microwave Symposium, MMS 2010, Guzelyurt, Cyprus (Gkry), 25 - 27 August 2010, pp.77-80
- XXIX. **Rocket exhaust plume effects to communication links in telemetry band Roket egzoz gazinin telemetri bandinda haberleşmeye etkileri**  
Arslan C., Yazgan E.  
2010 7th National Conference on Electrical, Electronics and Computer Engineering, ELECO 2010, Bursa, Turkey, 2 - 05 December 2010, pp.463-468
- XXX. **Radar cross section of a cavity in a finite elliptic cylinder**  
Altin N., Yazgan E.  
Progress in Electromagnetics Research Symposium 2010, PIERS 2010 Xi'an, Xian, China, 22 - 26 March 2010, vol.1, pp.609-612
- XXXI. **Compact space-multimode diversity stacked circular microstrip antenna array for 802.11n MIMO-OFDM WLANs**  
Öcalan A., Savaşçihabeş A., Gorgeç I., ERTUĞ Ö., Yazgan E.  
Loughborough Antennas and Propagation Conference, LAPC 2009, Loughborough, England, 16 - 17 November 2009, pp.525-528
- XXXII. **Propagation of Optical Flat-topped Gaussian Beams in Satellite Links**  
Kamacioglu C., Arpali S. A., Baykal Y., Yazgan E.  
International Conference on Electromagnetics in Advanced Applications (ICEAA 2009), Torino, Italy, 14 - 18 September 2009, pp.505-506
- XXXIII. **The calculation of back scattering field of unmanned air vehicle**  
Altin N., Yazgan E.  
Progress in Electromagnetics Research Symposium 2009, PIERS 2009 Beijing, Beijing, China, 23 - 27 March 2009, vol.2, pp.1433-1436
- XXXIV. **Biomedical image fusion with selection operation in the laplacian pyramid domain Laplace Piramit Bölgesinde Seçim Tekniği ile Biyomedikal Görüntü Füzyonu**  
Aydin M., Yazgan E., Ariöz U., Cila A., Oğuz K. K.  
Proceedings of the IEEE 12th Signal Processing and Communications Applications Conference, SIU 2004, Kusadasi, Turkey, 28 - 30 April 2004, pp.106-109
- XXXV. **The effects of. uniaxially anisotropic superstrate shielding on the resonant characteristics of circular microstrip patch**  
GÜREL Ç. S., Yazgan E.  
IEEE International Symposium on Electromagnetic Compatibility (EMC), İstanbul, Turkey, 11 - 16 May 2003, pp.935-937
- XXXVI. **Determination of Green's functions for circular disk microstrip antenna having uniaxial substrate**  
GÜREL Ç. S., Yazgan E.  
2000 Symposium on Antenna Technology and Applied Electromagnetics, ANTEM 2000, Winnipeg, Canada, 30 July - 02 August 2000, pp.247-250
- XXXVII. **UTD-based propagation model for the path loss characteristics of cellular mobile communications system**  
Kara A., Yazgan E.  
1999 IEEE Antennas and Propagation Society International Symposium, APSURSI 1999, Florida, United States Of America, 11 - 16 July 1999, vol.1, pp.392-395
- XXXVIII. **Bandwidth widening in an annular ring microstrip antennas with superstrate**

Gurel C. S., Yazgan E.

Proceedings of the 1995 IEEE Antennas and Propagation Society International Symposium. Part 4 (of 4), Newport Beach, CA, USA, 18 - 23 June 1995, vol.1, pp.692-695

**XXXIX. Modeling obstacles as cascaded ellipses**

AFACAN E., Yazgan E.

Proceedings of the IEEE Antennas and Propagation International Symposium. Part 3 (of 3), Seattle, WA, USA, 19 - 24 June 1994, vol.3, pp.1878-1880

**XL. Irregular terrain modeling for the low altitude radar applications**

AFACAN E., SAKA TANATAR B., Yazgan E.

Proceedings of the 7th Mediterranean Electrotechnical Conference - MELECON. Part 1 (of 3), Antalya, Turkey, 12 - 14 April 1994, vol.2

**XLI. Synthesis of parabolic reflector antenna patterns using optimized array feed**

SAKA TANATAR B., Yazgan E.

Proceedings of the 3rd European Conference on Satellite Communications, Manchester, England, 2 - 04 November 1993, pp.50-54

**XLII. Thick film high power attenuator**

Saka B., Yazgan E.

Proceedings of the 6th Mediterranean Electrotechnical Conference - Melecon '91, Ljubljana, Slovenia, 22 - 24 May 1991, pp.121-124

**XLIII. RADIATION PATTERN OF A RIM LOADED ELLIPSOIDAL ANTENNA.**

Yazgan E.

