

Prof. SELÇUK HELHEL

Personal Information

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Address: Akdeniz Üniversitesi, Mühendislik Fakültesi, Kampus, Antalya

International Researcher IDs

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Publons / Web Of Science ResearcherID: A-1045-2016

Yoksis Researcher ID: 128435

Biography

He was born and completed his pre-university education in Isparta. In 1984, he completed secondary school **as the top student among 500 students** (9.76/10.00: Isparta Merkez Ortaokulu), and he was a team leader at the National TUBITAK Mathematics Competitions. In 1987, he completed high school **as the top student among 800 students** (9.87/10.00: Isparta SAIK High School), and got the mansion in the National TUBITAK Chemistry competitions. In the same year in 1987, He was, **among 1/2 million students, over 99.8%** in both the First Stage of Turkey's University Exam and the Second Stage of Turkey's University Exam. He received his Bs.E.E. from Hacettepe University (1993 -one semester delayed), Ms. E.E. from Gebze Institute of Technology (1997), and Ph.D. in EE from Sakarya University (2005). During his Ph.D. studies, he was with National Centre for Plasma Science & Technology at Dublin City University (2005, Ireland). In 2006, he was with the University of New Mexico (USA) at High Power Electromagnetic Laboratory as a fellow researcher.

He started his carrier with Goltas Cement Factory as a control engineer developing PLC codes in the AEG Modicon S5 platform for the factory Line-2 modernization project. By January 1994, he joined to Space Technologies Department (to UEKAE in 1996) at TUBITAK Marmara Research Center as a researcher and spent 5 years of experience on radio telescope design, EMC platforms, and facilities, military and civil-based EMC Tests including MIL-STD 461-462, and some industrial projects between 1993 and 1998. He got a trainee in EMC measurement techniques and EMC perspectives in circuit design at the University of Missouri Rolla (USA, 1997). Between 1998 and 2002, he got industrial experience in GSM RF planning and optimization at TURKCELL, MOTOROLA, NEXTEL, AT&T, LUCENT Technologies, Saudi Telecom, AVEA, and ERICSSON as RF Planning and Optimization Expert. He was with MOTOROLA as a regional manager between 2000 and 2001. He founded a company named Antalya Neptune Telecommunication servicing in the field of Radio Frequency Planning and Optimization, and in the company, he managed international projects between 2001 and 2003. In 2003, he turned back to academic studies at S. Demirel University (Turkey) as a lecturer. He held the position of vice director at BAUM. He is currently a full professor at Akdeniz University since 2006. During the time period of 2010 and 2014, he held the position of vice managerial at TUBITAK National Observatory. He was a member of the Board of Directors of Antalya Technopark between 2008 and 2012. He is also holding a directorate position at the Industrial and Medical Application-Based Microwave Research Center (EMUMAM), since 2008. In 2023, he joined a new company named HABWAVE RF Systems as a co-founder. He has been holding the position of manager of business development in the company since then.

His research interests are;

EMC/EMI Measurements & EMI Suppression Techniques

Antenna Theory and Antenna Measurements

Microwave Imaging and Optical Polarimeters

Analog Communication System Design

Cellular Communication and RF planning and Optimization

Professional interests are;

Project management

University-industry relations

Grants and Projects in brief are;

Total R&D Project Grand is over 4,000,000 USD (Managed)

Total R&D Project Grand is over 10,000,000 USD (Participated and Managed)

The total Telecommunication project budget is over 20,000,000 USD (Participated and Managed)

Education Information

Post Doctorate, University of New Mexico, Engineering Faculty, Department Of Ece, Emc And High Power Microwave Laboratory, United States Of America 2006 - 2006

Post Doctorate, Dublin City University, School Of Physics, The National Centre For Plasma Science And Technology, Ireland 2005 - 2005

Doctorate, Sakarya University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği, Turkey 2003 - 2005

Postgraduate, Gebze Technical University, Faculty Of Engineering, Elektronik Mühendisliği, Turkey 1994 - 1997

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 1987 - 1993

Foreign Languages

German, A1 Beginner

English, C1 Advanced

Certificates, Courses and Trainings

Other, İletişim Teknikleri, TÜBİTAK, 2013

Quality Management, Toplam Kalite Yönetimi, TÜBİTAK, 2012

IT, CP07, Introduction to GPRS (UMTS Principles), MOTOROLA Türkiye, 2010

IT, RF Planning Criteria for Wireless System Design, Agilent Technologies, 2000

IT, SYS03, BSS Database Application, MOTOROLA Türkiye, 2000

IT, Motorola BTS overview, MOTOROLA Türkiye, 2000
IT, CP002 Introduction to Digital Cellular Systems, MOTOROLA, 2000
IT, BSS08, Motorola System, Data Base, MOTOROLA Türkiye, 2000
IT, Mapinfo and Mapinfo Basic, Mapinfo Turkey, 2000
IT, Radio Network Planning, ERICSSON Türkiye, 1998
IT, RBS Systems and Structure, ERICSSON Türkiye, 1998
Other, EMC Design Principles, University of Missouri ROLLA, 1997
Other, Millimetre-Wave Radio Astronomy Principles, Kharkov State University, 1996
Other, Güç Elektronik Uygulamaları, EMO Kocaeli Şubesi, 1992

