

Prof. ALP ORAL SALMAN

Personal Information

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Address: Kocaeli Üniversitesi - Umutepe Kampüsü- Mühendislik Fakültesi B

Girişi - Elektronik ve Haberleşme Mühendisliği Bölümü - İzmir / Kocaeli

International Researcher IDs

ScholarID: zNyTKtAAAAAJ

ORCID: 0000-0002-1708-6803

ScopusID: 55883699000

Yoksis Researcher ID: 188031



Biography

He was born in November 1969 in Ankara. He attended Ankara Namık Kemal Primary and Secondary School, and then he graduated from the Industrial Electronics Department at Balgat Technical High School. He graduated from Physics Engineering Department at Hacettepe University in 1993 with the second-best degree and then started to study for his graduate degree in the same department in 1996. His graduate thesis was supported by TÜBİTAK 1001 project with the number TBAG-1378. After working as a Research Assistant here between 1993 and 1999, he completed his short period of military service in Izmir. Between 1999 and 2012, he worked as a Researcher and Senior Researcher at the Materials Institute and Information Technologies Institute at TÜBİTAK Marmara Research Center and BİLGEM, respectively. Here, he took part in many R&D projects as a Researcher and Assistant Project Leader. Among these projects, Subsurface Detection System: Microwave (Imaging) Tomography Sensor, Earthquake Radar, Microwave Absorber Materials, Security Fence Radar, Sahara and Cave Tomography Device (SAMATO), Development and Testing of Radar Absorbing Materials, Camouflage Textiles Project, Surface Wave High-Frequency (HF) Radar Concept Demonstration Project, Subsurface Detection System: GPR and Metal Detector (Dual Sensor) projects. Between 2002 and 2003, for a year, he was a Visiting Scientist at the ElectroScience Laboratory within the Department of Electrical and Computer Engineering at Ohio State University, USA, and he conducted research and investigations on subsurface sensing, antenna parameters, and RCA measurements. He completed his doctorate in Kocaeli University (KOU) Electronics and Communication Engineering Department in 2006. This thesis was supported by an international (Israel Magal Inc. and Türkiye TUBITAK MRC) project named "Security Fence Radar". He received his Associate Professorship in Electrical and Electronics Engineering (EEE) area from UAK in 2011 and was appointed as a lecturer in the same department (ECE) at KOU in 2012. He still works as a Professor (obtained 2020) and the Deputy Head of the Department in the same department. In 2014, he established a 3 m Anechoic Chamber as part of a project (Installation of Microwave and Millimeter-Wave Anechoic Chamber - BAP Project), using also local facilities, in which measurements such as antenna parameters, RCS, and SAR can be made in the 900 MHz - 20 GHz range (expandable up to 40 GHz). This anechoic chamber is the first and only anechoic chamber established in a university for this purpose and in this frequency range in the Anatolian side of Istanbul and the Eastern Marmara Provinces (Kocaeli, Sakarya, Yalova, Düzce, and Bolu). In 2015, he established the MILTECH (Millimeter Wave, Electromagnetic and Security Technologies) Laboratory. MILTECH's research areas include microwave and millimeter-wave antenna design, electromagnetic characterization of radar absorbing materials (RAM), reflectivity and shielding efficiency measurements, RF and microwave radiation safety and ELF/RFR electromagnetic field measurements, passive and active millimeter-wave / microwave circuit design, passive millimeter-wave imaging, magnetic field probe design. Prof. Dr. A. Oral Salman was a guest lecturer in the field of electromagnetics and microwaves at the (National Defense University) Naval Academy, Gedik University, and Istanbul Şehir Universities in the Electrical and Electronics Engineering departments at graduate and undergraduate levels. He took part in 14 national and international projects so far, authoring 20 articles, 27 conference papers, 47 publications in total, 1 international book chapter author (Subsurface Sensing), 1 book translation editor (Advanced Engineering Electromagnetics), all from Wiley, and a chapter translator (Antenna Engineering) in 1 book. He worked as a referee, editor, and expert in some cases in many projects and publications. His research interests are electromagnetic and millimeter waves and microwave, antenna design, electromagnetic properties of radar absorbing materials, millimeter-wave passive sensing, subsurface sensing, optical photonics, wave propagation, electromagnetic wave-environment interaction, magnetic field probe design, optical and atomic properties of materials, quantum optics and photonics. He is currently working as a researcher for electromagnetic shielding measurements in Atatürk University and KOÜ joint project "GNP Coated Chain Structured MXene Ti3C2Tx Nanostructure and a Modified Original Sandwich Composite Armor Modified with

NonNewtonian Fluid". Administratively, he served as Laboratory Supervisor at TÜBİTAK MAM, Department Deputy Head, Member of the Academic Board of the Department, and Responsible for MÜDEK Measurement and Evaluation at KOÜ. The awards he received, respectively, were the department second-best degree in 1993, the TÜBİTAK MAM Achievement Awards in 2000 and 2005, the Young Scientist Best Paper Award in 2001, the TÜBİTAK MAM BTE Certificate of Appreciation in 2009, and the TÜBİTAK MAM Incentive Award in 2009.