U. R. S. I. International Symposium on Electromagnetic Theory., Budapest, Hungary, pp.696-698

**XLIV. HIGH-FREQUENCY ANALYSIS OF OFF-FOCUS-FED AXISYMMETRIC ANTENNAS.**

Yazgan E.

Proceedings of Melecon '85: Mediterranean Electrochemical Conference., Madrid, Spain, pp.207-210

**XLV. UNIFIED ANALYSIS OF RADIATION PATTERNS FOR DUAL-REFLECTOR ANTENNAS.**

Yazgan E., Safak M.

Proceedings of MELECON 83, Mediterranean Electrotechnical Conference., Athens, Greece, vol.1

**XLVI. GTD ANALYSIS OF OFFSET REFLECTOR ANTENNAS WITH OFFSET FEEDS.**

Yazgan E., Safak M.

Proceedings of the 7th Colloquium on Microwave Communication., Budapest, Hungary, vol.2

**XLVII. CALCULATION OF THE RADIATION PATTERNS OF AXIALLY SYMMETRIC REFLECTORS.**

Yazgan E., Safak M.

Conf Proc Eur Microwave Conf 10th, Warszawa, Poland, 8 - 12 September 1980, pp.78-83

## Supported Projects

Haktan M., Özkan K., Doğan H. E., Batı İ. S., Adanova V., Yazgan E., Project Supported by Higher Education Institutions, Autonomous Cargo Transporter, 2020 - 2021

Yazgan E., Project Supported by Higher Education Institutions, Expandable Band Pass Filter Design, 2015 - 2016

Yazgan E., Gürel Ç. S., Project Supported by Higher Education Institutions, "Electromagnetic Analysis of Microwave Integrated Circuits", Hacettepe University Research Institute HU-93.001.010.005, 1994 - 1995

Yazgan E., Afacan E., Saka B., TUBITAK Project, Low Altitude Target Detection due to Topological Geometry, 1992 - 1995

Yazgan E., Saka B., TUBITAK Project, Increasing the Performance of Reflector Antennas, 1992 - 1993

Yazgan E., Şafak M., TUBITAK Project, Reflektör Antenlerden Saçılma---Scattering from Reflector Antennas, 1980 - 1982

## Activities in Scientific Journals

J. Adv. Res. Appl. Sci. Eng. Tech.], Evaluation Committee Member, 2022 - Continues

American Journal of Electromagnetics and Applications(AJEA) ISSN Print: 2376-5968; ISSN Online: 2376-5984,  
Committee Member, 2022 - Continues  
Editorial Board Member of Journal of ACES, 2019 - Continues  
Editorial Board Member of Journal of Science of G.U., 2019 - Continues  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, 2014 - Continues  
GAZI UNIVERSITY JOURNAL OF SCIENCE, Evaluation Committee Member, 2021 - 2023  
The Applied Computational Electromagnetics Society Journal (ACES). , Evaluation Committee Member, 2019 - 2023

## **Memberships / Tasks in Scientific Organizations**

14th Int. Conference on Electrical and Electronics Eng., Member of Science Committee, 2023 - Continues, Turkey  
ASYU-23, Member of Science Committee, 2023 - Continues, Turkey  
URSI TÜRKİYE 2023 Yönetim Kurulu Üye Yedek, Executive Board Member, 2017 - Continues, Turkey  
INISTA 2023 (The 17th International Symposium On Innovations In Intelligent Systems And Applications), Member of  
Science Committee, 2023 - 2024, Tunisia  
2023 17th European Conference on Antennas and Propagation (EuCAP). , Member of Advisory Board, 2023 - 2024, Italy

## **Scientific Refereeing**

The Applied Computational Electromagnetics Society Journal (ACES)., SCI Journal, November 2023  
Current Electronics and Telecommunication, SCI Journal, November 2023  
International Journal of Electronics, SCI Journal, September 2023  
ACES, SCI Journal, July 2023  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, MAG, Turkey, July 2023  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, July 2023  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, TED University, Turkey, July 2023  
MICROELECTRONICS, SCI Journal, May 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TED University, Turkey,  
May 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TUBİTAK, Turkey, May  
2023  
IET SIGNAL PROCESSING, SCI Journal, March 2023  
Pamukkale University Journal of Engineering Sciences, National Scientific Refreed Journal, February 2023  
Progress in Electromagnetics Research , SCI Journal, February 2023  
Universities of Other Countries Supported Project, Yildiz Technical University, Turkey, February 2023  
PIER-Progress in Electromagnetic Research, SCI Journal, January 2023  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI  
DERGISI, National Scientific Refreed Journal, January 2023  
PROGRESS IN ELECTROMAGNETICS RESEARCH, SCI Journal, January 2023  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI  
DERGISI, Journal Indexed in ESCI, January 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TED University, Turkey,  
January 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TED University, Turkey,  
January 2023  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TED University, Turkey,  
December 2022  
ENTROPY, Journal Indexed in SCI-E, November 2022  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI

