

## Prof. ALİ KARA

### Personal Information

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### International Researcher IDs

ScholarID: [yVB187cAAAAJ](https://orcid.org/0000-0002-9739-7619)

ORCID: [0000-0002-9739-7619](https://orcid.org/0000-0002-9739-7619)

Publons / Web Of Science ResearcherID: [R-8038-2019](https://publons.com/author/104039)

Yoksis Researcher ID: [104039](https://yoksis.gazi.edu.tr/)

### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği  
A.B.D., Turkey 1996 - 2002

Doctorate, Polytechnic University, Brooklyn Campus, Tandon School of Engineering, Electrical  
and Computer Engineering, United States Of America 1999 - 2000

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği,  
Turkey 1993 - 1996

Undergraduate, Erciyes University, Mühendislik Fakültesi, Turkey 1988 - 1992

### Biography

Ali Kara received his Ph.D. in Electrical and Electronics Engineering from Hacettepe University, Ankara, in 2002. He was a research assistant/scholar at Polytechnic University (New York University, Brooklyn, NY) from 1999 to 2000, in an industry-sponsored project (Symbol Technologies/Motorola).

In 2000, he joined the Department of Electrical and Electronics Engineering at Atılım University, where he held various positions from lecturer to full professor. He was the Director of the Graduate School of Natural and Applied Sciences at Atılım University until 2021.

Dr. Kara has published extensively in journals, mostly with his graduate students, and has presented his research findings at relevant conferences. He has also led many research projects in the areas of electromagnetics, wireless communications, radar and electronic warfare systems, and engineering education.

In one project, he led a team of researchers from universities across Europe to develop a Virtual and Remote Laboratory (VRL) platform (ERRL-European Remote Radio Laboratory). This platform was unique at the time and was fully funded by the European Commission. Dr. Kara has five patents to his name.

His research interests lie in a broad range of areas, including wireless communications, electromagnetics, radar and electronic warfare, data-driven techniques in engineering, and engineering education. In recent years, he has focused on the use of artificial intelligence (ML/DL) to solve problems in these areas.

See [Ali Kara's Google profile](#) for research publications.

See [Ali Kara's Youtube Channel](#) for some of the course recordings.

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Theoretical and experimental investigation of radio propagation for urban and indoor wireless communication systems at UHF band, Hacettepe University, Fen Bilimleri Enstitüsü, 2002

Postgraduate, Scattering of plane waves by corrugated surfaces, Cukurova University, 1996

## Research Areas

Communication Networks, Wireless Communication, Radar Theory, Radionavigation and Direction Finding, Telecommunication Applications, Sattelite Communication, Signal Processing for Communication, Pattern Recognition and Analysis, Signal Processing Theory and Methods, Hardware Security, Communications and Network Protocols, Artificial Intelligence, Computer Learning and Pattern Recognition, Microwave Circuits, Wave Propagation and Remote Sensing, Electromagnetic Waves, Antennas and Propagation

## Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2021 - Continues

Professor, Atilim University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2015 - 2021

Associate Professor, Atilim University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2010 - 2015

Assistant Professor, Atilim University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2003 - 2010

Lecturer, Atilim University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2000 - 2002

Research Assistant, Polytechnic University, Brooklyn Campus, Electrical and Computer Engineering, 1999 - 2000

Research Assistant, Kütahya Dumlupinar University, Engineering Faculty, Electrical and Electronic Engineering, 1996 - 1998

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 1993 - 1996

## Academic and Administrative Experience

Director of The Institution, Atilim University, Institute Of Science, 2017 - 2021

Head of Department, Atilim University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2002 - 2009

## Courses

Electronic Signal Intelligence (ELINT), Doctorate, 2022 - 2023  
Radar Signals and Systems, Postgraduate, 2022 - 2023  
Introduction to Radar Systems, Postgraduate, 2022 - 2023  
Engineering Design II, Undergraduate, 2021 - 2022  
Project Management, Undergraduate, 2021 - 2022  
Electronic Warfare Systems, Postgraduate, 2022 - 2023  
Engineering Design I, Undergraduate, 2021 - 2022  
Digital Signal Processing, Undergraduate, 2021 - 2022  
Radar Systems, Undergraduate, 2020 - 2021  
Communication Systems , Undergraduate, 2019 - 2020  
Wireless Communications, Undergraduate, 2018 - 2019  
Applications of Communications and Signal Processing, Postgraduate, 2016 - 2017  
Electronic Warfare Systems, Postgraduate, 2015 - 2016  
Radar Signal Processing, Postgraduate, 2013 - 2014  
Electronic Warfare, Postgraduate, 2011 - 2012