Education Information

2001 - 2006	Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Electronics and Communication Engineering (Dr), Turkey
1993 - 1996	Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği A.B.D., Turkey
1987 - 1993	Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

2010	İz Azaltma Teknikleri - İleri Seviye, Vocational Course, Milli Savunma Bakanlığı ARGE Dairesi - SATEM
2010	İz Azaltma Teknikleri - Temel Seviye, Vocational Course, Milli Savunma Bakanlığı ARGE Dairesi - SATEM
2007	ARGE Mühendisliği, R&D Management, TÜBİTAK TÜSSİDE
2000	Patent Mevzuatı ve Patent Başvuruları ile Fikri Mülkiyet Hakları, Industrial Rights, Intellectual Property Rights, Patent, Licensing, TÜBİTAK Marmara Araştırma Merkezi
1999	Proje Yönetimi, Project Management, Koç - İDEA

Dissertations

2006	Aktif ve pasif olarak uyarılmış periyodik yapılardan ısımanın incelenmesi ve uygulamaları, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği (Dr), Doctorate
1996	Zayıf alan rezonans spektrometresinin güncelleştirilmesi ve bazı serbest kökçe çözeltilerinin bu spektrometre ile incelenmesi, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Postgraduate

Research Areas

Electrical and Electronics Engineering, Microwave Circuits, Optics and Photonics, Electromagnetic, Electromagnetic in Biology and Medicine, Wave Propagation and Remote Sensing, Electromagnetic Environment and Interaction, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits, Optical Properties, Electrical and Magnetic Properties, Material Characterization, Atomic and Molecular Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

2020 - Continues	Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği
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2012 - 2020	Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği
2017 - 2018	Associate Professor, Istanbul Sehir University, Faculty Of Engineering And Natural Sciences, Department Of Electrical And Electronics Engineering
2016 - 2018	Associate Professor, Istanbul Gedik University, Faculty Of Engineering, Department Of Electrical And Electronic Engineering
1999 - 2012	Researcher, TÜBİTAK Marmara Araştırma Merkezi / BİLGEM / UEKAE, Malzeme Enstitüsü/ Bilişim Teknolojileri Enstitüsü
2011 - 2011	Associate Professor
2002 - 2003	Researcher, Ohio State University, Engineering Faculty, Electrical and Computer Engineering
1993 - 1999	Research Assistant, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü

Academic and Administrative Experience

2019 - 2023	Anabilim Dalı Akademik Kurul Üyesi, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği
2019 - 2023	Deputy Head of Department, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği
2013 - 2015	MÜDEK Ölçme Değerlendirme Sorumlusu, Kocaeli University, Mühendislik Fakültesi, Elektronik ve Haberleşme Mühendisliği

Courses

2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017	Mühendislik Tasarımı - 2, Undergraduate
2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017	Mühendislik Tasarımı - 2, Undergraduate
2022 - 2023, 2017 - 2018, 2016 - 2017, 2013 - 2014	RF ve Mikrodalga Ölçüm Teknikleri, Undergraduate
2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019	Introduction to Engineering Applications, Undergraduate
2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019	Introduction to Engineering Applications, Undergraduate
2022 - 2023, 2018 - 2019, 2015 - 2016, 2014 - 2015, 2013 - 2014	Yüksek Frekans Teknikleri - 2, Doctorate

2022 - 2023, 2017 -
2018, 2016 - 2017,
2013 - 2014 RF ve Mikrodalga Ölçüm Teknikleri, Undergraduate

2023 - 2024, 2022 -
2023, 2020 - 2021,
2019 - 2020, 2018 -
2019, 2017 - 2018,
2016 - 2017, 2015 -
2016, 2014 - 2015,
2013 - 2014, 2012 -
2013 Bitirme Çalışması, Undergraduate

2023 - 2024, 2022 -
2023, 2019 - 2020,
2018 - 2019, 2015 -
2016, 2013 - 2014,
2012 - 2013 Yüksek Frekans Teknikleri - 1, Doctorate

2023 - 2024, 2022 -
2023, 2020 - 2021,
2019 - 2020, 2018 -
2019, 2017 - 2018,
2016 - 2017 Mühendislik Tasarımı - 1, Undergraduate

2023 - 2024, 2022 -
2023, 2021 - 2022,
2020 - 2021, 2019 -
2020, 2018 - 2019,
2017 - 2018, 2016 -
2017 Mühendislik Tasarımı - 3, Undergraduate

2023 - 2024, 2022 -
2023, 2021 - 2022,
2020 - 2021, 2019 -
2020, 2018 - 2019,
2017 - 2018, 2016 -
2017 Mühendislik Tasarımı - 3, Undergraduate

2023 - 2024, 2022 -
2023, 2021 - 2022,
2020 - 2021, 2019 -
2020, 2018 - 2019,
2017 - 2018, 2016 -
2017 Bitirme Çalışması, Undergraduate

2022 - 2023, 2020 -
2021, 2019 - 2020,
2018 - 2019, 2017 -
2018 Introduction to Electronic and Communication Engineering, Undergraduate

2022 - 2023, 2021 -
2022, 2020 - 2021,
2019 - 2020, 2018 -
2019, 2017 - 2018 Introduction to Electronic and Communication Engineering, Undergraduate

