

Asst. Prof. YASİN KARAN

Personal Information

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Address: Recep Tayyip Erdoğan Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Müh. Bölümü, Fener Mah. Merkez-Rız

International Researcher IDs

ScholarID: uKh4cmUAAAAJ

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Publons / Web Of Science ResearcherID: HSF-3568-2023

ScopusID: 54414252600

Yoksis Researcher ID: 47284

Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2011 - 2021

Postgraduate, University of Rochester, Electrical And Computer Engineering, Communications, United States Of America 2007 - 2009

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 2002 - 2006

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Information Systems, Communication and Control Engineering, Communication Engineering, Error Corrector Codes, Wireless Communication, Control and System Engineering, Signal Processing, Signal Processing for Communication, Electrical and Electronics Engineering, Electromagnetic Environment and Interaction, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, Elektrik Ve Elektronik Mühendisliği, 2023 - Continues

Lecturer, Recep Tayyip Erdogan University, Mühendislik Ve Mimarlık Fakültesi, Elektrik Ve Elektronik Mühendisliği, 2015 - 2023

Lecturer, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2010 - 2023

Academic and Administrative Experience

Erasmus Program Department Coordinator, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ,

ELEKTRİK VE ELEKTRONİK MÜHENDİSLİĞİ, 2019 - Continues

Erasmus Program Department Coordinator, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Fizik Bölümü,
2013 - 2015

Courses

Thesis, Undergraduate, 2022 - 2023, 2021 - 2022

Electricity Measurement Techniques, Undergraduate, 2022 - 2023, 2021 - 2022

Wireless Communication, Undergraduate, 2022 - 2023, 2021 - 2022

Communication Systems, Undergraduate, 2022 - 2023, 2021 - 2022

Design Project, Undergraduate, 2021 - 2022

Mikroişlemciler, Undergraduate, 2021 - 2022

Elektrik-Elektronik Mühendisliğine Giriş, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Bitirme Tezi-I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Analog Haberleşme, Undergraduate, 2020 - 2021, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance Comparison of Wireless Body Area Network Protocol with Dual Carrier Modulations**
KARAN Y., KAHVECİ S.
Journal of Communications Technology and Electronics, vol.68, no.5, pp.527-539, 2023 (SCI-Expanded)
- II. **Deposition and characterization of the Ag nanoparticles on absorbable surgical sutures at the cryogenic temperatures**
Altuntas M., Beris F. S., Nevruzoglu V., Karan Y., Kanat A., Tomakin M.
APPLIED PHYSICS A: MATERIALS SCIENCE AND PROCESSING, vol.129, pp.128-138, 2023 (SCI-Expanded)
- III. **QPSK-dual carrier modulation for ultra-wideband communication in body area network channels**
Karan Y., KAHVECİ S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.4, pp.2526-2540, 2019 (SCI-Expanded)
- IV. **Investigation of GSM, LTE and Wi-Fi Electromagnetic Radiation in Dwellings**
Karan Y., As N., Sahin M. E.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.509-512, 2017 (SCI-Expanded)
- V. **OFDM Performance of Ultra Wideband in Wireless Body Area Network Channel**
Karan Y., Sayli O., KAHVECİ S.
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.574-576, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparative Detection of Tea and Fern with YOLOv5 and YOLOv8 Algorithms**
ÖZPOLAT Ö. F., Karan Y.
Recep Tayyip Erdoğan Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.5, no.1, pp.74-88, 2024 (Peer-Reviewed Journal)
- II. **Zırhlı Ölçüm Odasına Sahip Radyasyon Dedektörleri için Uzaktan Kontrollü Numune Değiştiricisinin Tasarlanması ve Geliştirilmesi**
KARAN Y., Yıldız E., DİZMAN S., TOKÇALAR S.
Karadeniz Fen Bilimleri Dergisi, vol.13, no.4, pp.1824-1835, 2023 (Peer-Reviewed Journal)
- III. **Comparative analysis of dual carrier modulations with channel coding and space-time coding**