## Advising Theses

Kara A., Modeling and design of pre-equalization in visible light communication, Postgraduate, M.BOSTANOĞLU(Student), 2023  
Kara A., Yazılım Tanımlı Radyo ile bir Frekans Modülasyonlu Sürekli Dalga Radar Uygulaması, Postgraduate, C.ŞAHİN(Student), 2023  
Kara A., Dalveren Y., A study on microstrip antenna design for 77 GHz radar systems, Postgraduate, S.YILMAZ(Student), 2023  
Kara A., Zencir E., Design and development of application-specific RF proximity sensor, Doctorate, B.UD(Student), 2022  
Kara A., Aydın E., Radar cross section measurement of various objects with 77-81 GHz automotive radar and assessment of radar cross section simulation tools, Postgraduate, D.SEZGİN(Student), 2022  
Kara A., Aydın E., Optimal exclusion zone estimation for co-existence of geostationary and non-geostationary satellite networks, Doctorate, F.ÖZTÜRK(Student), 2022  
Kara A., Wi-Fi sinyalleri kullanılarak kablosuz cihazların derin öğrenme yöntemleri ile kimliklendirilmesine yönelik bir çalışma, Postgraduate, M.SEFA(Student), 2022  
Kara A., Dalveren Y., Deep learning-based vehicle classification under low-quality imaging conditions, Postgraduate, Ö.SARI(Student), 2022  
Kara A., DESIGN AND DEMONSTRATION OF LOW COST MODULAR FMCW RADAR FOR EDUCATIONAL PURPOSES, Postgraduate, I.OVAIS(Student), 2021  
Kara A., A Study On Performance Analysis Of Space Time Block Coding In Multiple Input Multiple Output Wireless Communication Systems, Postgraduate, K.DAW(Student), 2021  
Dalveren Y., Kara A., Use of wavelet decomposition in radio frequency fingerprinting of bluetooth signals, Postgraduate, H.AL(Student), 2021  
Kara A., Modeling and Measurement of Received Signal Variability over Populated Links in Indoor Channels at mmWaves, Postgraduate, M.MOSTAFA(Student), 2021  
Kara A., DEVELOPMENT AND PERFORMANCE ASSESSMENT OF SIGNAL DETECTION METHODS FOR TRANSIENT SIGNAL STARTS, Doctorate, I.SALEM(Student), 2021  
Lotfi B., Kara A., Modelling and optimization of harness design and cost analysis using software tools, Postgraduate, M.KEMAL(Student), 2021  
Kara A., Development of piezoelectric powered ultraviolet portable water cleaning system, Postgraduate, D.ERDEM(Student), 2020  
Kara A., Analysis of scattering centers over irregular terrain in emitter localization, Postgraduate, B.MAIGA(Student), 2020  
Kara A., Aydın E., An Experimental Study on Near Ground Radio Propagation at 900 MHZ, Postgraduate,

B.BİLGİÇ(Student), 2020

Kara A., Modeling and Measurement Of Multiple Human Body Shadowing at 28 GHz, Postgraduate, G.KARATAŞ(Student), 2020

Kara A., Performance analysis of higher order statistical features in classification of some modulation types, Postgraduate, R.BÜŞRA(Student), 2020

Kara A., Performance analysis of hierarchical classification of modulation types, Postgraduate, B.YALÇINKAYA(Student), 2020

Kara A., A practical time synchronization algorithm for linear wireless sensor networks including link-layer protocol implementation, Postgraduate, M.ABDULLAH(Student), 2020

Kara A., Distributed Denial of Service (DDoS) Attack Mitigation in Network Functions Virtualization (NFV) based 5G Networks, Postgraduate, S.KÖKSAL(Student), 2020

