

Prof. ALİ KARA

Personal Information

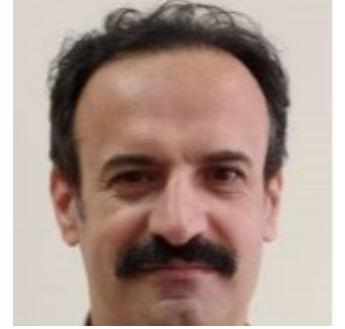
Office Phone: [+90 312 582 3347](tel:+903125823347)

Fax Phone: [+90 312 230 8434](tel:+903122308434)

Email: akara@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/akara>

Address: Gazi Üniversitesi Mühendislik Fakültesi Elektrik-Elektronik Mühendisliği Bölümü
Eti Mh. Yükseliş Sk. No: 5 Kat: 3 06570 Maltepe/ANKARA



Education Information

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

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. degree in Electrical and Electronics Engineering from [Hacettepe University](#), Ankara, 2002. He was with [Polytechnic University](#) (New York University, Brooklyn, NY), between 1999 and 2000, as a research assistant/scholar in an industry sponsored project ([Symbol Technologies/Motorola](#)). He joined the [Department of Electrical and Electronics Engineering of Atılım University](#), in 2000 and worked until 2021, where he held various positions ranging from lecturer to full professor levels. Lastly, he was the [Director of Graduate School of Natural and Applied Sciences](#) at Atılım University. He was also consultant and chief researcher (part time) at [TUBITAK BILGEM](#), between 2006 and 2012, where he contributed to some nationwide defense and security projects. Since then, he has been actively involved with many state and industry-funded projects.

Ali Kara has published extensively in journals, mostly with his graduate students, and has presented research outcomes in relevant conferences. On the other hand, he has led many research projects in the areas of electromagnetics, wireless communications, radar & electronic warfare systems as well as engineering education. In one of the projects, he led a team of researchers, from various universities all over Europe, to develop a Virtual and Remote Laboratory (VRL) platform (ERRL-European Remote Radio Laboratory was unique platform at the time, and was fully funded by the European Commission). He has five patents.

His research interests lie in broad range of areas including wireless communications, electromagnetics, radar and electronic warfare, data-driven techniques in engineering, and engineering education. Recently, he has given special emphasis on the use of artificial intelligence (ML/DL) for solving problems in those areas.

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

[6G Platform \(Turkey\)](#)

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, Signal Processing for Communication, Hardware Security, Artificial Intelligence, Computer Learning and Pattern Recognition, 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 Dumlupınar 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

EE Engineering Design I, Undergraduate, 2021 - 2022

Digital Signal Processing, Undergraduate, 2021 - 2022

Radar Systems, Undergraduate, 2020 - 2021

Probability and Random Processes, 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

Advising Theses

- Kara A., Modeling and Measurement of Received Signal Variability over Populated Links in Indoor Channels at mmWaves, Postgraduate, M.MOSTAFA(Student), 2021
- 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
- Kara A., DEVELOPMENT AND PERFORMANCE ASSESSMENT OF SIGNAL DETECTION METHODS FOR TRANSIENT SIGNAL STARTS, Doctorate, I.SALEM(Student), 2021
- Kara A., Performance analysis of higher order statistical features in classification of some modulation types, Postgraduate, R.BÜŞRA(Student), 2020
- Kara A., Aydın E., An Experimental Study on Near Ground Radio Propagation at 900 MHZ, Postgraduate, B.BİLGİÇ(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., Development of piezoelectric powered ultraviolet portable water cleaning system, Postgraduate, D.ERDEM(Student), 2020
- Kara A., Modeling and characterization of human body shadowing at millimeter waves, Doctorate, A.H.A.(Student), 2020
- Kara A., Modeling and Measurement Of Multiple Human Body Shadowing at 28 GHz, Postgraduate, G.KARATAŞ(Student), 2020
- Kara A., Analysis of scattering centers over irregular terrain in emitter localization, Postgraduate, B.MAIGA(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., Variational mode decomposition based radio frequency fingerprinting of bluetooth devices, Doctorate, A.AGHANAIYA(Student), 2019
- Kara A., Assessment of features and classifiers for Bluetooth RF fingerprinting, Doctorate, A.B.(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., Design and implementation of modular front end for RF fingerprinting of bluetooth signals, Postgraduate, E.UZUNDURUKAN(Student), 2018
- 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., Analysis and quantization of range error of modular FMCW radar at C band, Postgraduate, M.Y.(Student), 2017
- Aydın E., Kara A., Design of small dual band slot antenna, Postgraduate, M.BUBRAIG(Student), 2017
- Kara A., Indoor radio propagation studies in industrial environments, Postgraduate, Ş.TÜTÜNCÜ(Student), 2016
- Kara A., Use of multipaths in passive localization of emitters, Doctorate, Y.DALVEREN(Student), 2016
- Kara A., Optimization of satellite transponder utilization based on simulation results, Postgraduate, O.ULUBEY(Student), 2015
- Kara A., Spectral analysis of parabolic range gate pull-off signals in digital radio frequency memory, Postgraduate, M.TALHA(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., Localization of emitters over and around sea surfaces, Postgraduate, Y.DALVEREN(Student), 2011