2019 - 2020, 2014 -
2015 Elektromanyetik Alan Teorisi, Undergraduate

2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017	Mühendislik Tasarımı - 1 , Undergraduate
2020 - 2021, 2019 - 2020, 2014 - 2015	Elektromanyetik Dalga Teorisi, Undergraduate
2018 - 2019, 2017 - 2018, 2014 - 2015	Elektromanyetik Uyumluluk, Undergraduate
2018 - 2019, 2017 - 2018, 2014 - 2015	Elektromanyetik Uyumluluk, Undergraduate
2019 - 2020, 2018 - 2019	Technical English, Undergraduate
2019 - 2020, 2018 - 2019	Technical English, Undergraduate
2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014	Radar Absorbing Materials: Theory, Desing and Characterization, Undergraduate
2017 - 2018	İleri Elektromanyetik Teori, Doctorate
2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014	Radar Absorbing Materials: Theory, Desing and Characterization, Undergraduate
2015 - 2016, 2014 - 2015	Elektromanyetik Dalga Yayılımının Temelleri, Undergraduate
2015 - 2016, 2014 - 2015	Elektromanyetik Dalga Yayılımının Temelleri, Undergraduate
2015 - 2016, 2014 - 2015, 2013 - 2014	Radio Frequency (RF) and Microwave Radiation Safety, Undergraduate
2015 - 2016, 2014 - 2015, 2013 - 2014	Electrical and Electronic Properties of Materials, Undergraduate
2014 - 2015	Mikrodalga Mühendisliği, Undergraduate
2015 - 2016, 2014 - 2015, 2013 - 2014	Electrical and Electronic Properties of Materials, Undergraduate
2015 - 2016, 2014 - 2015, 2013 - 2014	Radio Frequency (RF) and Microwave Radiation Safety, Undergraduate
2014 - 2015, 2013 - 2014, 2012 - 2013	Mikrodalga Sistemleri, Undergraduate
2013 - 2014	Hesaplamalı Elektromanyetik, Undergraduate
2013 - 2014	Hesaplamalı Elektromanyetik, Undergraduate
2014 - 2015, 2013 - 2014, 2012 - 2013	Mikrodalga Sistemleri, Undergraduate
2012 - 2013	Mikrodalga ve Anten Laboratuvarı, Undergraduate
2012 - 2013	Mikrodalga ve Anten Laboratuvarı, Undergraduate
2012 - 2013	Anten Teorisi, Doctorate

Advising Theses

2024	Salman A. O., Postgraduate, A.Kapıcı(Student), LTE HABERLEŞMESİ İÇİN BANT GENİŞLİĞİ ARTIRILMIŞ S-BANT DAİRESEL KUTUPLU DÜZLEMSEL DİZİ ANTEN ile AKTİF YÜKSELTECİNİN TASARIMI ve GERÇEKLEŞTİRİLMESİ
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2024	Salman A. O., Postgraduate, A.Özer(Student), Bütün ve Delikli Metal Yapıların Kalkanlama Verimliliklerinin ve Halka ve Sinüzoidal Şekli Frekans Seçici Yüzeylerin İncelenmesi
2024	Salman A. O., Postgraduate, C.AS(Student), Mikrodalga Linkleri İçin Eksenel Yer Değiştirilmiş Elips Yansıtıcı Anten Tasarımı ve Gerçekleştirilmesi
2023	Salman A. O., Postgraduate, F.ALPER(Student), Bazı Mikrodalga Manyetik Malzemelerin Karmaşık Manyetik Geçirgenliklerinin R-Bant Dikdörtgen Kesitli Rezonatör İle İncelenmesi
2022	Salman A. O., Postgraduate, A.YÜĞRÜK(Student), Otomatik RF Güç Ölçümü ve Monte Carlo Benzetim Metodunun Ölçüm Belirsizliğine Uyarlanması
2018	Salman A. O., Postgraduate, M.DURMUŞ(Student), R Bant Dikdörtgen Boşluk Rezonatörü için Uygun Uyarım Açıklık Yarıçapının Bulunması
2018	Salman A. O., Postgraduate, T.ŞEYDA(Student), Bazı Mikrodalga Dielektrik Malzemelerin Dielektrik Geçirgenliklerinin R-bant Dalga Kılavuzu Rezonatörü ile İncelenmesi
2018	Salman A. O., Doctorate, M.DUMAN(Student), Pasif Milimetre Dalga Görüntüleme Sistemi Uygulamaları

Jury Memberships

January 2021	Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi
January 2021	Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi
January 2021	Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi
January 2021	Associate Professor Exam, Associate Professor Exam, Kocaeli Üniversitesi
November 2020	Associate Professor Exam, Associate Professor Exam, Kocaeli Üniversitesi
November 2020	Associate Professor Exam, Associate Professor Exam, Kocaeli University
November 2020	Associate Professor Exam, Associate Professor Exam, Kocaeli University
September 2014	Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi
July 2014	PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Kocaeli Üniversitesi
January 2014	Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi
June 2013	Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi

Research Infrastructure Information

April 2015	Salman A. O., Duman M., Milimetre Dalga, Elektromanyetik ve Güvenlik Teknolojileri Laboratuvarı
January 2015	Salman A. O., Duman M., KOU - Electronics and Communication Engineering Anechoic Chamber Establishment