Dissertations

Doctorate, Mikrodalga Girişimetre İle Plazma Tanısı ve Plazma Sterilizasyonu, Sakarya University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2005
Postgraduate, Bina İçi Koridorlarda 1GHz'de Doğrudan ve Dolaylı Görüş Alanı Propogasyon Modeli Üretilmesi, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Elektronik Mühendisliği, 1997

Research Areas

Microwave Circuits, Optics and Photonics, Electromagnetic, Wave Propagation and Remote Sensing, Electromagnetic Waves, Antennas and Propagation, Electromagnetic Metrology, Gases, Plasmas and Electrical Discharges Physics, Physics of Plasmas

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2017 - Continues
Professor, Antalya Bilim University, Faculty Of Engineering, Elektrik Elektronik Mühendisliği, 2019 - 2019
Associate Professor, Uluslararası Antalya Üniversitesi, Engineering Faculty, Department Of Electrical And Electronics Engineering, 2016 - 2017
Associate Professor, Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2012 - 2017
Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2006 - 2012
Other, University of New Mexico, Engineering Faculty, Electrical And Computer Engineering, 2006 - 2006
Lecturer, Suleyman Demirel University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, 2003 - 2006
Other, Dublin City University, School Of Physics, School Of Physics, 2004 - 2004

Academic and Administrative Experience

Akdeniz University, Elektrik Elektronik Mühendisliği, 2018 - Continues
Akdeniz University, Faculty of Engineering, Eem, 2017 - Continues
Akdeniz University, Emumam, 2008 - Continues
Akdeniz University, Elektrik Elektronik Mühendisliği Bölümü, 2014 - 2017
Akdeniz University, Elektrik Elektronik Mühendisliği Bölümü, Telekomünikasyon , 2006 - 2013
Akdeniz University, Strateji Geliştirme , 2013-2017 2. Stratejik Amaç Çalışma Grubu Üyeliği, 2012 - 2012
Akdeniz University, Antalya Teknokenti, 2008 - 2012
Akdeniz University, Faculty of Engineering, Elektrik Elektronik Mühendisliği Bölümü, 2006 - 2011

Akdeniz University, Faculty of Engineering, 2008 - 2008

Suleyman Demirel University, Sdü Baum, 2004 - 2005

Courses

Principles of High Frequency Circuit Design, Undergraduate, 2022 - 2023
Fundamental Postualtes in Electromagnetics, Doctorate, 2018 - 2019
Analog Communication, Undergraduate, 2018 - 2019, 2017 - 2018
Circuit Theory I, Undergraduate, 2018 - 2019
Advanced Engineering Electromagnetics, Postgraduate, 2018 - 2019
Microwave Techniques, Undergraduate, 2018 - 2019
Communication Theory, Undergraduate, 2017 - 2018, 2016 - 2017
Electromagnetic Theory I, Undergraduate, 2016 - 2017
İleri Elektromanyetik Alanlar, Postgraduate, 2016 - 2017, 2014 - 2015
Antenler ve Yayılma, Undergraduate, 2016 - 2017, 2015 - 2016
Sayısal Haberleşme, Undergraduate, 2016 - 2017
Radar Sistemleri, Postgraduate, 2016 - 2017, 2014 - 2015
Mikrodalga Teknikleri I, Undergraduate, 2014 - 2015
Haberleşme Kuramı Laboratuvarı, Undergraduate, 2015 - 2016
Mühendislik ve Proje Yönetimi, Undergraduate, 2014 - 2015
Haberleşme Kuramı I, Undergraduate, 2014 - 2015, 2011 - 2012
EMC Ölçme Teknikleri, Postgraduate, 2014 - 2015
Mikrodalga ve Antenler Ölçme Lab, Undergraduate, 2014 - 2015
Mikrodalga Sistem Mühendslği, Postgraduate, 2013 - 2014, 2012 - 2013
Antenler ve Yayılma, Undergraduate, 2014 - 2015
Radar Sistemleri, Postgraduate, 2013 - 2014
Mühendislik Yönetimi, Undergraduate, 2013 - 2014
Mobil Haberleşme Sistemleri, Undergraduate, 2012 - 2013, 2010 - 2011
İleri Elektromagnetik Alanlar, Postgraduate, 2013 - 2014
İleri Elektromanyetik Alanlar, Postgraduate, 2013 - 2014
Elektromagnetik Dalgaların Yayılımı, Postgraduate, 2012 - 2013
Mikrodalga Teknikleri - I, Undergraduate, 2013 - 2014, 2011 - 2012, 2010 - 2011
Haberleşme Kuramı I, Undergraduate, 2013 - 2014, 2012 - 2013
Mikrodalga Teknikleri - I, Undergraduate, 2012 - 2013
İleri Elektromagnetik Alanlar, Postgraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010
Haberleşme Kuramı II, Undergraduate, 2011 - 2012
Lineer Cebir ve Vektör Analizi, Undergraduate, 2011 - 2012, 2008 - 2009
COMPUTER NETWORKS, Undergraduate, 2010 - 2011
PLAZMA TEORİSİ, Postgraduate, 2009 - 2010
Mikrodalga Teknikleri, Undergraduate, 2006 - 2007
Mikrodalga , Undergraduate, 2006 - 2007

