

Yaser Dalveren, Ph.D.
Associate Professor of Electrical and Electronics Engineering
Atilim University
06830 Incek, Golbasi, Ankara/TURKEY
yaser.dalveren@atilim.edu.tr
Tel: +903125868320

PERSONAL

Date of Birth	1985
Place of Birth	Ankara/Turkey

EDUCATION

2011-2016	Atilim University, Modeling and Design of Engineering Systems (Main Field of Study: Electrical and Electronics Engineering), Ph.D.
2009-2011	Atilim University, Electrical and Electronics Engineering, M.S.
2003-2009	Atilim University, Electrical and Electronics Engineering, B.S.

ACADEMIC POSITIONS

02/2023-	Associate Professor, Department of Electrical and Electronics Engineering, Atilim University, Turkey
04/2017-01/2023	Assistant Professor, Department of Avionics, Atilim University, Turkey
09/2019-09/2020	Postdoctoral (ERCIM) Fellow, Department of Electronic Systems, Norwegian University of Science and Technology (NTNU), Norway
02/2009-03/2017	Research Assistant, Department of Electrical and Electronics Engineering, Atilim University, Turkey

ADMINISTRATIVE DUTIES

08/2017-08/2019	Vice Director, Atilim University Graduate School of Natural and Applied Sciences
------------------------	--

HONORS&AWARDS

1	The European Research Consortium for Informatics and Mathematics (ERCIM) Alain Bensoussan Fellowship (Grant), 2019
2	Atilim University Scientific Publication Award (Young Category): Award for Outstanding Publication Achievement in 2019-2020 Academic Year, 2021
3	Atilim University Scientific Publication Award (Young Category): Award for Outstanding Publication Achievement in 2020-2021 Academic Year, 2022

RESEARCH INTERESTS

1	Wireless channel modeling
2	Source localization in Electronic Warfare/Radar Systems
3	Physical-layer security of wireless networks through Radio Frequency (RF) fingerprinting
4	Performance evaluation of communication systems/technologies
5	Communications for the Internet-of-Things (IoT)

JOURNAL PUBLICATIONS (SCI-E)