Education Infrastructure Information

April 2013	Salman A. O., Kocakaya A., Şaşmaz O. M., Mikrodalga ve Anten Laboratuvarının yeniden faaliyete alınması çalışması
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Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Electromagnetic Interference Shielding Performances of Carbon-Fiber-Reinforced PA11/PLA Composites in the X-Band Frequency Range**
Üçpınar B., Salman A. O., Aytaç A.
ACS OMEGA, vol.8, pp.22762-22773, 2023 (SCI-Expanded)
- II. **High-resolution 96-GHz (3 mm) passive millimeter-wave Imaging system and the effect of scanning resolution on images**
Salman A. O., Duman M.
JOURNAL OF APPLIED REMOTE SENSING, vol.16, no.4, pp.1-15, 2022 (SCI-Expanded)
- III. **Obtaining the Sky-Temperature Dependence on Voltage Value by the Passive Millimeter Wave Imaging System**
Duman M., Salman A. O.
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.346-348, 2018 (SCI-Expanded)
- IV. **A linearly slotted waveguide antenna and comparison of it with a sinusoidal one**
Salman A. O.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.21, no.5, pp.1455-1464, 2013 (SCI-Expanded)
- V. **Millimeter-wave antenna of a travelling-wave long sinusoidal slot in the broad face of a rectangular waveguide**
Salman A. O.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.66, no.8, pp.659-667, 2012 (SCI-Expanded)
- VI. **Wideband Antenna With Conductive Textile Radiators for a Dual-Sensor Subsurface Detection System**
Salman A. O., Bıcak E., Sezgin M.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.59, no.10, pp.3746-3755, 2011 (SCI-Expanded)
- VII. **ON THE ANTENNA EFFICIENCIES FOR THE DIELECTRIC LEAKY-WAVE ANTENNAS WITH A SINUSOIDAL METALLIC DIFFRACTION GRATING COUPLED FROM THE BROAD AND THE NARROW FACE OF THE DIELECTRIC**
Salman A. O.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.53, no.9, pp.2030-2034, 2011 (SCI-Expanded)
- VIII. **Millimeter-Wave Antenna of a Travelling-Wave Long Sinusoidal Slot in the Narrow Face of a Rectangular Waveguide**
Salman A. O.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.31, no.12, pp.1438-1451, 2010 (SCI-Expanded)
- IX. **The Millimeter Wave Radiation of a Dielectric Leaky-Wave Antenna Coupled with a Diffraction Grating for the Broadside Radiation: Narrow-Face Interaction**
Salman A. O.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.31, no.9, pp.1032-1047, 2010 (SCI-Expanded)
- X. **The Millimeter Wave Radiation of a Dielectric Leaky-Wave Antenna Coupled with a Diffraction Grating: Broad-Face Interaction**
Salman A. O.
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.31, no.2, pp.196-213, 2010 (SCI-Expanded)
- XI. **PHASE VELOCITY MEASUREMENT USING A SINUSOIDAL WIRE RESONATOR**
Salman A. O.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.52, no.1, pp.103-107, 2010 (SCI-Expanded)
- XII. **The radiation properties of a novel wire antenna for the security fence radar**
Salman A. O., Dibekci D., Gavrilov S. P., Vertiy A. A.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.56, no.9, pp.2852-2864, 2008 (SCI-Expanded)
- XIII. **The millimeter wave radiation of a traveling wave sinusoidal wire antenna**
Salman A. O., Dibekci D., Gavrilov S., Vertiy A. A.

- INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, vol.29, no.5, pp.465-485, 2008 (SCI-Expanded)
- XIV. **Actively and passively excited sinusoidal microstrip and PCB strip antennas operating at K and millimeter-wave bands**
Salman A. O., Cetinkaya H., Vertiy A. A.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, no.5, pp.1302-1308, 2008 (SCI-Expanded)
- XV. **Microwave imaging of immersed dielectric bodies: An experimental survey**
Salman A. O., Gavrilov S., Vertiy A.
ELECTROMAGNETICS, vol.25, no.6, pp.567-585, 2005 (SCI-Expanded)
- XVI. **Subsurface microwave imaging by using angular spectrum of electromagnetic field**
Salman A. O., Gavrilov S., Vertiy A.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.16, no.11, pp.1511-1529, 2002 (SCI-Expanded)
- XVII. **Diffraction tomography method applications in wide frequency range**
Vertiy A., Gavrilov S., Voynovskyy I., Aksoy S., Kudelya A., Salman A. O.
INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, vol.21, no.2, pp.321-339, 2000 (SCI-Expanded)
- XVIII. **A DNP investigation of pi and sigma transitions for nitroxide spin probes at 1.53 mT**
Salman A. O., Sunnetcioglu M., Sungur R., Bingol G.
JOURNAL OF MAGNETIC RESONANCE, vol.134, no.1, pp.1-6, 1998 (SCI-Expanded)

Articles Published in Other Journals

- I. **R-Bant Boşluk Rezonatörü ile Bazı Mikrodalga Malzemelerinin Karmaşık Dielektrik ve Manyetik Geçirgenliklerinin Belirlenmesi**
Salman A. O., Alper F.
Kocaeli Üniversitesi Fen Bilimleri Dergisi, vol.6, no.1, pp.27-35, 2023 (Peer-Reviewed Journal)
- II. **LNA Design and Implementation for Passive Millimeter Wave Imaging System in Ka Band Projekt i wdrożenie LNA dla pasywnego systemu obrazowania fal milimetrowych w paśmie Ka**
Duman M., SALMAN A. O.
Przegląd Elektrotechniczny, vol.98, no.10, pp.86-89, 2022 (ESCI)
- III. **Pasif Milimetre Dalga Görüntüleme Sistemi için Radyometrik Alicının Parabolik Yansıtıcı Antendeki Doğru Konumunun Belirlenmesi**
DUMAN M., SALMAN A. O.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.2, pp.1580-1585, 2020 (Peer-Reviewed Journal)
- IV. **NRW methodu ile malzemelerin elektromanyetik parametrelerinin bulunması.**
DURMUŞ M., SALMAN A. O., YILDIRIM T. Ş.
Kocaeli Üniversitesi Fen Bilimleri Dergisi, vol.1, no.1, pp.13-19, 2018 (Peer-Reviewed Journal)
- V. **Antipodal Vivaldi Antenna for Passive Imaging Technology in Ka Frequency Band**
DUMAN M., SALMAN A. O.
Sakarya University Journal of Science, vol.22, no.4, pp.1130-1134, 2018 (Peer-Reviewed Journal)
- VI. **35 GHz Vivaldi Fed Antenna Design for Passive Millimeter Wave Imaging System in Ka Band**
DUMAN M., SALMAN A. O.
J. of Electrical Engineering, vol.5, no.6, pp.340-343, 2017 (Peer-Reviewed Journal)
- VII. **A New Probe Head Design for the Weak Field Double Resonance Spectrometer**
SALMAN A. O., SÜNNETÇİOĞLU M. M., SUNGUR R., BİNGÖL G.
Turkish Journal Of Electrical Engineering And Computer Sciences, vol.22, no.8, pp.815-824, 1998 (Scopus)