Advising Theses

Helhel S., Development of Electromagnetic Interference (EMI) suppression techniques without requiring design changes at the circuit level for Metallic Enclosures , Doctorate, A.Borkurt(Student), Continues
Helhel S., Development of a Material Characterisation Method Based on Phase Extraction from SDR-Based FMCW Signals for Microwave Imaging Systems, Doctorate, G.OKUYAN(Student), Continues
Helhel S., IN-COLUMN CORROSION DETECTION USING A MULTI-FREQUENCY MICROWAVE IMAGING SYSTEM,

Postgraduate, E.SAPMAZ(Student), Continues

Helhel S., Detection of waste, pollution and liquid level in fuel tanks using FMCW radars., Doctorate, M.Sayed(Student), Continues

Helhel S., Adaptation of machine learning for the improvement of quality of microwave imaging; Contribution of depolarization to the image contrast, Doctorate, E.AKGÜN(Student), Continues

Helhel S., Wi-See System Design for Behind-the-Wall Moving Object Detection Via 2.4 GHz Wi-Fi Units, Doctorate, H.CAN(Student), Continues

Helhel S., Estimation of Rust Level in Reinforcement Steels Using FMSD Radar, Postgraduate, G.IRMAK(Student), 2024

Helhel S., Determination of Electrical Characteristics of Commonly Used Wood Species for Wood and Forest Industry, Doctorate, S.Saeed(Student), 2024

Helhel S., Development of Microwave Based Preclinical Experimental Orthopedic Imaging System, Doctorate, E.MENGÜÇ(Student), 2023

Helhel S., DESIGN OF PLASMA ANTENNA ARRAY IN MATRIX FORM , Doctorate, A.KOCAKUŞAK(Student), 2023

Helhel S., Betonarme Yapılarda Korozyon Tespiti İçin Tahribatsız Muayene Sistem Tasarımı, Postgraduate, M.EREN(Student), 2023

Helhel S., Elektronik Soğutuculardan Kaynaklanan Elektromanyetik Emisyon Kontrolü İçin Meta Malzeme Tabanlı Kuşak Tasarımı, Postgraduate, Z.KOCAMAN(Student), 2021

Helhel S., Filter design using the substrate integrated waveguide (YGDK) technology on X band, Postgraduate, M.R.A. (Student), 2020

Helhel S., 50W Sınıfı Yaygın Kullanılan Elektronik Soğutucuların 30MHz-230MHz Aralığında Elektromanyetik Işıma Bakımından Sınıflandırılması, Postgraduate, A.Bozkurt(Student), 2019

HELHEL S., ALBAYRAK Y., Uzaktan kontrollü ARM tabanlı mikrodenetleyici deney seti tasarımı ve gerçekleştirilmesi, Postgraduate, R.GÜLCAN(Student), 2019

HELHEL S., EMC Yankı Odalarında Karıştırıcı Parametrelerinin Elektrik Alan Düzgünlüğüne Etkisinin İncelenmesi ve Modellenmesi, Doctorate, B.URUL(Student), 2019

HELHEL S., Tüm Gökyüzü Kamerasi Kullanarak Bulutluluk Analizi, Postgraduate, K.Ünal(Student), 2018

Helhel S., Endüstriyel Doğal Taşlara Ait S-Bandı Dielektrik Katsayısı Veri Tabanının Oluşturulması, Postgraduate, M.SÜNEL(Student), 2018

HELHEL S., Ormanlık Alanda Akustik Hedef Tespiti, Postgraduate, Y.Necdet(Student), 2018