DERGİSİ, National Scientific Refreed Journal, November 2022

ELECTRONICS , Journal Indexed in SCI-E, October 2022

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ

DERGİSİ, National Scientific Refreed Journal, October 2022

SENSORS, Journal Indexed in SCI-E, September 2022

PROGRESS IN ELECTROMAGNETICS RESEARCH, Journal Indexed in SCI-E, August 2022

IET SIGNAL PROCESSING, SCI Journal, August 2022

OPTICAL ENGINEERING, SCI Journal, July 2022

PROGRESS IN ELECTROMAGNETICS RESEARCH, Journal Indexed in SCI-E, June 2022

TUBİTAK Project, 1511 - TUBİTAK Priority Fields Research Technology Development and Innovation PDP, TED University, Turkey, June 2022

TUBİTAK Project, 3501 - National Young Researcher Career Development Program, TED University, Turkey, June 2022

PROGRESS IN ELECTROMAGNETICS RESEARCH, Journal Indexed in SCI-E, May 2022

PROGRESS IN ELECTROMAGNETICS RESEARCH, Journal Indexed in SCI-E, April 2022

Industrial Thesis Project, RST, Turkey, April 2022

IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, SCI Journal, March 2022

IEEE SIGNAL PROCESSING LETTERS, Journal Indexed in SCI-E, February 2022

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, SCI Journal, February 2022

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ

DERGİSİ, National Scientific Refreed Journal, February 2022

Gazi Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, January 2022

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, January 2022

Progress in Electromagnetics Research (PIER), Journal Indexed in SCI-E, November 2021

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ

DERGİSİ, September 2021

IEEE MTT Microwave Theory and Techniques, September 2021

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ

DERGİSİ, August 2021

ACES Journal-The Applied Computational Electromagnetics Society Journal (ACES), August 2021

IEEE MTT Transactions on Microwave Theory and Techniques, August 2021

ASYU 2021 Conference Reviewer- 2 papers, August 2021

Progress in Electromagnetics Research (PIER) - Reviewer, Journal Indexed in SCI-E, June 2021

Progress in Electromagnetics Research (PIER), June 2021

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ

DERGİSİ, May 2021

URSI 2021 Conf Review 3 papers, May 2021

Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, April 2021

Progress in Electromagnetics Research (PIER), April 2021

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, April 2021

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, March 2021

Progress in Electromagnetics Research (PIER), January 2021

International Advanced Researches and Engineering Journal, November 2020

ACES\_Journal\_20201017 USA, October 2020

Proceedings of SPIE - The International Society for Optical Engineering, October 2020

IEEE ACCESS, September 2020

Pamukkale University Journal of Engineering Sciences (PAJES), July 2020

Progress in Electromagnetics Research - PIER Journals - 7 Articles, July 2020

Progress in Electromagnetics Research - PIER Journals, June 2020

ACES Journal -USA, May 2020

IET SIGNAL PROCESSING, May 2020

Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, April 2020



OPTICAL ENGINEERING The International Society for Optical Engineering, January 2020  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI,  
October 2019  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, July 2019  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, May 2019  
Progress in Electromagnetics Research (PIER), April 2019  
International Journal of Electronics, March 2019  
JOURNAL OF ELECTRONIC IMAGING, February 2019

## Scientific Consultations

TUBİTAK-ARDEB-UPAG, Project Consultancy, TED University, Turkey, 2020 - Continues  
TUBİTAK-TEYDEB, Project Consultancy, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, Turkey, 2019 - 2024  
Fulbright, Project Consultancy, TED University, Turkey, 2022 - 2023  
TÜBİTAK - EEEAG, Project Consultancy, TED University, Turkey, 2022 - 2023  
Fulbrigh, Project Consultancy, TED University, Turkey, 2022 - 2022  
Assessment of the WURI (World's Universities with Real Impacts) 2022 Ranking applications. (WURIIA060) Vertical Sewage Treatment Plant, Project Consultancy, TED University, Turkey, 2022 - 2022  
Assessment of the WURI (World's Universities with Real Impacts) 2022 Ranking applications. (WURIIA059)  
Vishwakarma University Energy and Sustainability Centre of Excellence, Project Consultancy, TED University, Turkey, 2022 - 2022  
Assessment of the WURI (World's Universities with Real Impacts) 2022 Ranking applications for seven projects WURIIA Codes 058-064 ; (WURIIA058) Design optimization of oil bath in C-arm type X-Ray Machine, Project Consultancy, TED University, Turkey, 2022 - 2022