Kara A., Modeling and characterization of human body shadowing at millimeter waves, Doctorate, A.H.A.(Student), 2020

Kara A., Variational mode decomposition based radio frequency fingerprinting of bluetooth devices, Doctorate, A.AGHANAIYA(Student), 2019

Aydın E., Kara A., Design and implementation of high gain microstrip antennas for sub-GHz bands, Postgraduate, G.BİLGİN(Student), 2019

Kara A., Aydın E., Design and fabrication of miniaturized microstrip antennas at 900 MHz for industrial remote controllers, Postgraduate, V.SU(Student), 2019

Kara A., Assessment of features and classifiers for Bluetooth RF fingerprinting, Doctorate, A.B.(Student), 2019

Özbek M. E., Kara A., Implementation of Matched Filter for Radar Receiver on FPGA, Postgraduate, M.SALEM(Student), 2018

Kara A., An experimental study on time synchronization in linear spanning tree wireless sensor network, Postgraduate, A.ERPAY(Student), 2018

Kara A., Design and implementation of modular front end for RF fingerprinting of bluetooth signals, Postgraduate, E.UZUNDURUKAN(Student), 2018

Aydın E., Kara A., Design of small dual band slot antenna, Postgraduate, M.BUBRAIG(Student), 2017

Kara A., Analysis and quantization of range error of modular FMCW radar at C band, Postgraduate, M.Y.(Student), 2017

Kara A., Use of multipaths in passive localization of emitters, Doctorate, Y.DALVEREN(Student), 2016

Kara A., Indoor radio propagation studies in industrial environments, Postgraduate, Ş.TÜTÜNCÜ(Student), 2016

Kara A., Spectral analysis of parabolic range gate pull-off signals in digital radio frequency memory, Postgraduate, M.TALHA(Student), 2015

Kara A., Optimization of satellite transponder utilization based on simulation results, Postgraduate, O.ULUBEY(Student), 2015

At N., Kara A., New methods for radar emitter identification, Doctorate, K.GENÇOL(Student), 2015

Kara A., Signal and system level simulations on wideband intercept receivers, Postgraduate, İ.KARADEDE(Student), 2014

Kara A., Determination of scattering center of multipath signals using geometric optics and fresnel zone concepts, Postgraduate, K.YAVUZ(Student), 2013

Kara A., Towards real time implementation of specific emitter identification on pulse waveforms: Optimizations on a low cost commercial platform, Postgraduate, C.ERDEM(Student), 2012

Kara A., A study on identification of radar emitters, Postgraduate, A.MUSTAFA(Student), 2011

Kara A., Localization of emitters over and around sea surfaces, Postgraduate, Y.DALVEREN(Student), 2011

Kara A., Performance benchmarking of cellular network operators in Turkey, Postgraduate, R.KADIOĞLU(Student), 2010

Kara A., Development of an improved algorithm for multiple diffractions in urban radio propagation, Postgraduate, M.BARIŞ(Student), 2009

Kara A., Development of a wireless transmission module for Modbus applications, Postgraduate, O.TÜRKKAN(Student), 2008

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

### I. Real-Time Radar Classification Based on Software-Defined Radio Platforms: Enhancing Processing

## **Speed and Accuracy with Graphics Processing Unit Acceleration**

Oncu S., KARAKAYA M., Dalveren Y., KARA A., Derawi M.

Sensors, vol.24, no.23, 2024 (SCI-Expanded)