HELHEL S., Meme Tümörü Tanısı İçin Miktrodalga Sistem tasarımı (Dicle Üniversitesi, Fen Bilimleri Enstitüsü, 20.11.2015 tarih, Toplantı No:30 ve Karar No:10 gereği 2. Danışman), Doctorate, A.RECAİ(Student), 2018

HELHEL S., CANLI DOKULARDA GLUKOZ SEVİYESİ İLE OPTİK POLARİZASYON BOZULMA İLİŞKİSİNİN MODELLENMESİ, Postgraduate, E.MENGÜÇ(Student), 2018

HELHEL S., BİTÜMLÜ SICAK KARIŞIM ÜSTYAPI TABAKA KALINLIKLARININ ZAMAN DOMENİNDE SONLU FARKLAR YÖNTEMİ İLE ELEKTROMANYETİK BENZETİMİ, Postgraduate, B.YALIN(Student), 2018

HELHEL S., Sığırılarda RFID pH bolus sistem tasarımı ve performans analizi (SDÜ FBE 30.11.2016 tarih, 817 sayılı toplantı ve 20 sayılı kararı), Doctorate, H.DOĞAN(Student), 2018

HELHEL S., Uydu Haberleşmesi İçin X-Ku Bandında Huni Dizi Anten Tasarımı (SDÜ FBE 07.12.2016 tarih, 818 sayılı toplantı ve 08 sayılı kararı), Doctorate, A.GENÇ(Student), 2017

HELHEL S., Kontrolsüz Gezginlerden Arındırılmış Bina İçi Konum Tespit Sistemi Tasarımı ve Modellenmesi, Postgraduate, A.KOCAKUŞAK(Student), 2017

HELHEL S., Bilgisayar İçi Donanım Yerleşiminin Elektromanyetik Emisyon Etkilerinin İncelenmesi (2. Danışman), Doctorate, İ.Bahadır(Student), 2016

HELHEL S., Asteroitlerin Polarimetrik Gözlemleri İçin TFOSC Uyumlu Optik Polarimetre Tasarımı, Postgraduate, G.KAHYA(Student), 2015

HELHEL S., Deve Tabanı ve Manolya Yapraklarının X-Bandı Dielektrik Sabitlerinin Ölçümü ve Modellenmesi, Postgraduate, Y.Emre(Student), 2014

HELHEL S., Yalıtkan Kütük İçine Gömülü Metallerin X-Bandı Radar Ölçümü İle Belirlenmesi, Postgraduate, O.KURNAZ(Student), 2012

HELHEL S., GSM900/GSM1800/CDMA Frekanslarında Radyo Dalgaların Ormanlık Alanda Işıma Davranışı, Postgraduate, M.BİTİRGAN(Student), 2011

HELHEL S., GSM900/GSM1800/CDMA Frekanslarında Radyo Dalgaların Bina İçinden Bina Dışına Işması, Postgraduate, S.ÖZTÜRK(Student), 2011

HELHEL S., Radyo Dalgaların Hastahane Ortamında Işıma Davranışları ve Medikal Cihazlarla Etkileşimi, Postgraduate, Z.Akın(Student), 2011

HELHEL S., GSM 900/GSM 1800/CDMA 2100 frekanslı radyo dalgalarının ormanlık alanda ışıma davranışının incelenmesi, Postgraduate, M.Bitirgan(Student), 2011

Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, Nisan 2018, .. April, 2018

Associate Professor Exam, Doçentlik Jürisi (UAK), .., January, 2018

Post Graduate, Ediz DELİHASANLAR EHM Ana Bilim Dalı), KARABÜK Üniversitesi Fen Bilimleri Enstitüsü , September, 2016

Doctorate, Doktora Tez Savunma Jüri Üyeliği, İzmir Yüksek Teknoloji Enstitüsü, FBE, July, 2015

Competence In Art, BAŞUZMANLIK TEZİ, TÜBİTAK Ulusal Gözlemevi, February, 2014

Post Graduate, Yüksek Lisans, Süleyman Demirel Üniversitesi, July, 2013

Doctorate, Doktora Yeterlilik, Akdeniz Üniversitesi Fen Bilimleri Enstitüsü, October, 2012

Appointment to Academic Staff-Assistant Professorship, yardımcı Doçent Ataması, S. Demirel Üniversitesi, September, 2012

Post Graduate, Yüksek Lisans Burak KARAKAŞ, Süleyman Demirel Üniversitesi, July, 2012

Post Graduate, Yüksek Lisans, Süleyman Demirel Üniversitesi, July, 2012

Post Graduate, Yüksek Lisans, Akdeniz Üniversitesi Fen Bilimleri Enstitüsü, June, 2012

Post Graduate, Yüksek Lisans, Akdeniz Üniversitesi Fen Bilimleri Enstitüsü, June, 2012

