

Asst. Prof. ERHAN SESLİ

Personal Information

Office Phone: [+90 462 377 8474](tel:+904623778474) Extension: 8474

Email: erhansesli@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr/erhansesli>

Address: KTU Of Teknoloji Fakültesi, Çamlı Mahallesi Hacı Mehmet Baheddin Ulusoy Cad. No:144 Of/Trabzon

International Researcher IDs

ScholarID: 11390970735197296686

ORCID: 0000-0002-0039-2927

Publons / Web Of Science ResearcherID: L-6234-2017

ScopusID: 57212476673

Yoksis Researcher ID: 152162

Biography

Erhan Sesli was born in 1983. He received his B.Sc. degree in Electrical and Electronics Engineering from Karadeniz Technical University, Trabzon, Turkey, in 2005. After graduation, he worked in the private sector for several years as a telecommunications engineer, gaining industry experience in network infrastructure and communication technologies. He pursued his academic career at Karadeniz Technical University, where he obtained his M.Sc. and Ph.D. degrees from the Graduate School of Natural and Applied Sciences in 2012 and 2019, respectively. His doctoral research focused on advanced optimization techniques for range-based localization in wireless sensor networks (WSNs).

Dr. Sesli's research interests include range-based localization in WSNs, optimization techniques, metaheuristic algorithms, and artificial intelligence applications. He is particularly interested in the integration of intelligent systems into real-world problems, such as intelligent transportation systems (ITS) and smart infrastructure solutions. His work contributes to enhancing the efficiency, accuracy, and adaptability of wireless communication and localization systems.

Education

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü Elektrik-Elektronik Müh., Elektrik-Elektronik Müh. A.B.D., Turkey 2013 - 2019

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü Elektrik-Elektronik Müh., Elektrik-Elektronik Müh. A.B.D., Turkey 2009 - 2012

Undergraduate, Karadeniz Technical University, Müh. Mim. F.\Elektrik-Elektronik Müh., Elektrik-Elektronik Müh. A.B.D., Turkey 2001 - 2005

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Örnek Uygulamalarla Öğrenme Kazanımlarının Yazılması ve İş Yüğü Hesaplanması, KTÜ ÖĞRETME VE ÖĞRENME MERKEZİ (Ö-MER), 2023

Occupational Health and Safety, Temel İş Sağlığı ve Güvenliği Eğitimi Katılım Belgesi, Karadeniz Teknik Üniversitesi, 2021
Education Management and Planning, Akademik Düzeyde Araştırma Projesi Hazırlama Eğitimi, Karadeniz Teknik Üniversitesi, 2016
Education Management and Planning, Kendimizi Tanıyalım ve Geliştirelim, METEK / Milli Eğitim Bakanlığı Mesleki Teknik Eğitim Genel Müdürlüğü, 2014
Education Management and Planning, Certificate of Attendance BTEC Levels 4 & 5 HND Implementation Training, EDEXCEL, 2011
Quality Management, On Quality Assurance for Edexcel's Higher National Diploma Programme, Hackney Community College, 2010
Education Management and Planning, Temel Seviye Pnömatik/Hidrolik ve Elektropnömatik/Elektrohidrolik Eğitimi, KONTEK, 2009

Dissertations

Doctorate, Akıllı Ulaşım Sistemleri ve Otonom Taşıt Teknolojileri için Yüksek Doğruluklu Konumlandırmanın Sağlanması, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği/ Telekomünikasyon, 2019
Postgraduate, Giriş Gerilimi ve Yüğü Değişken DA/DA Yukarı Dönüştürücü Denetimi, Karadeniz Technical University, Elektrik-Elektronik Mühendisliği, Elektrik-Elektronik Mühendisliği/ Elektronik Bilim Dalı, 2012

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Positions

Assistant Professor, Karadeniz Technical University, Of Teknoloji Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2022
- Continues
Lecturer PhD, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Elektronik ve Otomasyon, 2019 - 2022
Lecturer, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Elektronik ve Otomasyon, 2009 - 2019

Academic and Administrative Experience

Head of Department, Karadeniz Technical University, Of Teknoloji Fakültesi, Elektronik ve Haberleşme Mühendisliği, 2023 - Continues
Deputy Head of Department, Karadeniz Technical University, Of Teknoloji Fakültesi, Elektronik Ve Haberleşme Mühendisliği, 2022 - 2025
Karadeniz Technical University, Sürmene Abdullah Kanca Meslek Yüksekokulu , Elektronik Ve Otomasyon , 2009 - 2017