Books & Book Chapters

- I. **İleri Mühendislik Elektromanyetiği**
BAŞARAN E., SALMAN A. O. (Editor)
Palme Yayınevi, Ankara, 2021
- II. **2. Temel Anten Parametreleri**
Salman A. O.
in: Anten Teorisi Analiz ve Tasarım, Elif Aydın, Fatih Çağlar, Ali Kara, Editor, Nobel Yayın Dağıtım, Ankara, pp.27-132, 2013
- III. **5.4. Diffraction Multi-view Tomography Method in Microwave and Millimeter Wave Bands**
Salman A. O., Gavrilov S. P., Vertiy A.
in: Subsurface Sensing, A. S.Türk, K. Hocaoglu, A. A. Vertiy, Editor, John Wiley & Sons, West Sussex, UK, New Jersey, pp.310-364, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **LTE HABERLEŞMESİ İÇİN BANT GENİŞLİĞİ ARTIRILMIŞ DAİRESEL KUTUPLU DÜZLEMSEL DİZİ ANTEN TASARIMI**
Kapıcı A., Salman A. O.
11. ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, İstanbul, Turkey, 16 - 17 March 2024, pp.27-35
- II. **Bütün ve delikli metal yapıların kalkanlama verimliliklerinin incelenmesi**
Özer Koca A., Salman A. O.
12. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, İstanbul, Turkey, 23 - 25 December 2023, pp.1576
- III. **Permittivity Measurements of Some Microwave Dielectric Materials by R-Band Resonator**
Salman A. O., Alper F.
8. INTERNATIONAL CONGRESS ON LIFE, ENGINEERING, AND APPLIED SCIENCES IN A CHANGING WORLD, İzmir, Turkey, 7 - 09 January 2023, pp.148-150
- IV. **Axially Displaced Ellipse Reflector Antenna for Microwave Links MIKRODALGA LINKLERİ İÇİN EKSENEL YER DEĞİŞTİRİLMİŞ ELİPS YANSITICI ANTEN**
As C., SALMAN A. O., DOLMA A.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- V. **The effects of sequential and multiple measurement on RF power Ardişik ve çoklu ölçümün RF güç ölçümüne etkileri**
Yugruk A., Danaci E., Dogan A. K., Salman A. O.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021
- VI. **Pasif Milimetre Dalga Görüntüleme Sistemi için Radyometrik Alıcının Parabolik Yansıtıcı Antendeki Doğru Konumunun Belirlenmesi**
DUMAN M., SALMAN A. O.
3rd International Engineering Research Symposium, Düzce, Turkey, 5 - 07 September 2019
- VII. **Pasif Milimetre Dalga Görüntüleme Sistemine Ait Azimut ve Kalkış Eksenlerinin Uydu Takip-İzleme ve Haberleşme Sistemi Eksenlerine göre Ayarlanması**
DUMAN M., SALMAN A. O.
IMASCON 2019 ULUSLARARASI MARMARA FEN VE SOSYAL BİLİMLER KONGRESİ, Kocaeli, Turkey, 26 - 28 April 2019, pp.175-178
- VIII. **Providing the Moment of the Parabolic Reflector Antenna in the Passive Millimeter Wave Imaging System with the Equilibrium Weights**
DUMAN M., SALMAN A. O.
ICAIAME 2019 International Conference on Artificial Intelligence and Applied Mathematics in Engineering, Antalya,

Turkey, 20 - 22 April 2019

- IX. **Theoretical Investigation of Blackbody Radiation for the Passive Millimeterwave Imaging System**
DUMAN M., SALMAN A. O.
2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, Turkey, 19 - 21 October 2018, pp.1-4
- X. **35 GHz Frekanslı Radyometrik Algılayıcı için Anten Seçimi**
DUMAN M., SALMAN A. O.
ULUSLARARASI MARMARA FEN VE SOSYAL BİLİMLER KONGRESİ (IMASCON), Kocaeli, Turkey, 23 - 25 November 2018, pp.172-176
- XI. **THE CONNECTION TYPES TO MINIMIZE LOSS OF GAIN BETWEEN LOW NOISE AMPLIFIER AND ANTENNA**
DUMAN M., SALMAN A. O.
3rd International Conference on Organic Electronic Material Technologies (OEMT2018), Kırklareli, Turkey, 20 - 22 September 2018, pp.118-121
- XII. **Obtaining the Sky - Temperature Depending on Voltage Value by the Passive Millimeter Wave Imaging System**
DUMAN M., SALMAN A. O.
7th International Advances in Applied Physics and Materials Science Congress Exhibition, Muğla, Turkey, 22 - 26 April 2017, pp.146
- XIII. **Designing a Vivaldi Fed Antenna for Passive Millimeter Wave Imaging System in Ka Band**
DUMAN M., SALMAN A. O.
International Conference on Engineering Technology and Innovation, Sarajevo, Bosnia And Herzegovina, 22 - 26 March 2017, pp.89-93
- XIV. **İyonlaştırıcı Olmayan Radyasyon Bulunan Ortamlarda Risk Değerlendirilmesi**
SALMAN A. O.
III. İş Sağlığı ve Güvenliği Fiziksel Etkenlerde Risk Değerlendirilmesi Sempozyumu, Ankara, Turkey, 04 November 2016
- XV. **Textile antenna for the multi-sensor (Impulse GPR&EMI) subsurface detection system**
SALMAN A. O., BİÇAK E., SEZGİN M.
13th International Conference on Ground Penetrating Radar, GPR 2010, Lecce, Italy, 21 - 25 June 2010
- XVI. **Textile Antenna for the Multi-sensor (Impulse GPREMI) Subsurface Detection System**
SALMAN A. O., BİÇAK E., SEZGİN M.
XIII International Conference On Ground Penetrating Radar, Lecce, Italy, 21 - 25 June 2010
- XVII. **Millimeter-Wave Sinusoidal Slotted Waveguide Antenna**
SALMAN A. O.
The Seventh International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (MSMW 'xx10), Kharkiv, Ukraine, 21 - 26 June 2010
- XVIII. **Phase Velocity Measurement of Surface Wave Propagating Along a Goubau-Line: Wire Resonator Method**
SALMAN A. O.
IEEE EUROCON 2009, San Petersburg, Russia, 18 - 23 May 2009
- XIX. **Millimeter Wave Radiator: Actively and Passively Excited Sinusoidal PCB Strip and Microstrip Antennas**
SALMAN A. O., ÇETİNKAYA H., Vertiy A.
33rd International Conference on Infrared, Millimeter (IRMMW), and Terahertz Waves, Pasadena California, United States Of America, 15 - 19 September 2008
- XX. **MM-Wave Radiation by the Undulator Type Wire Antennas**
Vertiy A., Gavrilov S. P., STEPANYUK V., SALMAN A. O.
The Joint 29th International Conference on Infrared and Millimeter Waves and 12th International Conference on Terahertz Electronics (IRMMW 2004/ THz 2004), Karlsruhe, Germany, 27 September - 01 October 2004, pp.695-696