Post Graduate, Yüksek Lisans, Akdeniz Üniversitesi Fen Bilimleri Enstitüsü, June, 2012

Post Graduate, Yüksek Lisans, Akdeniz Üniversitesi Fen Bilimleri Enstitüsü, June, 2012

Appointment to Academic Staff-Assistant Professorship, Korkuteli Meslek Yüksek Okulu, Akdeniz Üniversitesi Korkuteli Meslek Yüksek Okulu, May, 2012

Competence In Art, UZMANLIK TEZİ, TÜBİTAK Ulusal Gözlemevi, January, 2012

Post Graduate, Yüksek Lisans Bilge TÜRKEL, Süleyman Demirel Üniversitesi, January, 2012

Administrative Staff Examination, Teleskop uzmanı Yetiştirme, TÜBİTAK, July, 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **EMI-shielding response of GO/Fe3O4/polypyrrole(PPy)/thermoplastic polyurethane (TPU) composites**
Kaftelen-Odabaşı H., Ruiz-Perez F., Odabaşı A., HELHEL S., López-Estrada S., Caballero-Briones F.
Engineering Science and Technology, an International Journal, vol.55, 2024 (SCI-Expanded)
- II. **SIW-DGS bandpass filter design for C band satellite communications**
Nasser M., Celik A. R., Helhel S.
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.48, no.2, 2023 (SCI-Expanded)
- III. **Marble Pre-selection Chart to Suppress EMF in S-Band and SAR Reduction Capabilities of Them at 2.45 GHz**
Kocakusak A., Helhel S.
IETE JOURNAL OF RESEARCH, vol.69, no.8, pp.5681-5690, 2023 (SCI-Expanded)
- IV. **Experimental investigation of electromagnetic interference behavior of PCB heatsinks according to feeding point in 1-10 GHz band PCB soğutucuların besleme noktasına göre elektromanyetik girişim davranışlarının 1-10 GHz bandında deneysel olarak incelenmesi**
Karaman A. B., Başyigit İ. B., Doğan H., Genç A., Kocakusak A., Çolak B., Helhel S.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.2, pp.733-742, 2023 (SCI-

Expanded)

- V. **A Review of the EMI Effect on Natural Convection Heatsinks**
Genc A., Dogan H., Basyigit I. B., HELHEL S.
IETE JOURNAL OF RESEARCH, vol.69, no.6, pp.3550-3560, 2023 (SCI-Expanded)
- VI. **Designing and Implementing Sliding Gain/Pattern Controller Belt for Heat-Sink Antennas Operating at C Band**
HELHEL S., Kocaman Z.
IEEE Transactions on Antennas and Propagation, vol.70, no.11, pp.10253-10260, 2022 (SCI-Expanded)
- VII. **Development of a new hybrid cloud cover detection method for all sky mapping**
Akdemir K. U., Dindar M., ŞENEL F. A., HELHEL S.
ASTRONOMY AND COMPUTING, vol.38, 2022 (SCI-Expanded)
- VIII. **Deep learning for both broadband prediction of the radiated emission from heatsinks and heatsink optimization**
Basyigit I. B., Genc A., Dogan H., ŞENEL F. A., HELHEL S.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.3, pp.706-714, 2021 (SCI-Expanded)
- IX. **Heatsink Preselection Chart to Minimize Radiated Emission in Broadband on the PCB**
Genc A., Dogan H., Basyigit I. B., HELHEL S.
IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY, vol.63, no.2, pp.419-426, 2021 (SCI-Expanded)
- X. **Heatsinks as quasi-antennas and frog forming: frequency and feeding point effect**
HELHEL S., KARAMAN A. B., KOCAKUŞAK A.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.35, no.16, pp.2153-2162, 2021 (SCI-Expanded)
- XI. **Parametric Study of the Radiated Emission From the Plate-Fin CPU Heatsink at 2-8 GHz**
Dogan H., Basyigit I. B., Genc A., HELHEL S.
IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY, vol.62, no.6, pp.2401-2410, 2020 (SCI-Expanded)
- XII. **Determining loss tangent values of dry granite for potential S-band applications**
HELHEL S., KOCAKUŞAK A., Sunel M.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.11, pp.3476-3484, 2020 (SCI-Expanded)
- XIII. **The effect of fin types of the heatsinks on radiated emission on the printed circuit board at S-C band**
Basyigit I. B., Genc A., Dogan H., HELHEL S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.10, pp.3099-3106, 2020 (SCI-Expanded)
- XIV. **A fast and novel method for determining working volume in the reverberation chamber: Position of Tx antenna affect**
Urul B., Tütüncü B., HELHEL S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.1, pp.244-250, 2020 (SCI-Expanded)
- XV. **An Experimental Performance Investigation of an Ultra-Wideband Directional Antenna in the Microwave Imaging of Breast Cancer Tumor**
ÇELİK A. R., Kurt M. B., HELHEL S.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.34, no.10, pp.1549-1560, 2019 (SCI-Expanded)
- XVI. **Signal level performance variation of radio frequency identification tags used in cow body**
Dogan H., Basyigit I. B., Yavuz M., HELHEL S.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.29, no.7, 2019 (SCI-Expanded)
- XVII. **The effect of aperture shape, angle of incidence and polarization on shielding effectiveness of metallic enclosures**
Basyigit I. B., Dogan H., HELHEL S.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.53, no.2, pp.115-127, 2019 (SCI-Expanded)
- XVIII. **A new error reduction technique for reflection coefficient measurements for use in quick laboratory tests**