- Karan Y., Kahveci S.
Turkish Journal of Electromechanics and Energy, vol.8, no.2, pp.77-84, 2023 (Peer-Reviewed Journal)
- IV. **5G Baz İstasyonlarının Kapsama Alanına Yönelik Yol Kaybı Analizleri ve Konumlandırılması**
Özaslan M. A., KARAN Y.
Kocaeli Üniversitesi Fen Bilimleri Dergisi, vol.4, no.1, pp.6-13, 2021 (Peer-Reviewed Journal)
- V. **Electromagnetic radiation measurement of a high gain wireless network adapter**
KARAN Y., AS N.
Turkish Journal of Electromechanics and Energy, vol.1, no.2, pp.17-23, 2016 (Peer-Reviewed Journal)
- VI. **Electromagnetic pollution measurement in the RTE university campus area**
Dilek B., AS N., ŞAHİN M. E., KARAN Y.
Global Journal on Advances Pure and Applied Sciences, no.3, pp.65-72, 2014 (Peer-Reviewed Journal)
- VII. **Selective Radiation Measurement for Safety Evaluation on Base Stations**
ŞAHİN M. E., KARAN Y., AS N.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.26, no.1, pp.73-83, 2013 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **SİYAH ÇAY ÜRETİMİNDE NEM ORANI ÖLÇÜMLERİ**
KARAN Y., İnce B. E., TOKÇALAR S.
Ulusal Çay Kongresi, Rize, Turkey, 21 - 23 May 2024
- II. **CENTRIFUGE-BASED WATER CONTENT DETERMINATION SYSTEM DESIGN FOR GREEN TEA**
İnce B. E., TOKÇALAR S., KARAN Y., DİZMAN S.
1. International Technology Transfer Symposium 2024, Samsun, Samsun, Turkey, 6 - 08 May 2024
- III. **Detection of Tea and Fern With Yolo Algorithms**
ÖNDER Ö., KARAN Y.
1. International Technology Transfer Symposium 2024, Samsun, Samsun, Turkey, 6 - 08 May 2024
- IV. **Investigation of the Effect of Electromagnetic Radiation on Honey Bees**
Karan Y., Kuvancı A., Dizman S., As N., Sayı B. C., Cınbirtoğlu Ş., Öztürk S. H., Şahin M. E.
1. International Apitherapy and Nature Congress , Nakhchivan, Azerbaijan, 1 - 03 June 2023, vol.1, no.1
- V. **Gama Dedektörleri için Uzaktan Kontrollü Örnek Değiştirici**
YILDIZ E., KARAN Y., DİZMAN S., TOKÇALAR S.
III. Ulusal Radyasyondan Korunma Kongresi, Ankara, Turkey, 02 December 2022
- VI. **Colony Counting and Area Detection With Image Processing**
Kar M. A., KARAN Y.
1st International Conference on Electrical-Electronics and Computer Engineering, Trabzon, Turkey, 25 July 2021
- VII. **Extraction of Theoretical Bit and Symbol Error Rates of Dual Carrier Modulation with QPSK**
Karan Y., KAHVECİ S.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- VIII. **Rize İl Merkezinde Bulunan Temel Eğitim Müdürlüğüne Bağlı Okullarda Elektromanyetik Alan Seviyelerinin Belirlenmesi**
AS N., Erdem K., KARAN Y., DİZMAN S.
2nd International Symposium on Innovative Approaches in Scientific Studies, Samsun, Turkey, 30 November - 02 December 2018, pp.53
- IX. **Determination of Electromagnetic Field Levels in High School districts in Rize Province**
AS N., DİZMAN S., KARAN Y.
International Conference on Science and Technology, Prizren, Kosova, 5 - 09 September 2018, pp.53
- X. **Data Logger Design for Temperature and Humidity Measurement in Beehives**
KARAN Y., BOZKURT A., KAPUKAYA E.
1st International Technology Sciences and Design Symposium, 28 - 30 June 2018
- XI. **Designing of a Demonstration Experiment Showing Free Fall and Projectile Motion Together**

DİZMAN S., Aşık F. Z., KARAN Y.

1st International Technology Sciences and Design Symposium, Giresun, Turkey, 28 - 30 June 2018, pp.53

XII. Dual Carrier Modulation Ultra-wideband Communication in Body Area Network Channel

KARAN Y., KAHVECİ S.

1st International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 November 2017

XIII. Experimental Setup for Analyzing Electromagnetic Radiation Effect on Bees and Bee Products

KARAN Y., DİZMAN S., Sayı B. C., AS N., ŞAHİN M. E.

International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017, pp.71

XIV. Bayburt Demirözü Beşpınar Beldesi Elektromanyetik Kirlilik Ölçümleri

Sayı B. C., AS N., KARAN Y., DİZMAN S., ŞAHİN M. E.

International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017, pp.1018

XV. OFDM Performance of Ultra Wideband in Wireless Body Area Network Channel

Karan Y., Şaylı O., Kahveci S.

3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN), Antalya, Turkey, 19 - 24 October 2016, pp.300

XVI. Investigation of GSM LTE and Wi Fi Electromagnetic Radiation in Dwellings

Karan Y., Şahin M. E., AS N.

3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN), Antalya, Turkey, 19 - 24 October 2016, pp.311

XVII. Investigation of Thermal Variation on Skin Surface due to GSM and Wi-Fi Electromagnetic Radiation
AS N., KARAN Y.

1. International Black Sea Congress on Environmental Science, Giresun, Turkey, 31 August - 03 September 2016, vol.1, no.1, pp.71

XVIII. LMS and RLS Equalizer Performances of Ultra Wideband System in Body Area Network Channel

Karan Y., KAHVECİ S.