1	M. Bouzidi, A. Amro, Y. Dalveren, F. A. Cheikh, and M. Derawi, LPWAN Cyber Security Risk Analysis: Building a Secure IQRf Solution, <i>Sensors</i> , vol. 23, no. 4, 2078, 2023.
2	V.S. Yilmaz, M. Akdag, Y. Dalveren, R. O. Doruk, A. Kara, and A. Soylu, Investigating the Impact of Two Major Programming Environments on the Accuracy of Deep Learning-Based Glioma Detection from MRI Images, <i>Diagnostics</i> , vol. 13, no. 24, 651, 2023.
3	M. Bouzidi, N. Gupta, Y. Dalveren, M. Mohamed, F. A. Cheikh, and M. Derawi, Indoor Propagation Analysis of IQRf Technology for Smart Building Applications, <i>Sensors</i> , vol. 11, no. 23, 3972, 2022.
4	M. A. A. Imran, E. Arik, Y. Dalveren, M. B. Tabakcioglu, and A. Kara, On the Accuracy of an Emitter Localization Method based on Multipath Exploitation in Realistic Scenarios, <i>Journal of Electromagnetic Waves and Applications</i> , 2022, vol. 36, no. 15, 2022.
5	M. Bouzidi, M. Mohamed, Y. Dalveren, A. Moldsvor, F. A. Cheikh, and M. Derawi, Propagation Measurements for IQRf Network in an Urban Environment, <i>Sensors</i> , vol. 22, no. 18, 7012, 2022.
6	S. Tas, O. Sari, Y. Dalveren, S. Pazar, A. Kara, and M. Derawi, Deep Learning-Based Vehicle Classification for Low Quality Images, <i>Sensors</i> , vol. 22, no. 13, 4740, 2022.
7	H. Almashaqbeh, Y. Dalveren, A. Kara, A Study on the Performance Evaluation of Wavelet Decomposition in Transient-based Radio Frequency Fingerprinting of Bluetooth Devices, <i>Microwave and Optical Technology Letters</i> , vol. 64, no. 4, 2022.
8	I. Mohamed, Y. Dalveren, F. O. Catak and A. Kara, On the Performance of Energy Criterion Method in Wi-Fi Transient Signal Detection, <i>Electronics</i> , vol. 11, no. 2, 269, 2022.
9	Y. Dalveren, A. M. Durukan and A. Kara, 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, <i>Microwave and Optical Technology Letters</i> , vol. 63, no. 11, pp. 2826-2832, 2021.
10	S. Koksai, Y. Dalveren, B. Meiga and A. Kara, Distributed-Denial-of-Service Attack Mitigation in Network Functions Virtualization-based 5G Networks Using Management and Orchestration, <i>International Journal of Communication Systems</i> , vol. 34, no. 9, e4825, 2021.
11	D. E. Sala, Y. Dalveren, A. Kara and M. Derawi, Design and Optimization of Piezoelectric-Powered Portable UV-LED Water Disinfection System, <i>Applied Sciences</i> , 11(7), 3007, 2021.
12	Y. Dalveren, G. Karatas, M. Derawi, and A. Kara, A Simple Propagation Model to Characterize the Effects of Multiple Human Bodies Blocking Indoor Short-Range Links at 28 GHz, <i>Electronics</i> , 10(3), 305, 2021.
13	I. S. Mohamed, Y. Dalveren, and A. Kara, Performance Assessment of Transient Signal Detection Methods and Superiority of Energy Criterion (EC) Method, <i>IEEE Access</i> , vol. 8, pp. 115613-115620, 2020.
14	S. A. Abufana, Y. Dalveren, A. Aghnaiya, A. Kara, Variational Mode Decomposition-Based Threat Classification for Fiber Optic Distributed Acoustic Sensing, <i>IEEE Access</i> , vol. 8, pp. 100152-100158, 2020.
15	M. A. A. Imran, Y. Dalveren, B. Tavli, and A. Kara, Optimal Operation Mode Selection for Energy-Efficient Light-Weight Multi-Hop Time Synchronization in Linear Wireless Sensor Networks, <i>EURASIP Journal on Wireless Communications & Networking</i> , 109, 2020.

16	M. Bouzidi, Y. Dalveren, F.A. Cheikh, and M. Derawi, Use of the IQRF Technology in Internet-of-Things-Based Smart Cities, <i>IEEE Access</i> , vol. 8, pp. 56615-56629, 2020.
17	A. Aghnaiya, Y. Dalveren, and A. Kara, On the Performance of Variational Mode Decomposition-Based Radio Frequency Fingerprinting of Bluetooth Devices, <i>Sensors</i> , vol. 20, no. 6, 1704, 2020.
18	E. Uzundurukan, A. M. Ali, Y. Dalveren, A. Kara, Performance Analysis of Modular RF Front End for RF Fingerprinting of Bluetooth Devices, <i>Wireless Personal Communications</i> , vol. 112, pp. 2519-2531, 2020.
19	Y. Dalveren, A. Kara, Multipath Exploitation in Emitter Localization for Irregular Terrains, <i>Radioengineering</i> , vol. 28, no. 2, pp. 473-482, 2019.
20	Y. Dalveren, A. Alabish, A. Kara, A Simplified Model for Characterizing the Effects of Scattering Objects and Human Body Blocking Indoor Links at 28 GHz, <i>IEEE Access</i> , vol. 7, pp. 69687-69691, 2019.
21	R. Kadioğlu, Y. Dalveren, and A. Kara, Quality of Service Assessment: A Case Study on Performance Benchmarking of Cellular Network Operators in Turkey, <i>Turkish Journal of Electrical Engineering & Computer Sciences</i> , v. 23, no. 2, pp. 548 – 559, 2015.
22	A. Kara, N. E. Cagiltay, and Y. Dalveren, An Enhanced Course in Digital Communications, <i>International Journal of Engineering Education</i> , v. 30, no. 4, pp. 1048 – 1059, 2014.