- ÇOLAK B., HELHEL S.
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.106, no.2, pp.237-249, 2019 (SCI-Expanded)
- XIX. **Investigation of the performances of waveguide bend components fabricated with 3D printing and copper plating**
Genc A., Goksu T., HELHEL S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.802-809, 2019 (SCI-Expanded)
- XX. **Effect of orientation of RF sources maintained within the enclosures on electrical shielding effectiveness performance**
Basyigit I. B., Genc A., HELHEL S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.4, pp.3088-3097, 2019 (SCI-Expanded)
- XXI. **Fabrication of three-dimensional printed rectangular waveguide T-junction with in-phase and equal power division**
Genc A., Goksu T., Helhel S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.8, pp.2043-2048, 2018 (SCI-Expanded)
- XXII. **Investigation of the characteristics of low-cost and lightweight horn array antennas with novel monolithic waveguide feeding networks**
Genc A., Basyigit I. B., ÇOLAK B., HELHEL S.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.89, pp.15-23, 2018 (SCI-Expanded)
- XXIII. **EMI filter design based on the separated electromagnetic interference in switched mode power supplies**
Yalcin S., ÖZEN Ş., HELHEL S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.6, pp.3033-3043, 2018 (SCI-Expanded)
- XXIV. **Electrical Shielding Effectiveness of PC Box; Effect of Polarization Angle and Aperture Dimension**
BAŞYİĞİT İ. B., GENÇ A., URUL B., HELHEL S.
INTERNATIONAL JOURNAL OF COMMUNICATION, vol.12, pp.21-25, 2017 (SSCI)
- XXV. **Investigation of electromagnetic shielding and absorbing capabilities of cementitious composites with waste metallic chips**
Cakir M., KOÇKAL N. U., ÖZEN Ş., KOCAKUŞAK A., HELHEL S.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.51, no.1, pp.31-42, 2017 (SCI-Expanded)
- XXVI. **BURIED METAL DETECTION WITHIN THE WOODEN BLOCK BY X-BAND MEASUREMENTS**
HELHEL S., Kurnaz O.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.58, no.5, pp.1245-1253, 2016 (SCI-Expanded)
- XXVII. **Frequency dependent complex dielectric permittivity of rubber and magnolia leaves and leaf water content relation**
KOCAKUŞAK A., Colak B., HELHEL S.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.50, no.4, pp.294-307, 2016 (SCI-Expanded)
- XXVIII. **Double-wedged Wollaston-type polarimeter design and integration to RTT150-TFOSC; initial tests, calibration, and characteristics**
HELHEL S., Khamitov I., KAHYA G., BAYAR C., KAYNAR S., Gumerov R.
EXPERIMENTAL ASTRONOMY, vol.39, no.3, pp.595-604, 2015 (SCI-Expanded)
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PIER Journals, SCI Journal, October 2017
PIER Journals, SCI Journal, October 2017
PIER Journals, SCI Journal, September 2017
International Journal of Electronics , SCI Journal, September 2017
IEEE Transactions on Cognitive Communications and Networking, SCI Journal, August 2017
International Journal of Sensors and Sensor Networks, Other journals, May 2017
IEEE Antennas and Wireless Propagation Letters , SCI Journal, May 2017
IEEE Reviews in Biomedical Engineering, SCI Journal, April 2017
IEEE Antennas and Wireless Propagation Letters , SCI Journal, February 2017
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Journal, February 2017
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Journal, January 2017
Nature, SCI Journal, November 2016
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Journal, July 2016
IEEE Trans. Antennas & Propagation, SCI Journal, June 2016
IEEE Transactions on Geoscience and Remote Sensing, SCI Journal, June 2016
IEEE Transactions on Cognitive Communications and Networking, SCI Journal, May 2016
PIER JOURNALS, SCI Journal, May 2016
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES , SCI Journal, April 2016
IEEE Antennas and Wireless Propagation Letters, SCI Journal, November 2015
Wireless Communications and Mobile Computing, Other Indexed Journal, October 2015
IEEE Transactions on Geoscience and Remote Sensing, SCI Journal, October 2015
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, September 2015
IEEE Transactions on Geoscience and Remote Sensing, SCI Journal, August 2015
TUBITAK Project, August 2015
BILIM ADAMI DESTEKLEME PROGRAMI BİDEB, Other Journals, June 2015
BILIM ADAMI DESTEKLEME PROGRAMI BİDEB, Other Journals, May 2015
TUBITAK Project, May 2015
TUBITAK Project, May 2015
American Journal of Networks and Communications, SCI Journal, April 2015
Wireless Communications and Mobile Computing, SCI Journal, April 2015
THE APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL , SCI Journal, April 2015
International Journal of Electronics, SCI Journal, April 2015
KSII Transactions on Internet and Information Systems, SCI Journal, January 2015
IEEE Vehicular Technology Magazine, SCI Journal, December 2014
American Journal of Networks and Communications , Other Indexed Journal, December 2014
International Journal of Engineering and Applied Sciences (IJEAS) , National Scientific Refreed Journal, October 2014
Project Supported by Higher Education Institutions, October 2014
TUBITAK Project, September 2014
Bulletin of Electrical Engineering and Informatics, Other Indexed Journal, July 2014
American Journal of Networks and Communications, Other Indexed Journal, July 2014
TUBITAK Project, July 2014
Pamukkale Üniversitesi Mühendislik Bilimleri Üniversitesi, National Scientific Refreed Journal, April 2014
TUBITAK Project, February 2014
TUBITAK Project, February 2014
TUBITAK Project, February 2014
TUBITAK Project, February 2014
TUBITAK Project, February 2014
PIERS, Other journals, January 2014
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, January 2014
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, December 2013
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, October 2013