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

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

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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, 2021 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)

- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **Multipath Exploitation in Emitter Localization for Irregular Terrains**
Dalveren Y., Kara A.
RADIOENGINEERING, vol.28, no.2, pp.473-482, 2019 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **Assessment of Features and Classifiers for Bluetooth RF Fingerprinting**
Ali A. M. , Uzundurukan E., Kara A.
IEEE ACCESS, vol.7, pp.50524-50535, 2019 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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
 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SSCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **Improvements on Slope Diffraction for Multiple Wedges**
 Tabakcioglu M. B., Kara A.
 ELECTROMAGNETICS, vol.30, no.3, pp.285-296, 2010 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI Expanded)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **Scattering of plane waves at the junction of two corrugated half-planes**
 SERBEST A., Kara A., Lueneburg E.
 ELECTROMAGNETICS, vol.25, no.1, pp.21-38, 2005 (Journal Indexed in SCI)
- XXXV. **Limit and application range of the slope-diffraction method for wireless communications**
 Kara A., Bertoni H., Yazgan E.
 IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.51, no.9, pp.2512-2514, 2003 (Journal Indexed in SCI)
- XXXVI. **Roof shape modelling for multiple diffraction loss in cellular mobile communication systems**
 Kara A., Yazgan E.
 INTERNATIONAL JOURNAL OF ELECTRONICS, vol.89, no.10, pp.753-758, 2002 (Journal Indexed in SCI)
- XXXVII. **Diffraction coefficient for a half-plane with anisotropic conductivity**
 Buyukaksoy A., SERBEST A., Kara A.
 IEE PROCEEDINGS-SCIENCE MEASUREMENT AND TECHNOLOGY, vol.143, no.6, pp.384-388, 1996 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Deep Learning Based Threat Classification for Fiber Optic Distributed Acoustic Sensing Using SNR Dependent Data Generation**
UZUNDURUKAN E., KARA A.
Journal of Scientific, Technology and Engineering Research, 2020 (Refereed Journals of Other Institutions)
- II. **A Database for the Radio Frequency Fingerprinting of Bluetooth Devices**
Uzundurukan E., Dalveren Y., Kara A.
DATA, vol.5, no.2, 2020 (Journal Indexed in ESCI)
- III. **Design and Development of an Android Accessory**
Fatma Cemile S., Ahmet E., Kara A.
International Journal of Electronics and Electrical Engineering, no.5, 2015 (Refereed Journals of Other Institutions)
- IV. **Determination of scattering center of multipath signals using geometric optics and Fresnel zone concepts**
Kamil Yavuz K., Kara A.
Engineering Science and Technology, an International Journal, no.17, 2014 (Refereed Journals of Other Institutions)
- V. **On the Design of Elective Courses in RF and Communications According to the Needs of Industry**
DALVEREN Y., KARA A.
Procedia - Social and Behavioral Sciences, no.46, 2012 (Refereed Journals of Other Institutions)
- VI. **Remote Laboratory Development as an Action Research A Case Study**
ÇAĞILTAY N., KARA A., AYDIN E., TOKDEMİR G.
Scientific Essays, no.7, 2012 (Refereed Journals of Other Institutions)
- VII. **Maintenance Sustainability and Extendibility in Virtual and Remote Laboratories**
KARA A., ÇAĞILTAY N., AYDIN E., ÖZBEK M. E.
Procedia Social and Behavioral Sciences,, no.28, 2011 (Refereed Journals of Other Institutions)
- VIII. **Modelling of shadowing loss due to huge non-polygonal structures in urban radio propagation**
Kara A., Yazgan E.
Progress In Electromagnetics Research B, vol.6, pp.123-134, 2008 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Antenna Theory Analysis and Design Editör Çevirmen**
ÇAĞLAR M. F. , AYDIN E., KARA A.
Nobel Yayınevi, 2013
- II. **Communications, RF and Microwaves Fundamentals: From Theory to Remote Experimentation**
Alexandru M., Kara A., Aydın E., Yapıcı A. Ç.
Transilvania University of Brasov Publishing House, Brasov, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **An Experimental Study on the Influence of Human Movement in Indoor Radio Channel at 28GHz**
Benzaghta M., Coruk R. B. , Yalcinkaya B., KARA A.
2021 IEEE International Black Sea Conference on Communications and Networking, BlackSeaCom 2021, Virtual, Bucharest, Romania, 24 - 28 May 2021
- II. **Kapsama Alanı Benzetimlerine Yönelik Işın İzleme Algoritmalarının Hesaplama Performansları**
Arık E., Tabakcioğlu M. B. , Kara A.
International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 22 February 2021
- III. **Miniaturized 2.4 GHz Antenna Design for UAV communication link**
Yılmaz V. S. , Kara A., Aydın E.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October