## Tasks In Event Organizations

Yazgan E., ELECO 2022 - Chair for Electromagnetics and Microwave Techniques- Sesions 3, Scientific Congress, Turkey, Kasım 2022  
Yazgan E., ELECO 2022 Elektrik – Elektronik ve Biyomedikal Mühendisliği Konferansı, Scientific Congress, Turkey, Kasım 2022  
Yazgan E., ASYU 2022: Innovations in Intelligent Systems and Applications Conference , Reviews of 8 papers, Scientific Congress, Antalya, Turkey, Eylül 2022  
Yazgan E., IEEE INISTA 2022 conference Technical Prog. Committe Member , Scientific Congress, France, Ağustos 2022  
Yazgan E., EUCAP 2022 The European Conference on Antennas and Propagation -Reviewer for 5 papers, Scientific Congress, Spain, Nisan 2022  
YAZGAN E., ELECO 2021 - Chair for Electromagnetics Sesions 9 and 12, Kasım 2021  
YAZGAN E., 13th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING Bursa, Turkey, 25-27 November 2021, Kasım 2021  
YAZGAN E., ASYU 2021: Innovations in Intelligent Systems and Applications Conference, Elazığ, Turkey, Ekim 2021  
YAZGAN E., İBK 2021 Orginazation and Technical Program Committe Member, Eylül 2021  
YAZGAN E., URSI 2021 conference Technical Prog. Committe Member, Kocaeli, Turkey, Eylül 2021  
YAZGAN E., IEEE INISTA 2021 conference Technical Prog. Committe Member, Temmuz 2021  
YAZGAN E., İlk Bildiriler Konferansı 2021, Ankara, Turkey, Temmuz 2021  
YAZGAN E., EMO İBK 2021 Reviewer for 3 papers, Haziran 2021  
YAZGAN E., INISTA 2021 - Review for 2 papers, Haziran 2021  
YAZGAN E., EUCAP 2021 The European Conference on Antennas and Propagation; 2021, Düsseldorf, Germany, Mart 2021

YAZGAN E., TEYDEB' de görev alan değerlendiricilere yönelik "Hakem/İzleyici Bilgilendirme, Mart 2021  
YAZGAN E., EEMKON 2020 Organization committee member, Kasım 2020  
YAZGAN E., ELECO 2020, Kasım 2020  
YAZGAN E., ASYU 2020- (Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı ), Ekim 2020  
YAZGAN E., SIU-2020 28. IEEE SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI, Nisan 2020  
YAZGAN E., EUCAP 2020 The European Conference on Antennas and Propagation, Mart 2020  
Yazgan E., EEMKON 2019 Organization comitte member, Scientific Congress, Turkey, Kasım 2019  
Yazgan E., ASYU 2019-2023, Scientific Congress, Sivas, Turkey, Kasım 2019  
YAZGAN E., HAVELSAN- SANAYİ-ÜNİVERSİTE İş Birliği Toplantısı, Ekim 2019

## **Scientific Research / Working Group Memberships**

Member of the Jury of Enterance Exams MSc. Students iin Mechatronics Eng., 2020 - Continues  
Planning of EE Departmet Courses for Spring and Fall, 2020 - Continues  
Hacettepe University BAP-Project Report; Destek: Siox İnce Filmlerde Nd: YAG Darbeli Lazer ile Nanokristal Silikon Oluşumu No:012 D11 602 001-42, 2020 - Continues  
Preparing Enterance Exams For Research & Teaching Assistants, TED University, Türkiye, www.tedu.ee.edu.tr, 2015 - 2024  
Msc Thesis Monitoring For Onay Karaca, TED University, Türkiye, www.tedu.mece.edu.tr, 2021 - 2022  
Mechatronics Engineering Msc Thesis For A Student ( Onay Karaca), TED University, Türkiye, Mechatronics Eng., 2019 - 2022  
EE491- Project on Forest Fire Finding Drone Design, 2020 - 2021  
DIGILENT Analog Discovery 2 boards - Marketing Research, 2020 - 2020  
Planning of Offered Courses for Spring 2021 Semester, 2020 - 2020  
Planning of Offered Courses for Fall 2020 Semester, 2020 - 2020  
Planning of Offered Courses for Fall 2020 Semester, 2020 - 2020  
Preparing Enterance Exams for Assistants, 2020 - 2020  
Preparing Enterance Exams for Research & Teaching Assistants, 2020 - 2020