PIERS JEMWA, SCI Journal, October 2013
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, April 2013
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, March 2013
March 2013
TUBITAK Project, March 2013
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, January 2013
Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, October 2012
IEEE Antennas and Wireless Propagation Letters, SCI Journal, September 2012
Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, September 2012
Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, August 2012
IEEE Transactions on Plasma Sciences, SCI Journal, August 2012
PIERS JEMWA, SCI Journal, April 2012
Project Supported by Higher Education Institutions, April 2012
TELKOMNİKA, SCI Journal, November 2011
TUBITAK Project, June 2011
Journal of Medical Systems, Other Indexed Journal, March 2011
Journal of Medical Systems, SCI Journal, February 2011
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, February 2011
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, December 2010
PIER and JEMWA, Other Indexed Journal, November 2010
TUBITAK Project, September 2010
TUBITAK Project, April 2010
Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, December 2009
TUBITAK Project, August 2009
PIER and JEMWA, Other Indexed Journal, July 2009
TUBITAK Project, March 2009
TUBITAK Project, March 2009
TUBITAK Project, March 2009
TUBITAK Project, September 2008
TUBITAK Project, June 2008
Project Supported by Higher Education Institutions, January 2008

Scientific Consultations

TÜBİTAK ARDEP 2209 PROGRAMI, Project Consultancy, Akdeniz University, Faculty Of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2014 - 2014
BİLİM SANAYİ VE TEKNOLOJİ BAKANLIĞI, Scientific Consultancy, Akdeniz University, Faculty Of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2013 - 2014
KOSGEB (ARGE Proje Hakemi ve Uzun Süreli İzleyicilik), Scientific Consultancy, Akdeniz University, Faculty Of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2011 - 2013
TÜBİTAK TEYDEP, Project Consultancy, Akdeniz University, Faculty Of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2012 - 2012
TÜBİTAK TEYDEP, Project Consultancy, Akdeniz University, Faculty Of Engineering, Department of Electrical and Electronics Engineering, Turkey, 2011 - 2012

Scientific Research / Working Group Memberships

OPTİK TASARIM, TÜBİTAK ULUSAL GÖZLEMEVİ, Turkey, 2013 - 2014
TUY40 TELESKOP TASARIMI, TÜBİTAK ULUSAL GÖZLEMEVİ, Turkey, 2010 - 2014

Metrics

Publication: 268

Citation (WoS): 400

Citation (Scopus): 491

H-Index (WoS): 12

H-Index (Scopus): 13

Congress and Symposium Activities

10th International Symposium on Intelligent Manufacturing and Service Systems, Attendee, Sakarya, Turkey, 2019

PIERS Photonics & Electromagnetics Research Symposium, Attendee, Rome, Italy, 2019

IX.URSI-TÜRKİYE 2018 BİLİMSEL KONGRESİ ULUSAL GENEL KURUL TOPLANTISI, Attendee, Konya, Turkey, 2018