2020

- IV. **Linear Wireless Sensor Networks for Cathodic Protection Monitoring of Pipelines**
Kara A., Al Imran M. A. , Karadag K.
2019 International Conference on Mechatronics, Robotics and Systems Engineering, MoRSE 2019, Bali, Indonesia, 4 - 06 December 2019, pp.233-236
- V. **Analysis of measurement instrumentation delay in modular experimental radar at C band**
Abdulrazigh M. Y. A. , Uzundurukan E., Kara A.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VI. **An Experimental Study towards Examining Human Body Movements in Indoor Wave Propagation at 18 - 22 GHz**
DALVEREN Y., KARA A.
IEEE International Symposium on Networks, Computers and Communications (ISNCC'2018), 10 - 14 June 2018
- VII. **On the Accuracy of TDOA-based Passive Localization of Emitters", 5th International Symposium on Engineering**
DALVEREN Y., KARA A.
Artificial Intelligence and Applications (ISEAIA 2017), 30 October - 03 November 2017
- VIII. **An Approach for Identifying the Likelihood of an Irregular Terrain Profile Being a Multipath Scattering Center in Emitter Localization**
DALVEREN Y., KARA A.
ACM 7th International Conference on Information Communication and Management (ICICM 2017), 6 - 11 August 2017
- IX. **Design Considerations for Near to the Ground Communication System and Associated Sub-GHz Low Profile Antenna**
Yilmaz V. S. , Bilgin G., Aydin E., Kara A.
24th IEEE International Conference on Electronics, Circuits and Systems (ICECS), Batumi, Georgia, 5 - 08 December 2017, pp.120-123
- X. **Design of Low-Cost Modular RF Front End for RF Fingerprinting of Bluetooth Signals**
Uzundurukan E., Ali A. M. , Kara A.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XI. **Improvements on Transient Signal Detection for RF Fingerprinting**
Ali A. M. , Uzundurukan E., Kara A.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XII. **Comparative Analysis of TDOA-based Localization Methods in the Presence of Sensor Position Errors**
Dalveren Y., Kara A.
4th International Conference on Control, Decision and Information Technologies (CoDIT), Barcelona, Spain, 5 - 07 April 2017, pp.556-560
- XIII. **Design Considerations For Sub-GHz Multilayer Microstrip Antenna For Near Ground Communication Links In Rural Areas**
Bilgin G., Yilmaz V. S. , Aydin E., Kara A.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.661-665
- XIV. **A Low Cost Smartphone Controlled Wireless Data Logger System for Monitoring of Safety Critical Areas**
DALVEREN Y., KARA A.
3rd International Conference on Advanced Technology Sciences (ICAT'xx16), 1 - 04 October 2016
- XV. **UHF Propagation Measurements in Heavy Industry**
Tutuncu S., Kara A.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.541-544

