

Res. Asst. PhD Alper ÇALIŞKAN

Personal Information

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Education Information

Doctorate, Yıldız Technical University, Faculty of Electrical & Electronics, Electronics And Communication Engineering, Turkey 2014 - 2019

Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Elektronik Ve Haberleşme Müh., Turkey 2012 - 2014

Undergraduate, Yıldız Teknik Üniversitesi, Elektronik Ve Haberleşme Müh., Turkey 2007 - 2011

Foreign Languages

Japanese, A2 Elementary

English, B2 Upper Intermediate

Research Areas

Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation, Passive Microwave Circuits, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2014 - Continues

Courses

Undergraduate, 2019 - 2020

Numerical Solution Methods, Undergraduate, 2020 - 2021

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

- I. **A Novel Design of Non-Uniform Reflectarrays with Symbolic Regression and its Realization using 3-D Printer**
MAHOUTÍ P., GÜNEŞ F., Belen M. A. , ÇALIŞKAN A.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.34, no.2, pp.280-285, 2019 (Journal Indexed in SCI)
- II. **Axially displaced elliptical reflector antenna design with a switchable feeder for ultra-wide band applications**

Kenan A. K. , ÇALIŞKAN A.

IET MICROWAVES ANTENNAS & PROPAGATION, vol.12, no.14, pp.2141-2148, 2018 (Journal Indexed in SCI)

III. Modeling and Realization of Cavity-Backed Dual Band SIW Antenna

Belen M. A. , Mahouti P., ÇALIŞKAN A., BELEN A.

APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.32, no.11, pp.974-978, 2017 (Journal Indexed in SCI)

IV. Horn antennas with enhanced functionalities through the use of frequency selective surfaces

Mahouti P., GÜNEŞ F., Belen M. A. , ÇALIŞKAN A., Demirel S., Sharipov Z.

INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.26, no.4, pp.287-293, 2016 (Journal Indexed in SCI)

V. Ultra-wide band antenna designs and numerical system modelling for forward-looking GPR

TÜRK A. S. , Aksoy S., Keskin A. K. , Senturk M. D. , ÇALIŞKAN A., Ozakin M. B.

NEAR SURFACE GEOPHYSICS, vol.13, no.3, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

I. ISM Band Haberleşme Uygulamaları İçin Origami Anten Tasarımı

Çalışkan A., Kızılay A., Belen M. A. , Mahouti P.

European Journal of Science and Technology, vol.2019, no.16, pp.785-791, 2019 (Refereed Journals of Other Institutions)

II. Subsurface and through-wall SAR imaging techniques for ground penetrating radar

ÜNAL M., Caliskan A., Turk A. S. , Ozkan Bakbak P.

Technology and Design in Electronic Equipment, vol.37, no.6, pp.32-36, 2013 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

I. Circularly Polarized Corrugated Horn Fed Nonuniform Reflectarray Antenna

ÇALIŞKAN A., GÜNEŞ F., Serdar Turk A.

2020 IEEE Ukrainian Microwave Week, UkrMW 2020, Virtual, Kharkiv, Ukraine, 21 - 25 September 2020, pp.213-216

II. Waveguide Slot-Fed Horn Antenna Array with Suppressed Sidelobes

Yamaç Y. E. , Çalışkan A., Türk A. S. , Kızılay A.

Signal Processing Symposium, Krakow, Poland, 16 - 19 September 2019

III. 24 GHz short range radar system measurements for synthetic aperture radar imaging

ÇALIŞKAN A., YAMAÇ Y. E. , UYSAL H., TÜRK A. S. , KIZILAY A., Orhan M.

2017 IEEE Microwaves, Radar and Remote Sensing Symposium (MRRS), Kiev, Ukraine, Ukraine, 29 - 31 August 2017, pp.285-287

IV. Design of Displaced and Circular Polarized Waveguide Slot Array Antenna with Dielectric for K-Band Radar Application

Cumurcu O., ÇALIŞKAN A., YAMAÇ Y. E. , TÜRK A. S.

International Radar Symposium 2017, Prag, Czech Republic, 28 June 2017, pp.1

V. Experimental study of human respiratory detection using UWB GPR

Büyükhan C., Karamzadeh S., Orhan M., ÇALIŞKAN A., Cilesiz I.

4th International Conference on Electrical and Electronics Engineering, ICEEE 2017, Ankara, Turkey, 8 - 10 April 2017, pp.314-317

VI. BACKGROUND SUBTRACTION TECHNIQUES TO DETECT HUMAN VITAL SIGNS USING UWB GPR

BÜYÜKHAN C., KARAMZADEH S., ÇALIŞKAN A., Orhan M., CILESİZ I.