XXXth General Assembly of the International Astronomical Union, Attendee, Vienna, Austria, 2018

International Conference on Advanced Technologies, Computer Engineering and Science, Attendee, Karabük, Turkey, 2018

AMACS 2017, Attendee, Rome, Italy, 2017

International Conference on Engineering Technologies _ ICENTE17, Attendee, Konya, Turkey, 2017

ELECO 2017 10th International Conference on Electrical and Electronics Engineering, Attendee, Bursa, Turkey, 2017

38th Progress In Electromagnetics Research Symposium PIERS 2017 in St Petersburg, Attendee, Sankt-Peterburg, Russia, 2017

VIII. URSI-TÜRKİYE'2016 BİLİMSEL KONGRESİ ve ULUSAL GENEL KURUL TOPLANTISI, Attendee, Ankara, Turkey, 2016

ıceCOM 2016 22nd International Conference on Applied Electromagnetics and Communications,, Attendee, Dubrovnik, Croatia, 2016

3rd International Conference on Advanced Technology & Sciences (ICAT'16), Attendee, Konya, Turkey, 2016

9TH INTERNATIONAL KHARKIV SYMPOSIUM ON PHYSICS AND ENGINEERING OF MICROWAVES, MILLIMETER AND SUBMILLIMETER WAVES MSMW'2016, Attendee, Kharkiv, Ukraine, 2016

24th Signal Processing and Communication Application Conference (SIU), Attendee, Zonguldak, Turkey, 2016

36th PIERS Progress In Electromagnetics Research Symposium, Invited Speaker, Czech Republic, 2015

ECS 2015 Electronics and Communication Systems, Invited Speaker, Spain, 2015

The 5th IAGA/ICMA/SCOSTEP Workshop on Vertical Coupling in the Atmosphere - Ionosphere System, Attendee, Antalya, Turkey, 2014

PIERS 2014, Attendee, Guangzhou (Canton), Turkey, 2014

35th PIERS Progress In Electromagnetics Research Symposium, Session Moderator, China, 2014

Sinyal İşlemleri ve Uygulamaları Konferansı, Attendee, Trabzon, Turkey, 2014

Elektronikte 4T (Teori, Tasarım, Test, Tedarik) Semineri, Attendee, Ankara, Turkey, 2014

International Conference on Electromagnetics in Advanced Applications, Attendee, TORİNO, Italy, 2013

IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communication, Attendee, TORİNO, Italy, 2013

Progress In Electromagnetics Research Symposium 2013, Attendee, STOCKHOLM, Sweden, 2013

ELECO, Attendee, BURSA, Turkey, 2012

Progress In Electromagnetics Research Symposium 2012, Attendee, MOSKOVA, Russia, 2012

7th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING, Attendee, bursa, Turkey, 2011

URSI GASS, Attendee, İSTANBUL, Turkey, 2011

ELECO, Attendee, BURSA, Turkey, 2010

URSI 2010, Attendee, ANTALYA, Turkey, 2010

BIYOMUT 2010, Attendee, ANTALYA, Turkey, 2010

4th International Conference on Electrical and Electronics Engineering, Attendee, BURSA, Turkey, 2005

International Conference on Phenomena in Ionized Gases, Attendee, Eindhoven, Netherlands, 2005

2004 AIChE Annual Meeting, Attendee, AUSTIN, United States Of America, 2004

Annual Gaseous Electronics Conference, Attendee, DUBLIN, Ireland, 2004

IJCI Proceedings of International Conference on Signal Processing, Attendee, ÇANAKKALE, Turkey, 2003
Elektrik Mühendisleri Odası 7.Ulusal Kongresi, Attendee, BURSA, Turkey, 1997
Electronics, Circuits and Systems ICECS'97, Attendee, KAHİRE, Egypt, 1997
Elektrik Mühendisleri Odası 6.Ulusal Kongresi, Attendee, BURSA, Turkey, 1995

Scholarships

Post Doctorate Fellow, University, 2006 - Continues
FELLOW, European Commission, 2004 - Continues
Student Stipend, University, 2003 - Continues

Awards

HELHEL S., TURKSAT 2. ULUSAL MODEL UYDU YARIŞMASI BİRİNCİLİK ÖDÜLÜ, TURKSAT, September 2017
HELHEL S., Google Akademik Ülke Sıralaması, Akdeniz Üniversitesi, January 2016
HELHEL S., MEZUNİYET 1.Sİ (9.65/10.00), ISPARTA LİSESİ, June 1987
HELHEL S., LİSELER ARASI KİMYA SEÇMELERİ (MANSİYON ÖDÜLÜ), TÜBİTAK, June 1986

Visual Activities

HELHEL S., TV Show, 2009 - 2009
HELHEL S., TV Show, 2008 - 2008