- II. **Comparative assessment and performance analysis of interference mitigation techniques for co-existent non-geostationary and geostationary satellites**  
Öztürk F., Aydın E., KARA A.  
International Journal of Communication Systems, vol.37, no.18, 2024 (SCI-Expanded)
- III. **Advancing mmWave Altimetry for Unmanned Aerial Systems: A Signal Processing Framework for Optimized Waveform Design**  
Awan M. A., Dalveren Y., KARA A., Derawi M.  
Drones, vol.8, no.9, 2024 (SCI-Expanded)
- IV. **Dynamic RCS Modeling and Aspect Angle Analysis for Highly Maneuverable UAVs**  
Sen K., Aksimsek S., KARA A.  
Aerospace, vol.11, no.9, 2024 (SCI-Expanded)
- V. **The Fast and Reliable Detection of Multiple Narrowband FH Signals: A Practical Framework**  
Aydın M., Dalveren Y., KARA A., Derawi M.  
Sensors, vol.24, no.15, 2024 (SCI-Expanded)
- VI. **A Differential and High-Sensitivity Thickness Measurement Sensor for Dielectric Solid Materials Using a Branch Line Coupler**  
Mohammadi P., Mohammadi A., KARA A.  
IEEE Sensors Journal, vol.24, no.10, pp.16077-16084, 2024 (SCI-Expanded)
- VII. **Hierarchical Classification of Analog and Digital Modulation Schemes Using Higher-Order Statistics and Support Vector Machines**  
Yalcinkaya B., Coruk R. B., KARA A., Tora H.  
Wireless Personal Communications, vol.136, no.2, pp.827-847, 2024 (SCI-Expanded)
- VIII. **A Radio Frequency Fingerprinting-Based Aircraft Identification Method Using ADS-B Transmissions**  
Gurer G., Dalveren Y., KARA A., Derawi M.  
Aerospace, vol.11, no.3, 2024 (SCI-Expanded)
- IX. **Towards mmWave Altimetry for UAS: Exploring the Potential of 77 GHz Automotive Radars**  
Awan M. A., Dalveren Y., KARA A., Derawi M.  
Drones, vol.8, no.3, 2024 (SCI-Expanded)
- X. **Solid materials characterization using split ring resonators enclosed by power divider**  
Mohammadi P., Mohammadi A., KARA A.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.66, no.2, 2024 (SCI-Expanded)
- XI. **Blockage loss and shadow fading behavior of millimeter-wave signals due to human bodies at 28 GHz**  
Benzaghta M., Gokdogan B. Y., Coruk R. B., KARA A.  
Microwave and Optical Technology Letters, vol.66, no.1, 2024 (SCI-Expanded)
- XII. **A Simplified Method Based on RSSI Fingerprinting for IoT Device Localization in Smart Cities**  
Dogan D., Dalveren Y., KARA A., Derawi M.  
IEEE Access, vol.12, pp.163752-163763, 2024 (SCI-Expanded)
- XIII. **Radar Emitter Localization Based on Multipath Exploitation Using Machine Learning**  
Catak F. O., Imran M. A. A., Dalveren Y., Yildiz B., KARA A.  
IEEE Access, vol.12, pp.163367-163381, 2024 (SCI-Expanded)
- XIV. **Convolutional Neural Network-Based Vehicle Classification in Low-Quality Imaging Conditions for Internet of Things Devices**  
Maiga B., Dalveren Y., Kara A., Derawi M.  
SUSTAINABILITY, no.23, 2023 (SCI-Expanded)
- XV. **Deployment and Implementation Aspects of Radio Frequency Fingerprinting in Cybersecurity of Smart Grids**  
Awan M. A., Dalveren Y., Catak F. O., Kara A.