JOURNAL PUBLICATIONS (Other indexes)

1	Y. Dalveren, A. Kara, Performance Evaluation of Empirical Path Loss Models for a Linear Wireless Sensor Network Deployment in Suburban and Rural Environments, <i>Hittite Journal of Science and Engineering</i> , vol. 7, no. 4, pp. 313-320, 2020.
2	Y. Dalveren, A. Kara, Examining the Effects of Human Bodies Blocking Indoor Links at 28 GHz with a Perfectly Conducting Cylinder Model, <i>Duzce University Journal of Science and Technology</i> , vol. 8, no. 1, pp. 1118-1127, 2020. (in Turkish)
3	E. Uzundurukan, Y. Dalveren, A. Kara, A Database for the Radio Frequency Fingerprinting of Bluetooth Devices. <i>Data</i> , 5(2), 55, 2020.

PROJECTS*

1	“Localization of Emitters by Exploiting Multipaths” funded by TUBITAK-1001, 2019-2021 (Researcher: 09/2019-04/2021; Principal Investigator: 04/2021-09/2021).
---	---

* Atılım University Undergraduate Projects (LAPs) are not listed.

PATENTS

1	Y. Dalveren, A. Kara, “Yansımalar Kullanılarak Emisyon Kaynaklarının Konumlandırılmasında Doğruluğun Arttırılması”, Turkish Patent Institute, Registration Number: 2016 18856 (issued in 2021).
---	---

CONFERENCE PRESENTATIONS/PUBLICATIONS

1	D. Dogan, Y. Dalveren, and A. Kara, A Mini-Review on Radio Frequency Fingerprinting Localization in Outdoor Environments: Recent Advances and Challenges, IEEE 14th International Conference on Communications, Bucharest, Romania, 2022.
2	H. Al-Sudani, A. A. Thabit, and Y. Dalveren, Cognitive Radio and Its Applications in the New Trend of Communication System: A Review, IEEE 5th International Iraqi Conference on Engineering Technology and its Applications (IICETA), 2022.