## **Congress and Symposium Activities**

14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Working Group, Bursa, Turkey, 2023  
14th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Working Group, Bursa, Turkey, 2023  
ASYU 2023 @ Sivas Innovations in Intelligent Systems and Applications Conference, Session Moderator, Sivas, Turkey, 2023  
INISTA-23, Working Group, Tunis, Tunisia, 2023  
URSI-2023--XI. URSI-TÜRKİYE 2023 BİLİMSEL KONGRESİ, Working Group, İstanbul, Turkey, 2023  
SIU 23-31. IEEE Conference On Signal Processing and Communications Applications, Working Group, İstanbul, Turkey, 2023  
ELECO 22, Session Moderator, Bursa, Turkey, 2022  
INISTA 2022-International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Working Group, Anglet, France, 2022  
SİU 2022 30. IEEE SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI 16-18 Mayıs 2022 Safranbolu / Türkiye, Working Group, Sakarya, Turkey, 2022  
The European Conference on Antennas and Propagation (EUCAP) 2022, Working Group, Madrid, Spain, 2022

## Scholarships

NATO- ASI, NATO, 2001 - 2001

British Council Research , British Council, 2000 - 2000

Fulbright Research Award in USA, Fulbright Program, 1993 - 1994

## Awards

Yazgan E., TUBITAK Academic Publication Award; TED University, Ankara, Turkey , Tübitak, November 2023

Yazgan E., TEDU publication award 2023 for two publications, Ted University, September 2023

Yazgan E., TEDU publication award 2022 for two publications, Ted University, September 2022

Yazgan E., TÜBİTAK Publication Award , Tübitak , July 2022

YAZGAN E., TUBITAK Academic Publication Award; TED University, Ankara, Turkey, ULAKBİM, November 2021

YAZGAN E., TEDU Academic Publication Award; TED University, Ankara, Turkey for "Dual mode filter with tunable cross Iris., September 2021

YAZGAN E., TEDU Academic Publication Award; TED University, Ankara, Turkey for "Ku-band GaAs mHEMT MMIC and RF front-end module for space applications", TEDU, February 2021

YAZGAN E., TEDU Academic Publication Award; TED University, Ankara, Turkey for "Dot-Shaped 3D Range-Angle Dependent Beamforming with Discular Frequency Diverse Array", August 2020

YAZGAN E., Publication Award of TUBITAK -UBYT, June 2020

YAZGAN E., TEDU Academic Publication Award; TED University, Ankara, Turkey, August 2019

YAZGAN E., TED Paper Publication Award, July 2019

YAZGAN E., OUTSTANDING PAPER AWARD, Electronic Design Innovation Conferenc 2018 USA, October 2018

YAZGAN E., 2018 EDICON Outstanding Paper Award for "Tuning Optimization Approaches for Digitally Controlled Tunable Filters", Electronic Design Innovation Conference and Exhibition Santa Clara LA USA, October 2018

YAZGAN E., Hacettepe University Development Foundation Science Award, Hacettepe Üniversitesi, February 1999

YAZGAN E., Scholarships for paper publication, January 1998

YAZGAN E., Hacettepe Üniversitesi Geliştirme Vakfı Fen Bilimleri Araştırma Birincilik Ödülü, January 1997

YAZGAN E., • International Armed Forces Electronics and Communication Association Honour Certificate, • International Armed Forces Electronics and Communication Association, February 1995

YAZGAN E., International Armed Forces Electronics and Communication Association Honour Certificate (1995), January 1995

YAZGAN E., • Fulbright Research Award in USA, • Fulbright Research Award, February 1993

YAZGAN E., • Turkish Standardisation Institute Award, • Turkish Standardisation Institute, May 1992

YAZGAN E., • British Council Research Scholarship, British Council, April 1992

YAZGAN E., • Science and Encouragement Award of Prof. Dr. Mustafa Parlar Education and Research Foundation, • Award of Prof. Dr. Mustafa Parlar Education and Research Foundation, February 1992

YAZGAN E., Türk Standartları Enstitüsü Hizmet Ödülü, January 1992

YAZGAN E., British Council Research Scholarship, 1992,1999, January 1992

YAZGAN E., Prof. Dr. Mustafa Parlar Eğitim ve Araştırma Vakfı Bilim ve Teşvik Ödülü, January 1992