- XXI. **Sommerfeld wave diffraction by the undulator wire segments**
Vertiy A., Gavrilov S. P., STEPANYUK V., SALMAN A. O.
The Fifth International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (MSMW'xx04), Kharkiv, Ukraine, 21 - 26 June 2004, pp.302-304
- XXII. **Investigation of mm-wave radiation from the undulator type wire antennas**
Vertiy A., Gavrilov S. P., STEPANYUK V., SALMAN A. O.
The Fifth International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (MSMW'xx04), Kharkiv, Ukraine, 21 - 26 June 2004, pp.626-628
- XXIII. **Reconstruction of Microwave Cross-Section Images of Immersed Dielectric Bodies**
SALMAN A. O., Vertiy A., Gavrilov S. P., VOYNOVSKYY I.
1st Hellenic-Turkish International Physics Conference, Muğla-Bodrum, Turkey, 10 - 15 September 2001
- XXIV. **Experimental investigation of radiation from a wire waveguide located close to the surface of a dielectric prism**
Vertiy A., Gavrilov S. P., SALMAN A. O.
The 4th International Kharkov Symposium- "Physics and Engineering of Milimeter and Sub-Milimeter Waves, Kharkiv, Ukraine, 4 - 09 June 2001
- XXV. **Reconstruction of the objects Images by the Diffraction Tomography Method on Microwave and Millimeter Waves**
Vertiy A., Gavrilov S. P., AKSOY S., VOYNOVSKY I., KUDELYA A., SALMAN A. O.
International Workshop on Direct and Inverse Wave Scattering, Kocaeli, Gebze, Turkey, 25 - 29 September 2000, pp.45-54
- XXVI. **Diffraction Tomography Method Development in Wide Frequency Range**
Vertiy A., Gavrilov S. P., VOYNOVSKY I., AKSOY S., SALMAN A. O.
Conference Proceedings 2000 International Conference on Mathematical Methods In Electromagnetic Theory (MMET-2000), Kharkiv, Ukraine, 12 - 15 September 2000, pp.61-67
- XXVII. **Reconstruction on microwave cross-section images of Immersed Dielectric Bodies by first order diffraction tomography method**
SALMAN A. O., Vertiy A., Gavrilov S. P., VOYNOVSKY I.
Progress in Electromagnetics Research Symposiums (PIERS 2000), Cambridge, Canada, 5 - 14 July 2000, pp.350-351
- XXVIII. **Image reconstruction of the subsurface object cross-section from the angle spectrum of scattered field**
Vertiy A., Gavrilov S. P., SALMAN A. O., VOYNOVSKY I.
Proceedings of the International Conference EUROEM 2000, Euro Electromagnetics, 5th Conference on Ultra-wideband, Short-Pulse Electromagnetics, Edinburg, Scotland, İSKOÇYA, 30 May - 02 June 2000, pp.585-597
- XXIX. **Microwave tomography imaging of cylindrical objects by using spectrum data of scattered field**
Vertiy A., Gavrilov S. P., VOYNOVSKY I., SALMAN A. O.
Proceedings of the Eighth International Conference on Ground Penetrating Radar (GPR 2000), Gold-Coast, Australia, 23 - 26 May 2000, vol.4084, pp.362-365
- XXX. **C- band tomography system for imaging of cylindrical objects**
Vertiy A., Gavrilov S. P., ADIGÜZEL T., VOYNOVSKY I., YÜCEER K. G., SALMAN A. O.
Subsurface Sensors and Applications- Proceeding of SPIE, Denver, Colorado, United States Of America, 19 - 21 July 1999, vol.3752, pp.224-230
- XXXI. **Zayıf alan bölgesinde ESR sigma geçişlerinin deneysel olarak incelenmesi**
SALMAN A. O., SÜNNETÇİOĞLU M. M., SUNGUR R., BİNGÖL G.
16. Uluslararası Fizik Kongresi, Turkey, 26 - 29 August 1996, pp.121
- XXXII. **Alçak alan bölgesinde ESR: nitroksit spin etiketlerinde π geçişlerinin incelenmesi**
SALMAN A. O., SÜNNETÇİOĞLU M. M., SUNGUR R., BİNGÖL G.
15. Uluslararası Fizik Kongresi, Turkey, 26 - 29 September 1995, pp.72