- ELECTRONICS, vol.12, no.24, 2023 (SCI-Expanded)
- XVI. **Dual Frequency Microwave Resonator for Non-invasive detection of Aqueous Glucose**  
Mohammadi P., Mohammadi A., KARA A.  
IEEE Sensors Journal, vol.23, no.18, pp.21246-21253, 2023 (SCI-Expanded)
- XVII. **A Hybrid-Flipped Classroom Approach: Students' Perception and Performance Assessment Un enfoque de aula invertida híbrida: evaluación de la opinión y el rendimiento de los estudiantes**  
Gokdogan B. Y., Coruk R. B., Benzaghta M., Kara A.  
Ingenieria e Investigacion, vol.43, no.3, 2023 (SCI-Expanded)
- XVIII. **Modelling and Design of Pre-Equalizers for a Fully Operational Visible Light Communication System**  
Bostanoglu M., Dalveren Y., Catak F. O., KARA A.  
Sensors, vol.23, no.12, 2023 (SCI-Expanded)
- XIX. **Investigating the Impact of Two Major Programming Environments on the Accuracy of Deep Learning-Based Glioma Detection from MRI Images**  
Yilmaz V. S., Akdag M., Dalveren Y., Doruk R. O., KARA A., Soyly A.  
Diagnostics, vol.13, no.4, 2023 (SCI-Expanded)
- XX. **Modeling and measurement of human body blockage loss at 28 GHz**  
Benzaghta M., Gokdogan B. Y., Coruk R. B., Kara A.  
Journal of Electromagnetic Waves and Applications, vol.37, no.4, pp.538-548, 2023 (SCI-Expanded)
- XXI. **Enhanced Half-Mode SIW Loaded With Interdigital Capacitor for Permittivity Measurements**  
Mohammadi P., Mohammadi A., KARA A.  
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.72, 2023 (SCI-Expanded)
- XXII. **On the accuracy of an emitter localization method based on multipath exploitation in realistic scenarios**  
Al Imran M. A., Ank E., Dalveren Y., Tabakcioglu M. B., Kara A.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.36, no.15, pp.2178-2197, 2022 (SCI-Expanded)
- XXIII. **On the Classification of Modulation Schemes Using Higher Order Statistics and Support Vector Machines**  
Coruk R. B., Gokdogan B. Y., Benzaghta M., KARA A.  
WIRELESS PERSONAL COMMUNICATIONS, vol.126, no.2, pp.1363-1381, 2022 (SCI-Expanded)
- XXIV. **Deep Learning-Based Vehicle Classification for Low Quality Images**  
Tas S., Sari O., Dalveren Y., Pazar S., KARA A., Derawi M.  
SENSORS, vol.22, no.13, 2022 (SCI-Expanded)
- XXV. **Reliability of linear WSNs: A complementary overview and analysis of impact of cascaded failures on network lifetime**  
Carsanckli M. F., Imran M. A. A., YILDIZ H. U., KARA A., TAVLI B.  
AD HOC NETWORKS, vol.131, 2022 (SCI-Expanded)
- XXVI. **Exclusion zone minimization and optimal operational mode selection for co-existent geostationary and non-geostationary satellites**  
Öztürk F., KARA A.  
International Journal of Satellite Communications and Networking, vol.40, no.3, pp.191-203, 2022 (SCI-Expanded)
- XXVII. **A study on the performance evaluation of wavelet decomposition in transient-based radio frequency fingerprinting of Bluetooth devices**  
Almashaqbeh H., Dalveren Y., KARA A.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.64, no.4, pp.643-649, 2022 (SCI-Expanded)
- XXVIII. **T-Junction Loaded With Interdigital Capacitor for Differential Measurement of Permittivity**  
Mohammadi P., Mohammadi A., KARA A.  
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.71, 2022 (SCI-Expanded)
- XXIX. **On the Performance of Energy Criterion Method in Wi-Fi Transient Signal Detection**  
Mohamed I., Dalveren Y., Catak F. O., KARA A.  
ELECTRONICS, vol.11, no.2, 2022 (SCI-Expanded)
- XXX. **A case study on the assessment of RF switch and splitter options for coupling of transceiver**

**modules to bidirectional antennas employed in linear wireless sensor networks**

Dalveren Y., Durukan A. M., KARA A.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.63, pp.2826-2832, 2021 (SCI-Expanded)