International Conference on Advanced Technology & Sciences, İstanbul, Turkey, 09 May 2017, pp.1-2

- VII. **High Resolution Signal Processing Techniques for Millimeter Wave Short Range Surveillance Radar**
TÜRK A. S. , KIZILAY A., Orhan M., ÇALIŞKAN A.
IRS 2016 - 17th International Radar Symposium, 10 - 12 May 2016
- VIII. **Design and Realization of Dual Band Microstrip Monopole Antenna**
Mahouti P., GÜNEŞ F., Belen M. A. , ÇALIŞKAN A., Demirel S.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- IX. **Design of Dielectric Lens Loaded Double Ridged Horn Antenna for Millimetre Wave Application**
Demirel S., ÇALIŞKAN A., Mersin M. T. , TÜRK A. S. , Belen M. A. , Mahouti P.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- X. **Microstrip SIW Patch Antenna Design for X band Application**
Belen M. A. , GÜNEŞ F., ÇALIŞKAN A., Mahouti P., Demirel S., YILDINM A.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- XI. **Coplanar Stripline-Fed Microstrip Yagi-Uda Antenna for ISM Band Application**
ÇALIŞKAN A., GÜNEŞ F., Belen M. A. , Mahouti P., Demirel S.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016
- XII. **Design of a Multiband Microstrip Patch Antenna with Defected Ground Structures (DGS)**
ÇALIŞKAN A., Belen M. A. , MAHOUTİ P., DEMİREL S., GÜNEŞ F.
European Microwave Week (EuMA), Paris, France, 07 September 2015, pp.1387-1390
- XIII. **PSO Algoritması ile Çok Katmanlı Algılayıcı Ağ Mimarisinin Belirlenmesi**
ÇALIŞKAN A., ÇİMEN S., YILDIRIM T.
Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu, Turkey, 9 - 10 October 2014
- XIV. **Analog Signal Processing for UWB Sounding**
Ruban V., Shuba O., Pochanin G., Türk A. S. , Keskin A. K. , Şentürk M. D. , ÇALIŞKAN A.
Proc. Of 7th International Conference on Ultra Wideband and Ultra Short Impulse Signals, Kharkiv, Ukraine, 01 September 2014, pp.55-58
- XV. **Development of Signal Processing Techniques for Through-Wall Imaging Radar Systems**
Ünal M., ÇALIŞKAN A., Türk A. S. , Orhan M., Özdemir M.
01 June 2014
- XVI. **UWB Compact TEM Ridged Horn Antenna**
ŞENTÜRK M. D. , Çalışkan A., Türk A. S.
ACES, 01 March 2014, vol.1, pp.1
- XVII. **Compact Partially Dielectric Loaded Ridged Horn Antenna**
ŞENTÜRK M. D. , Çalışkan A., Demirel S., Türk A. S.
ACES, 01 March 2014, vol.1, pp.1

Other Publications

- I. **Geniş Bantlı TEM ve Ridged Horn Anten Dizisi Tasarımı**
ÇALIŞKAN A.
Other, 1

Supported Projects

MAHOUTİ P., GÜNEŞ F., BELEN M. A. , EVRANOS İ. Ö. , ÇALIŞKAN A., Project Supported by Higher Education Institutions, 3B Boyutlu Yazıcı Teknolojisi ile Yenilikçi Mikrodalga Deverelernin Tasarımı ve Gerçekleştirilmesi, 2018 - 2019

Kızılay A., Türk A. S. , Sedef H., TÜBİTAK International Bilateral Joint Cooperation Program Project, Millimeter Wave Short Range Active and Passive Sensors for Intelligent Alarm Systems, 2015 - 2017

Türk A. S. , Çalışkan A., FP7 Project, Active and Passive Microwave and Millimeter Wave Systems for Security and Subsurface Imaging (AMISS), 2011 - 2014

Türk A. S. , TUBİTAK Project, Araca Monteli İleri Bakan Yere Nüfuz Eden Radar YNR için Çok Geniş Bantlı Anten Sistemleri Tasarımı ve Uygulaması, 2011 - 2013

Scientific Refereeing

INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, Journal Indexed in SSCI, September 2019

ELECTRONICS LETTERS, Journal Indexed in SSCI, August 2019

IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, SCI Journal, December 2018

Citations

Total Citations (WOS):31

h-index (WOS):3

Scholarships

2211A Genel Doktora Bursu, TUBİTAK, 2015 - 2019