Other Publications

- I. **Mikrodalga ve Anten Laboratuvarı Deney Föylerinin hazırlanması**
Salman A. O.
Experiment, pp.1-95, 2013
- II. **Studies in The First 6 Months in The Electrosience Laboratory, Ohio State University**
Salman A. O.
Technical Report, pp.1-120, 2003
- III. **Turkish- Ukrainian Joint Research Laboratory (TUJRL) 2001 Annual Report - Chapter 8**
Salman A. O.
Technical Report, pp.131-143, 2001
- IV. **Turkish- Ukrainian Joint Research Laboratory (TUJRL) 2000 Annual Report - Chapter 2**
Salman A. O.
Technical Report, pp.56-98, 2000
- V. **The Trainee Students Report**
Salman A. O.
Technical Report, pp.1-185, 2000
- VI. **Turkish- Ukrainian Joint Research Laboratory (TUJRL) 1999 Annual Report - Chapter II -**
Salman A. O.
Technical Report, pp.72-83, 1999

Supported Projects

2022 - 2024	GNP Kaplı Zincir Yapılı MXene Ti3C2Tx Nanoyapı ve NonNewtonian Akışkan ile Modifiye Edilmiş Özgün Bir Sandviç Kompozit Zırh Üretimi, Project Supported by Higher Education Institutions
2014 - 2016	Mikrodalga ve Milimetre Dalga Yansız Odasının Kurulumu, Project Supported by Higher Education Institutions
2013 - 2015	MİLİMETRE DALGA PASİF GÖRÜNTÜLEME SİSTEMİ MİLGÖR, Project Supported by Higher Education Institutions
2007 - 2009	Yüzeyaltı Tespit Sistemi : GPR ve Metal Dedektörü (Çift Sensör), Project Supported by Defense Industry
2006 - 2008	Yüzey Dalgalı Yüksek Frekans Radarı Kavram Gösterim Projesi, TUBITAK Project
2005 - 2007	Kamuflaj Ağları Projesi, Project Supported by Defense Industry
2001 - 2006	TUOAL (Türk-Ukrayna Ortak Araştırma Laboratuvarı) Projesi, Project Supported by Other Official Institutions
2005 - 2005	Radar Soğurucu Malzemelerin Geliştirilmesi ve Test Edilmesi, Project Supported by Other Official Institutions
2004 - 2005	Sahra ve Mağara Tomografi Cihazı (SAMATO) Projesi, Project Supported by Other Official Institutions
2003 - 2004	Güvenlik Çiti Radarı, Industrial Organizations of Other Countries Supported Project
2000 - 2002	Mikrodalga Absorblayıcı Malzemeler, Project Supported by Other Official Institutions
2000 - 2001	Deprem Radarı Projesi, Project Supported by Other Official Institutions
1999 - 2001	Yüzeyaltı Tespit Sistemi: Mikrodalga Tomografi Sensörü , Project Supported by Defense Industry
1996 - 1998	NMR ve EPR Yöntemi ile Nitroksit Spin Etiketlerinin Farklı Ortamlardaki Dinamik Özelliklerinin İncelenmesi, TUBITAK Project

Activities in Scientific Journals

2020 - Continues	Gumushane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Evaluation Committee Member
2018 - Continues	Gazi University Journal of Science, Evaluation Committee Member
2018 - Continues	Kocaeli Üniversitesi Fen Bilimleri Dergisi, Editor

2018 - Continues	Kocaeli Üniversitesi Fen Bilimleri Dergisi, Evaluation Committee Member
2019 - 2020	Mugla Journal of Science and Technology, Evaluation Committee Member
2019 - 2019	International journal of advances in engineering and pure sciences (Online), Evaluation Committee Member

Scientific Refereeing

August 2020	optical Letters, Journal Indexed in ESCI
July 2020	Mugla Journal of Science and Technology, National Scientific Refreed Journal
July 2020	JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, SCI Journal
May 2020	Kocaeli Üniversitesi Fen Bilimleri Dergisi, Other Journals
March 2020	TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Istanbul Technical University, Turkey
October 2019	JOURNAL OF NANOPHOTONICS, SCI Journal
December 2018	TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCIE
July 2018	Project Supported by Other Official Institutions, Hitachi Kokusai Electric Turkey Yayıncılık Sistemleri Anonim Şirketi, Turkey
June 2018	Project Supported by Other Official Institutions, Makelsan Makine Kimya Elektrik San. ve Tic. A.Ş., Turkey
January 2018	KOSGEB, DİA TEKNOLOJİ MÜHENDİSLİK MAKİNA SANAYİ VE TİCARET ŞTİ., Turkey
January 2018	KOSGEB, SİMPRO Elektronik Kart Üretimi Sanayii ve Ticaret Ltd. Şti., Turkey
January 2018	KOSGEB, SMS SANAYİ MALZEMELERİ ÜRETİM VE SATIŞI AŞ, Turkey
January 2018	KOSGEB, İMPLANTEK MEDİKAL SAN.TİC.LTD.ŞTİ., Turkey
December 2016	PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, SCI Journal
June 2016	TUBITAK Project, 1501 - Industry R & D Projects Support Program, PA ELEKTRONİK BİLİŞİM TEKNOLOJİSİ ENERJİ VE SAVUNMA SANAYİ DIŞ TİCARET LİMİTED ŞİRKETİ, Turkey
April 2016	TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCIE
October 2015	IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, SCI Journal
September 2015	TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, MEDECİ DENİZCİLİK MÜHENDİSLİK GÖZETİM DANIŞMANLIK SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey
September 2015	TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, RFTR ELEKTRONİK ARAŞTIRMA GELİŞTİRME SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey
July 2015	TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, ERMAKSAN MAKİNA SAN. VE TİC. A.Ş., Turkey
April 2015	TUBITAK Project, 1501 - Industry R & D Projects Support Program, ORTANA ELEKTRONİK YAZILIM TAAH. SAN. VE TİC. A.Ş., Turkey
November 2014	TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Atatürk Üniversitesi, Turkey
April 2014	Ministry of Health, Aselsan, Turkey
February 2014	TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCIE
February 2014	Turkish Journal Of Electrical Engineering And Computer Sciences, Journal Indexed in SCIE