- XVI. Spectrum Analysis of Parabolic Range Gate Pull-Off (RGPO) Signals**
Ozturk M. T. , Dalveren Y., Kara A.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1026-1029
- XVII. Characterization of Satellite Transponder Impairments Based on Simulations with Test Data**
Ulubey O., Gulgonul S., Kara A.
7th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 16 - 19 June 2015, pp.373-378
- XVIII. New wavelet-based features for the recognition of jittered and stagger PRI modulation types**
Gencol K., Kara A., At N.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2134-2137
- XIX. A MODULAR FMCW RADAR RF FRONT END DESIGN:SIMULATION AND IMPLEMENTATION**
Dagdeviren B., Kapsuz K. Y. , Kara A.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1762-1765
- XX. An Industry Sponsored Undergraduate Research (UR) Experience: Preliminary Study on Fulfillment of Program Outcomes and Industry Requirements**
Kapsuz K. Y. , Kara A.
IEEE Global Engineering Education Conference, İstanbul, Turkey, 3 - 05 April 2014, pp.306-311
- XXI. Development of a low cost radio controller for Tele operation systems: Crane controller design as an industry sponsored undergraduate research**
Kaynaköz G., Dağdeviren B., Kapsuz K. Y. , Kara A.
20th Annual International Conference on Mechatronics and Machine Vision in Practice, M2VIP 2013, Ankara, Turkey, 20 September 2013, pp.40-45
- XXII. Design of a Scenario-Based Synthetic Mixed Pulse Generator**
Gencol K., Kara A., At N.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XXIII. On the design of elective courses in rf and communications according to the needs of industry**
Dalveren Y., Kara A.
4th World Conference on Educational Sciences (WCES), Barcelona, Spain, 2 - 05 February 2012, vol.46, pp.1547-1551
- XXIV. Signal and System Level Simulations for Wideband Intercept Receivers: Eliminating Spur Signals**
Karadede I., Kara A.
9th International Conference on Electronics Computer and Computation (ICECCO 2012), Ankara, Turkey, 1 - 03 November 2012, pp.215-219
- XXV. Development of a digital communications course enriched by virtual and remote laboratory tools**
Kara A., Cagiltay N., Dalveren Y.
2011 International Conference on Information Technology Based Higher Education and Training, ITHET 2011, Kusadasi, Turkey, 4 - 06 August 2011
- XXVI. Maintenance, sustainability and extendibility in virtual and remote laboratories**
Kara A., Ozbek M. E. , Cagiltay N. E. , Aydin E.
World Conference on Educational Technology Researches (WCETR), Nicosia, CYPRUS, 5 - 09 July 2011, vol.28
- XXVII. Principles for the design of a remote laboratory: A case study on ERRL**
Cagiltay N. E. , Aydin E., Kara A.
2010 IEEE Education Engineering Conference, EDUCON 2010, Madrid, Spain, 14 - 16 April 2010, pp.879-884
- XXVIII. Design and development of a remote and virtual environment for experimental training in electrical and electronics engineering**
Kara A., Aydin E., Ozbek M. E. , Cagiltay N.
2010 9th International Conference on Information Technology Based Higher Education and Training, ITHET 2010, Cappadocia, Turkey, 29 April - 01 May 2010, pp.194-200