- XXXI. **Dual band, Miniaturized Permittivity Measurement Sensor with Negative-Order SIW Resonator**  
Mohammadi P., Teimouri H., Mohammadi A., DEMİR Ş., KARA A.  
IEEE Sensors Journal, vol.21, pp.22695-22702, 2021 (SCI-Expanded)
- XXXII. **Compact Size, and Highly Sensitive, Microwave Sensor for Non-Invasive Measurement of Blood Glucose Level**  
Mohammadi P., Mohammadia A., DEMİR Ş., KARA A.  
IEEE SENSORS JOURNAL, vol.21, no.14, pp.16033-16042, 2021 (SCI-Expanded)
- XXXIII. **Distributed denial-of-service attack mitigation in network functions virtualization-based 5G networks using management and orchestration**  
Köksal S., Dalveren Y., Maiga B., Kara A.  
International Journal of Communication Systems, vol.34, 2021 (SCI-Expanded)
- XXXIV. **Design and optimization of piezoelectric-powered portable UV-led water disinfection system**  
Şala D. E., Dalveren Y., Kara A., Derawi M.  
Applied Sciences (Switzerland), vol.11, no.7, 2021 (SCI-Expanded)
- XXXV. **A Simple Propagation Model to Characterize the Effects of Multiple Human Bodies Blocking Indoor Short-Range Links at 28 GHz**  
Dalveren Y., Karatas G., Derawi M., Kara A.  
ELECTRONICS, vol.10, no.3, 2021 (SCI-Expanded)
- XXXVI. **Opportunities and challenges in RCS measurement of 9-mm bullet model with 77 GHz mmwave COTS radar systems**  
Ahmed B., Kara A., Zencir E., Benzaghta M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.62, no.12, pp.3772-3778, 2020 (SCI-Expanded)
- XXXVII. **On the design and effectiveness of Simulink-based educational material for a communication systems course**  
Coruk R. B., Yalcinkaya B., Kara A.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.28, no.6, pp.1641-1651, 2020 (SCI-Expanded)
- XXXVIII. **Optimal operation mode selection for energy-efficient light-weight multi-hop time synchronization in linear wireless sensor networks**  
Al Imran M. A., Dalveren Y., Tavli B., Kara A.  
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, vol.2020, no.1, 2020 (SCI-Expanded)
- XXXIX. **Performance Analysis of Modular RF Front End for RF Fingerprinting of Bluetooth Devices**  
Uzundurukan E., Ali A. M., Dalveren Y., Kara A.  
WIRELESS PERSONAL COMMUNICATIONS, vol.112, no.4, pp.2519-2531, 2020 (SCI-Expanded)
- XL. **On the Performance of Variational Mode Decomposition-Based Radio Frequency Fingerprinting of Bluetooth Devices**  
Aghnaiya A., Dalveren Y., Kara A.  
SENSORS, vol.20, no.6, 2020 (SCI-Expanded)
- XLI. **Performance Assessment of Transient Signal Detection Methods and Superiority of Energy Criterion (EC) Method**  
Mohamed I. S., Dalveren Y., Kara A.  
IEEE ACCESS, vol.8, pp.115613-115620, 2020 (SCI-Expanded)
- XLII. **Variational Mode Decomposition-Based Threat Classification for Fiber Optic Distributed Acoustic Sensing**  
Abufana S. A., Dalveren Y., Aghnaiya A., Kara A.  
IEEE ACCESS, vol.8, pp.100152-100158, 2020 (SCI-Expanded)
- XLIII. **Miniaturised antenna at a sub-GHz band for industrial remote controllers**  
Yilmaz V. S., Bilgin G., Aydin E., Kara A.  
IET MICROWAVES ANTENNAS & PROPAGATION, vol.13, no.9, pp.1408-1413, 2019 (SCI-Expanded)