Scientific Consultations

2018 - 2020	Scientific Consultancy, Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi
2018 - 2018	Scientific Consultancy, Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi

2017 - 2018	Scientific Consultancy, Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi
2017 - 2017	Scientific Consultancy, Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi
2016 - 2017	Scientific Consultancy, Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi

Metrics

Publication: 70
Citation (WoS): 94
Citation (Scopus): 127
H-Index (WoS): 6
H-Index (Scopus): 6

Invited Talks

May 2019	7 İklim Koleji Bilim Şenliği Kapsamında Çağrılı Konuşma, Seminar, 7 İklim Koleji, Turkey
May 2001	AKUT (Arama Kurtarma Derneği) İzmit Deprem Toplantısında Deprem Radarının Tanıtımı, Seminar, AKUT (Arama Kurtarma Derneği), Turkey
March 2000	Koşuyolu Polis Hastanesi Deprem Hazırlığı Toplantısı, Seminar, TRT Ana Haber / Koşuyolu Polis Hastanesi, Turkey

Scholarships

2002 - 2003	Dünya Bankası Kredisi Bursu, TÜBİTAK
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Awards

April 2019	Doktora çalışması ile yapılan yayına danışman yayın teşvik ödülü. "Obtaining the Sky-Temperature Dependence on Voltage Value by the Passive Millimeter Wave Imaging System".-, Cilt: 134, No: 1, Sf: 346-348, 2018., Tübitak
June 2009	Yüzeyaltı Tespit Sistemi (Çift Sensör) projesindeki görevi için., Tübitak Marmara Araştırma Merkezi
June 2009	SARGAN (Yüzey Dalgaları Yüksek Frekans Radarı Kavram Geliştirme) projesindeki görevi için., Tübitak Marmara Araştırma Merkezi
April 2006	Sahara ve mağara tomografi cihazı geliştirilmesi projesindeki yürütücü yardımcılığı görevi için., Tübitak Marmara Araştırma Merkezi
July 2001	Genç Bilim Adamı En İyi Bildiri Ödülü, Kharkov Ulusal Üniversitesi - Msmw 2001 Uluslararası Konferansı
September 2000	Mikrodalga Soğurucu Malzemeler projesinde gerçekleştirilen malzemelerin elektromanyetik karakterizasyonunu, Tübitak Marmara Araştırma Merkezi

Visual Activities

2002 - 2002	Salman A. O., TRT Ana Haber / İstanbul Koşuyolu Polis Hastanesi Deprem Hazırlıkları Konferansı Konuşması, News Agency
2002 - 2002	Salman A. O., Hürriyet Gazetesi yayınlanan "Nabızdan Yer Belirleyen Radar Geliştiriliyor" Haberi, Newspaper Publishing

Non Academic Experience

2021 - 2021	ADLİ YARGI KURULUŞLARI
2019 - 2020	Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi
2019 - 2019	ADLİ YARGI KURULUŞLARI
2018 - 2018	Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi
2017 - 2018	İstanbul Şehir Üniversitesi (Electrical and Electronics Engineering)
2016 - 2018	Gedik Üniversitesi (Elektrik Elektronik Mühendisliği)
2017 - 2017	Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi
2016 - 2017	Kocaeli Üniversitesi Teknopark - Teknoloji Transfer Ofisi
2016 - 2016	ADLİ YARGI KURULUŞLARI
2011 - 2012	TÜBİTAK - BİLGEM (BİLİŞİM ve BİLGİ GÜVENLİĞİ İLERİ TEKNOLOJİLER ARAŞTIRMA MERKEZİ)
2008 - 2012	Public Research Center, Mikrodalga ve Elektronik Laboratuvarı
2007 - 2012	Deniz Harb Okulu - Elektronik ve İletişim Mühendisliği
2010 - 2011	TÜBİTAK - UEKAE (Uluslararası Elektronik ve Kriptoloji Araştırma Enstitüsü)
2007 - 2010	TÜBİTAK - BTE (Bilişim Teknolojileri Enstitüsü)
2000 - 2007	Public Research Center, Türk Ukrayna Ortak Araştırma Laboratuvarı / Uluslararası Yüksek Teknoloji Laboratuvarı
1999 - 2007	TÜBİTAK Marmara Araştırma Merkezi - Malzeme Enstitüsü – Türk-Ukrayna Ortak Araştırma Laboratuvarı (TUOAL) ve Uluslararası Yüksek Teknoloji Laboratuvarı
2002 - 2003	Ohio State University - Electrical and Computer Engineering Department - ElectroScience Laboratory
2002 - 2003	Ohio Devlet Üniversitesi-Elektrik ve Bilgisayar Mühendisliği-Electroscience Laboratuvarı