24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.285-288

XIX. The Efficiency Evaluation Of Using Led Lamps Instead of Conventional Lamps In East Blacksea Region's Highway and Rize City

Kanbur H., KARAN Y., AKÇAY N.

9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.225

XX. Wireless Measurement of Thermocouple with Microcontroller

Karan Y., KAHVECİ S.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.120-123

XXI. Electromagnetic Pollution Measurement in the RTE University Campus Area

Dilek B., AS N., ŞAHİN M. E., KARAN Y.

2nd Global Conference on Environmental Studies, Roma, Italy, 10 - 12 April 2014, pp.53

XXII. Spectrum analyzer measurement technique for safety evaluation on wireless communication systems
ŞAHİN M. E., KARAN Y., AS N.

2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011

Supported Projects

Karan Y., TUBITAK Project, Endüstriyel Çay Fırınlarda Nem Tespiti İle Çay Kalite Arttırımı Ve Fırın Ünitelerinde Enerji Optimizasyonu, 2023 - 2024

Karan Y., Tokçalar S., İnce B. E., TUBITAK Project, Water rate measurement system on green tea leaves: Dropmeter, 2021

- 2022

ALTUNTAŞ M., NEVRUZOĞLU V., BERİŞ F. Ş., TOMAKİN M., KARAN Y., Project Supported by Higher Education Institutions, Polimer Temelli Sütürlerin Soğuk Altılık Yöntemi ile Kaplanması ve Biyofiziksel Özelliklerinin İncelenmesi, 2018 - 2020
AS N., İNCE B. E., ŞAHİN M. E., KARAN Y., DİZMAN S., SAYI B. C., KUVANCI A., ÖZTÜRK H., CİNBİRTÖĞLU Ş., AYDIN E., Project Supported by Higher Education Institutions, İyonize Olmayan Elektromanyetik Radyasyonun Bal Arıları ve Bal Üretimi Üzerindeki Etkilerinin İncelenmesi, 2017 - 2019
AS N., DİZMAN S., KARAN Y., ŞAHİN M. E., Dilek B., Project Supported by Higher Education Institutions, Çevrede Bulunan İyonize Olamayan Elektromanyetik Alan (0-300 GHz) Kirliliğinin ve Elektromanyetik Alanların Vücut Yüzeyinde Oluşturduğu Isıl Değişimlerin İncelenmesi, 2013 - 2016

Patent

Karan Y., İnce B. E., Hasadı yapılmış çay bitkisi üzerindeki su ölçüm sistemi., Patent, CHAPTER G Physics, The Invention Registration Number: TR 2020 22789 B , Standard Registration, 2024
Tomakin M., Nevruzoğlu V., Altuntaş M., Beriş F. Ş., Karan Y., Mekanik ve antibakteriyel özellikleri artırılmış polimer temelli emilebilir cerrahi sütürlerin eldesi için kaplama yöntemi, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2018/11733 , Standard Registration, 2022

Scientific Research / Working Group Memberships

Elektromanyetik Uygulama Ve Araştırma Merkezi, Recep Tayyip Erdogan University, Türkiye,
<http://remam.idari.erdogan.edu.tr/tr/page/hakkimizda/2450>, 2016 - Continues

Metrics

Publication: 34
Citation (WoS): 5
Citation (Scopus): 6
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

27. Sinyal İşleme ve Uygulamaları Kurultayı, Attendee, Sivas, Turkey, 2019
1st International Technology Sciences and Design Symposium, Attendee, Giresun, Turkey, 2018
1st International Symposium on Multidisciplinary Studies and Innovative Technologies, Attendee, Tokat, Turkey, 2017
3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN), Attendee, Antalya, Turkey, 2016
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Attendee, Malatya, Turkey, 2015
URSIGASS2011 IEEE Conference, Attendee, İstanbul, Turkey, 2011

Scholarships

Yurtdışı Erasmus Bursu, University, 2012 - 2013
Milli Eğitim Bakanlığı Yurtdışı Yüksek Lisans Bursu, Ministry of Education, 2007 - 2009

Awards

Karan Y., İnce B. E., Tokçalar S., Tarım Teknolojileri Yarışması, T3 Vakfı, August 2022

Karan Y., Talak S., Bayraktar S., Savunma, Uzay ve Havacılık alanı, Tübitak, June 2020

Non Academic Experience

Technology Development Zone, İnce ArGe, Ürün Geliştirme

Other Public Institution, İstanbul İl Milli Eğitim Müdürlüğü

Business Establishment Private, Sunny Teknoloji