- XLIV. **A flipped classroom in communication systems: Student perception and performance assessments**  
Oncel A. F., Kara A.  
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, vol.56, no.3, pp.208-221, 2019 (SCI-Expanded)
- XLV. **Multipath Exploitation in Emitter Localization for Irregular Terrains**  
Dalveren Y., Kara A.  
RADIOENGINEERING, vol.28, no.2, pp.473-482, 2019 (SCI-Expanded)
- XLVI. **Comparative assessment of electromagnetic simulation tools for use in microstrip antenna design: Experimental demonstrations**  
Bilgin G., Yilmaz V. S., Kara A., Aydin E.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.61, no.2, pp.349-356, 2019 (SCI-Expanded)
- XLVII. **Variational Mode Decomposition-Based Radio Frequency Fingerprinting of Bluetooth Devices**  
Aghnaiya A., Ali A. M., Kara A.  
IEEE ACCESS, vol.7, pp.144054-144058, 2019 (SCI-Expanded)
- XLVIII. **A Simplified Model for Characterizing the Effects of Scattering Objects and Human Body Blocking Indoor Links at 28 GHz**  
Dalveren Y., Alabish A. H., Kara A.  
IEEE ACCESS, vol.7, pp.69687-69691, 2019 (SCI-Expanded)
- XLIX. **Assessment of Features and Classifiers for Bluetooth RF Fingerprinting**  
Ali A. M., Uzundurukan E., Kara A.  
IEEE ACCESS, vol.7, pp.50524-50535, 2019 (SCI-Expanded)
- L. **Improvements on deinterleaving of radar pulses in dynamically varying signal environments**  
Gencol K., Kara A., At N.  
DIGITAL SIGNAL PROCESSING, vol.69, pp.86-93, 2017 (SCI-Expanded)
- LI. **A wavelet-based feature set for recognizing pulse repetition interval modulation patterns**  
Gencol K., At N., Kara A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.4, pp.3078-3090, 2016 (SCI-Expanded)
- LII. **Quality of service assessment: a case study on performance benchmarking of cellular network operators in Turkey**  
Kadioglu R., Dalveren Y., Kara A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.2, pp.548-559, 2015 (SCI-Expanded)
- LIII. **Heterogeneity in Classes: Cooperative Problem-Solving Activities through Cooperative Learning**  
Cigdemoglu C., Kapusuz K. Y., Kara A.  
Croatian Journal of Education-Hrvatski Casopis za Odgoj i obrazovanje, vol.16, no.4, pp.999-1029, 2014 (SSCI)
- LIV. **An Enhanced Course in Digital Communications**  
Kara A., Cagiltay N. E., Dalveren Y.  
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.30, no.4, pp.1048-1059, 2014 (SCI-Expanded)
- LV. **Seven Principles of Instructional Content Design for a Remote Laboratory: A Case Study on ERRL**  
Cagiltay N. E., Aydin E., Aydin C. C., Kara A., Alexandru M.  
IEEE TRANSACTIONS ON EDUCATION, vol.54, no.2, pp.320-327, 2011 (SCI-Expanded)
- LVI. **Improvements on Slope Diffraction for Multiple Wedges**  
Tabakcioglu M. B., Kara A.  
ELECTROMAGNETICS, vol.30, no.3, pp.285-296, 2010 (SCI-Expanded)
- LVII. **Requirements for Remote RF Laboratory Applications: An Educators' Perspective**  
Cagiltay N. E., Aydin E., Oktem R., Kara A., Alexandru M., Reiner B.  
IEEE TRANSACTIONS ON EDUCATION, vol.52, no.1, pp.75-81, 2009 (SCI-Expanded)
- LVIII. **Human body shadowing variability in short-range indoor radio links at 3-11 GHz band**  
Kara A.  
INTERNATIONAL JOURNAL OF ELECTRONICS, vol.96, no.2, pp.205-211, 2009 (SCI-Expanded)



- LIX. **Comparison of Improved Slope Uniform Theory of Diffraction with Some Geometrical Optic and Physical Optic Methods for Multiple Building Diffractions**  
Tabakcioglu M. B., Kara A.  
ELECTROMAGNETICS, vol.29, no.4, pp.303-320, 2009 (SCI-Expanded)
- LX. **Remote RF laboratory requirements: Engineers' and technicians' perspective**  
Cagiltay N. E., Aydin E. U., Kara A.  
Turkish Online Journal of Distance Education, vol.8, no.4, pp.80-95, 2007 (SCI-Expanded)
- LXI. **Effect of people moving near short-range indoor propagation links at 2.45 GHz**  
Kara A., Bertoni H. L.  
JOURNAL OF COMMUNICATIONS AND NETWORKS, vol.8, no.3, pp.286-289, 2006 (SCI-Expanded)
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Kara A., EU Supported Other Project, Physical layer security for trustworthy and resilient 6G systems (6G-PHYSEC) [COST], 2023 - 2027

Kara A., EU Supported Other Project, Behavioral Next Generation in Wireless Networks for Cyber Security (BEiNG-WISE) [COST], 2023 - 2027

Kara A., Ergün Yardım F., Akşahin M. F., TÜBİTAK International Bilateral Joint Cooperation Program Project, Compact Size and Highly Sensitive Non-Invasive Radio-Frequency (RF) Sensor for Blood Glucose Level (BGL) Monitoring, 2023 - 2025

Kaynar M. B., Kara A., TUBITAK Project, Radar Kesit Alanı Düşürücü Hafifletilmiş Örtülerin Geliştirilmesi, 2021 - 2023

Toruner S., Kara A., TUBITAK Project, Görev Yükü Kısıtı Olan İnsansız Hava Araçları (İHA) İle Otomotiv Radarları Kullanılarak Nesne Tespit ve Teşhisine Yönelik Algoritmik Geliştirmeler, 2021 - 2022