3	M. Derawi, Y. Dalveren, and F.A. Cheikh, Internet-of-Things-Based Smart Transportation Systems for Safer Roads, IEEE 6th World Forum on Internet of Things, New Orleans, LA, USA, 2020.
4	Y. Dalveren, Target Localization in NLOS Environments by Machine Learning: An Insight from a Literature Review, 6th International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2019), Kyrenia/North Cyprus, 2019.
5	A. Alabish, Y. Dalveren, A. Kara, An Experimental Study towards Examining Human Body Movements in Indoor Wave Propagation at 18 - 22 GHz, IEEE International Symposium on Networks, Computers and Communications (ISNCC'2018), Rome/Italy, 2018.
6	Y. Dalveren, A. Kara, On the Accuracy of TDOA-based Passive Localization of Emitters, 5th International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2018), Kyrenia/North Cyprus, 2017.
7	Y. Dalveren, A. Kara, A Discussion on Using Non-Gaussian Noise to Model Sensor position Error in Source Localization, 4th International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2017), Kyrenia/North Cyprus, 2017.
8	Y. Dalveren, A. Kara, Comparative Analysis of TDOA-based Localization Methods in the Presence of Sensor Position Errors", IEEE 4th International Conference on Control, Decision and Information Technologies (CoDIT'17), Barcelona/Spain, 2017.
9	Y. Dalveren, A. Kara, An Approach for Identifying the Likelihood of an Irregular Terrain Profile Being a Multipath Scattering Center in Emitter Localization, ACM 7th International Conference on Information, Communication and Management (ICICM 2017), Moscow/Russia, 2017.
10	O. Karapür, G. M. Keskin, Y. Dalveren, A. Kara, A Low Cost Smartphone Controlled Wireless Data Logger System for Monitoring of Safety Critical Areas, 3rd International Conference on Advanced Technology & Sciences (ICAT'16), Konya/Turkey, 2016.
11	M.T. Ozturk, Y. Dalveren, A. Kara, Spectrum Analysis of Parabolic Range Gate Pull Off (RGPO) Signals, IEEE 23th Signal Processing and Communications Applications Conference, Malatya/Turkey, 2015.
12	Y. Dalveren, Using E-Learning in Enterprise Resource Planning (ERP) Training: A Case Study to Assist Curriculum Designers in Turkey, 5th World Conference on Educational Sciences, Rome/Italy, 2013.
13	Y. Dalveren, A. Kara, On the Design of Elective Courses in RF and Communications According to the Needs of Industry, 4th World Conference on Educational Sciences, Barcelona/Spain, 2012.
14	Y. Dalveren, A. Kara, Classification of Objects Over and Around Sea Surface for Passive Geolocation, 12th Mediterranean Microwave Symposium (MMS 2012), Istanbul/Turkey, 2012.
15	K.Y. Kapusuz, Y. Dalveren, A. Kara, Deniz Yüzeyi ve Çevresindeki Saçıcıların Bistatik Saçılma Katsayısının Kutuplanma ve Saçılma Açısına Bağımlılığının İncelenmesi, URSI Ulusal Kongresi, İstanbul/Turkey, 2012.
16	Y. Dalveren, A. Kara, On the Requirements of Industry on RF and Communication Graduates: Comparison of Local/National and International Market, 2nd International Engineering Education Conference, Antalya/Turkey, 2012.
17	A. Kara, N. E. Cagiltay, Y. Dalveren, Development of a Digital Communications Course Enriched by Virtual and Remote Laboratory Tools, IEEE 10th Conf. on Information Technology Based Higher Education and Training (ITHET 2011), Kusadasi/Turkey, 2011.
18	O. Turkkan, A. Kara, Y. Dalveren, Design of a Low Cost Wireless Transmission Module, International Conference on Wireless Communications and Mobile Computing, Istanbul/Turkey, 2011.

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	92
H-index (ISI Web of Science):	7

COURSES GIVEN

1	EE106 Introduction to Computational Tools
2	EE213 Probability and Random Processes
3	EE316 Communication Systems
4	EE402 Wireless Communications
5	EE404 Radar Systems
6	EE493/494 Design Projects I/II

THESES SUPERVISED

1	Selen Yilmaz (MSc), "A Study on Microstrip Antenna Design for 77 GHz Radar Systems", 2023 (supervisor).
2	Haider Jalil Sahib Al-Sudani (MSc), "High-Order Cumulants Based Classification for Cognitive Radio Applications", Atilim University, 2023 (supervisor).
3	Ozgen Sari (MSc), "Deep Learning-based Vehicle Classification under Low Quality Imaging Conditions", Atilim University, 2022 (supervisor).
4	Sumeyra Tas (MSc), "Deep Learning-based Vehicle Classification for Low Quality Images", Atilim University, 2022 (supervisor).
5	Hemam Nawaf Abdallah Almashaqbeh (MSc), "Use of Wavelet Decomposition in Radio Frequency Fingerprinting of Bluetooth Signals", Atilim University, 2021 (supervisor).
6	Mohamed Zeglam (MSc), "Comparative Assessment of Simple and Accurate Localization Methods Based on TDOA-AOA Measurements", Atilim University, 2021 (supervisor).
7	Ahmed Alabish (PhD), "Modeling and Characterization of Human Body Shadowing at Millimeter Waves", Atilim University, 2020 (co-supervisor).
8	Ahmet Mert Durukan (MSc), "Comparative Assessment of Switching Options for Back to Back Antennas in Wireless Networks", Atilim University, 2019 (supervisor).