- XXIX. **Software technologies, architectures and interoperability in remote laboratories**
Özbek M. E. , Kara A., Ataş M.
2010 9th International Conference on Information Technology Based Higher Education and Training, ITHET 2010, Cappadocia, Turkey, 29 April - 01 May 2010, pp.402-406
- XXX. **A Study for Development of Propagation Model Based on Ray Tracing for Coverage Prediction in Terrestrial Broadcasting Systems**
Tabakcioglu M. B. , Ozmen A., Kara A.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.431-432
- XXXI. **A New Approach to Threat Tracking on ESM Systems by Using Kalman Filters**
Celebi M. B. , Kara A., Akar B., Tumay A., Dincer K.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.435-438
- XXXII. **Distance laboratory applications ERRL: A study on radio communication in electronic field**
Aydin C., Türkmen G., Özyurt E., Aydm E., Çağiltay N., Özbek M., Ceren Alparslan N., Kara A.
11th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2008, Brasov, Romania, 22 - 24 May 2008, pp.157-162
- XXXIII. **On the improvements in multiple edge transition zone diffraction**
Tabakcioglu M., Kara A.
2nd European Conference on Antennas and Propagation, EuCAP 2007, Edinburgh, England, 11 - 16 November 2007, vol.2007
- XXXIV. **A remote laboratory for training in radio communications: ERRL**
Kara A., Aydin E. U. , Oektem R., Cagiltay N.
18th IEEE International Symposium on Personal, Indoor and Mobile Radio Communication, Athens, Greece, 3 - 07 September 2007, pp.4275-4276
- XXXV. **Pilot remote experiment in the ERRL: Measurement of scattering parameters**
Oezen M., Aydin E. U. , Kara A.
18th IEEE International Symposium on Personal, Indoor and Mobile Radio Communication, Athens, Greece, 3 - 07 September 2007, pp.3827-3830
- XXXVI. **Measurement of local environmental effects in UWB channels**
Vural M. D. , Yildiz M., Kara A.
European Conference on Antennas and Propagation: EuCAP 2006, Nice, France, 6 - 10 November 2006
- XXXVII. **Blockage/shadowing and polarization measurements at 2.45GHz for interference evaluation between Bluetooth and IEEE 802.11 WLAN**
Kara A., Bertoni H.
2001 IEEE Antennas and Propagation Society International Symposium -FDTD and Multi-Resolution Methods-, Boston, MA, United States Of America, 8 - 13 July 2001, vol.3, pp.376-379

Supported Projects

- Kaynar M. B. , Kara A., TUBITAK Project, Radar Kesit Alanı Düşürücü Hafifletilmiş Örtülerin Geliştirilmesi, 2021 - 2023
- 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
- Aydin 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
- Kara A., Project Supported by Other Private Institutions, Design and Fabrication of Band Pass Filters at X and Ka Bands, 2014 - 2015

Kara A., Project Supported by Higher Education Institutions, Heterojen Sınıflarda İşbirlikçi Problem Çözme Stratejileri, 2013 - 2015
Kara A., Project Supported by Other Official Institutions, Development of Effective Pulse De interleaving and Emitter Identification Techniques for ESM Systems, 2008 - 2009
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

Kara A., Mikroşerit teknolojisi ile yüksek hassasiyetli noninvaziv kan şekeri ölçüm sensörü ve sistemi, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2021/014976 , Initial Registration, 2021
Kara A., Yansımalar kullanılarak emisyon kaynaklarının konumlandırılmasında doğruluğun artırılması, Patent, CHAPTER H Electricity, The Invention Registration Number: TR 2016 18856 A2 , Initial Registration, 2021
Kara A., Yansımalar kullanılarak emisyon kaynaklarının konumlandırılması yöntemi, Patent, CHAPTER H Electricity, The Invention Registration Number: TR 2014 15961 A2 , Initial 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 , Initial Registration, 2017
Kara A., ISM Bandında Çok banthlı Alıcı Verici Modül Tasarımı, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2015/17525 , Initial Registration, 2015

Activities in Scientific Journals

Turkish Journal Of Electrical Engineering And Computer Sciences, Advisory Committee Member, 2018 - Continues

Memberships / Tasks in Scientific Organizations

IEEE Senior Member, Member, 1993 - Continues, United States Of America

Scientific Refereeing

IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, SCI Journal, November 2021
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, SCI Journal, September 2021
IEEE ACCESS, SCI Journal, July 2021
PHYSICAL COMMUNICATION, SCI Journal, June 2021
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, SCI Journal, June 2021
IEEE TRANSACTIONS ON SIGNAL PROCESSING, SCI Journal, June 2021
CHINA COMMUNICATIONS, SCI Journal, May 2021
IEEE COMPUTATIONAL INTELLIGENCE MAGAZINE, SCI Journal, May 2021
SIGNAL IMAGE AND VIDEO PROCESSING, SCI Journal, May 2021
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, SCI Journal, April 2021
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, SCI Journal, April 2021

Edit Congress and Symposium Activities

2021 28th Signal Processing and Communications Applications Conference (SIU), Attendee, İstanbul, Turkey, 2021

Citations

Total Citations (WOS):277

h-index (WOS):11

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)

TUBITAK, TUBITAK BILGEM, ILTAREN