Kara A., Technopark, Radar Soğurucu Malzemelerin 8-18 GHz Bandında Yansıtma ve Geçirgenlik Ölçümleri için Düşük

Maliyetli Ölçüm Sistemi, 2021 - 2022

Dalveren Y., Kara A., TUBITAK Project, Yansımaları Kullanarak Emisyon Kaynaklarının Yer Tespiti, 2019 - 2021

Kara A., TUBITAK Project, Kritik Tesisleri Korozyona Karşı Korumaya Yönelik Kablosuz Algılayıcı Ağ Tabanlı Kontrol ve İzleme Sisteminin Geliştirilmesi, 2018 - 2020

Aydın E., Kara A., TUBITAK Project, GHz altı ISM bantlarında çalışan, ortama uyarlı, çift bantlı operasyon kabiliyeti olan minyatürize anten tasarımı ve üretimi, 2017 - 2018

Tütüncü Ş., Kara A., TUBITAK Project, Kullanıcı Tarafından Yapılandırılabilir Radyo Haberleşme, Kontrol Sistemi ve Bileşenlerinin Tasarımı, Geliştirilmesi, 2015 - 2016

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Kara A., EU Supported Other Project, European Remote Radio Laboratory, 2006 - 2008

Kara A., TUBITAK Project, Eğitim Kırınımı ve Dışbükey Zarf Tekniğine Dayalı Radyo Yayılım Modeli, 2006 - 2008

Bertoni H. L., Kara A., Industrial Organizations of Other Countries Supported Project, Interference Evaluation between WLAN and Bluetooth, 1999 - 2000

## Patent

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Kara A., Yansımalar kullanılarak emisyon kaynaklarının konumlandırılması yöntemi, Patent, CHAPTER H Electricity, The Invention Registration Number: TR 2014 15961 A2 , Standard Registration, 2019

Kara A., Radar Emitörlerinin Pasif Konumlandırılmasında Çok Yollu Saçılmaların Yol Kayıpları Üzerinden Kullanımı ile Doğruluğun Arttırılması, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2017/19517 , Standard Registration, 2017

## Memberships / Tasks in Scientific Organizations

IEEE, Member, 1993 - 2023, United States Of America

## Scientific Refereeing

JOURNAL OF MARINE SCIENCE AND ENGINEERING, SCI Journal, December 2023

DIGITAL SIGNAL PROCESSING: A REVIEW JOURNAL, SCI Journal, December 2023

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SYMMETRY, SCI Journal, August 2022  
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IEEE ACCESS, SCI Journal, July 2022  
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, SCI Journal, June 2022  
IEEE COMMUNICATIONS LETTERS, SCI Journal, March 2022  
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, Journal Indexed in SCI-E, May 2021  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, Journal Indexed in SCI-E, April 2021  
IEEE COMPUTATIONAL INTELLIGENCE MAGAZINE, Journal Indexed in SCI-E, March 2021  
CHINA COMMUNICATIONS, Journal Indexed in SCI-E, March 2021  
PHYSICAL COMMUNICATION, Journal Indexed in SCI-E, February 2021

## **Metrics**

Publication: 118  
Citation (WoS): 610  
Citation (Scopus): 940  
H-Index (WoS): 17  
H-Index (Scopus): 19

## **Congress and Symposium Activities**

4th IFSA Winter Conference on Automation, Robotics & Communications for Industry 4.0 / 5.0 , Session Moderator,  
Innsbruck, Austria, 2024

## **Invited Talks**

A Physical Layer Security Method in Wireless Networks: RF Fingerprinting (RFF), Conference, Universitas Negeri  
Surabaya, Indonesia, December 2020  
Students' Perception towards Transition to New Teaching Approaches in Engineering Education: Quantitative and  
Qualitative Discussion, Conference, 3rd International Conference on Electrical and Electronics Engineering, Turkey, April  
2016

## **Non Academic Experience**

University, Alparslan Defence Sciences Institute, Radar and Electronic Warfare  
University, Turkish Air Force Academy, Radar and Electronic Warfare (Graduate Program)