Courses

Undergraduate

Ship Electronics Hardwae, Undergraduate, 2021 - 2022

Associate Degree

Sensörler ve Transduserler, Associate Degree, 2021 - 2022

Mesleki İngilizce II, Associate Degree, 2016 - 2017

Mikrodenetleyiciler, Associate Degree, 2014 - 2015

Bilgisayarda Programlama, Associate Degree, 2014 - 2015

Algoritma ve Programlama, Associate Degree, 2014 - 2015

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Energy-efficient OFDMA resource allocation in HetNets using discrete particle swarm optimization**
Sesli E., Gürsoy E., Hacıoğlu G.
PEER-TO-PEER NETWORKING AND APPLICATIONS, vol.8, pp.1-19, 2025 (SCI-Expanded)
- II. **On the assessment of meta-heuristic algorithms for automatic voltage regulator system controller design: a standardization process**
Çavdar B., Şahin E., Sesli E.
Electrical Engineering, vol.106, no.5, pp.5801-5839, 2024 (SCI-Expanded)
- III. **Human-Robot Interaction (HRI) through hand gestures for possible future war robots: A leap motion controller application**
SESLİ E.
Multimedia Tools and Applications, vol.83, no.12, pp.36547-36570, 2024 (SCI-Expanded)
- IV. **Cascaded fractional order automatic generation control of a PV-reheat thermal power system under a comprehensive nonlinearity effect and cyber-attack**
Çavdar B., Şahin E., Sesli E., Akyazı Ö., Nuroğlu F. M.
Electrical Engineering, vol.105, no.6, pp.4339-4360, 2023 (SCI-Expanded)
- V. **Improved RSS Based Distance Estimation for Autonomous Vehicles**
Hacıoğlu G., Sesli E.
WIRELESS PERSONAL COMMUNICATIONS, vol.125, no.1, pp.325-350, 2022 (SCI-Expanded)
- VI. **Multi objective clustering for wireless sensor networks**
Hacıoğlu G., Kand V. F. A., Sesli E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.59, pp.86-100, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of Derivative Filter Usage on a PID Controller Optimized via Pathfinder Algorithm: An Example of a DC-MSCS**
Baslik S., Sesi E., Akyazı Ö.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.27, pp.185-196, 2024 (ESCI)
- II. **An Energy and Fuel-effective Solution for School Exploration of a Fishing Vessel Through Swarm Intelligence Approach**
Sesli E.
JOURNAL OF ETA MARITIME SCIENCE, vol.10, no.3, pp.168-176, 2022 (ESCI)
- III. **Contiki OS Usage in Wireless Sensor Networks (WSNs)**
Sesli E., Hacıoğlu G.
Turkish Journal of Electromechanics & Energy, vol.2, no.2, pp.1-6, 2017 (Peer-Reviewed Journal)
- IV. **An Operator-Assisted Robotic Arm Implementation Via Leap Motion Controller**
Küçükali M., Sesli E.
Electronic Journal of Vocational Colleges, vol.7, no.1, pp.84-93, 2017 (Peer-Reviewed Journal)
- V. **RSSI and Flower Pollination Algorithm Based Location Estimation for Wireless Sensor Networks**
Sesli E., Hacıoğlu G.
International Journal of Intelligent Systems and Applications in Engineering, vol.4, pp.13-17, 2016 (Scopus)
- VI. **Güncel Sorunlara Pratik Çözümler: Güvenilir Ütü Tasarımı**
ŞAHİN E., SESLİ E., AKTOĞAN A.
3e Electrotech, no.265, pp.98-100, 2016 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Boosting 3D WSN Localization Accuracy: Analyzing the Impact of Single Mobile Anchor Node Movements**
Sesli E.
2024 Innovations in Intelligent Systems and Applications Conference (ASYU), Ankara, Turkey, 16 - 18 October 2024, pp.1-6, (Full Text)
- II. **A Practical Eyewear Solution for Visually Impaired People**
SESLİ E.
3rd International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 19 - 21 September 2019, pp.58-64, (Full Text)
- III. **Contiki OS Usage in Wireless Sensor Networks (WSNs)**
SESLİ E., HACIOĞLU G.
2nd International Conference on Advanced Engineering Technologies (ICADET'17), Bayburt, Turkey, 21 - 23 September 2017, pp.1053-1056, (Full Text)
- IV. **Leach and AHP Based Clustering Algorithm For Wireless Sensor Networks**
HACIOĞLU G., SESLİ E., GANGAL V., AYDIN V.
5th International Conference on Advanced Technology & Sciences (ICAT'17), İstanbul, Turkey, 9 - 12 May 2017, pp.591-594, (Full Text)
- V. **RSSI and Flower Pollination Algorithm Based Location Estimation for Wireless Sensor Networks**
SESLİ E., HACIOĞLU G.
INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGY & SCIENCES, Konya, Turkey, 1 September - 03 November 2016, pp.596-602, (Full Text)
- VI. **Performance Analysis of Positioning Based Velocity Estimation Methods for Vehicles in ITS**
SESLİ E., HACIOĞLU G., GANGAL V.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1598-1601, (Full Text)
- VII. **Energy Efficient Multihop Routing in Wireless Sensor Networks Based on Ant Colony Algorithm**
GANGAL V., HACIOĞLU G., SESLİ E.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1877-1880, (Full Text)
- VIII. **Meslek Yüksekokulu ve Sanayi Entegrasyonunun Bölgeye Katkıları**
SESLİ E., AKYAZI Ö.
Bölgesel Kalkınma Kongresi, Balıkesir, Turkey, 14 - 16 November 2009, pp.299-304, (Full Text)

Funded Projects

HACIOĞLU G., AKTOĞAN A., SESLİ E., DEMİRTAŞ C., KOLCUOĞLU Y., Project Supported by Higher Education Institutions, Kızıl Ötesi Yöntemle Çalışan Fındık Kurutma Makinesi, 2022 - Continues

HACIOĞLU G., SESLİ E., Project Supported by Higher Education Institutions, AKILLI ULAŞIM SİSTEMLERİNDE YÜKSEK DOĞRULUKLU KONUMLANDIRMANIN SAĞLANMASI, 2016 - 2020

Peer Reviews in Scientific Publications

PLOS ONE, SCI Journal, June 2024

Niğde Ömer Halis Demir Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, November 2023

Karadeniz Fen Bilimleri Dergisi, National Scientific Refreed Journal, February 2023

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, January 2023

IEEE SENSORS JOURNAL, SCI Journal, October 2022

El-Cezerî Journal of Science and Engineering, Other Indexed Journal, October 2020

IEEE SENSORS JOURNAL, Journal Indexed in SCI-E, May 2020

IEEE SENSORS JOURNAL, Journal Indexed in SCI-E, March 2019

International Conference on Computer Science and Application Engineering, Conference Paper (Full Text), September 2017

Metrics

Publication: 27

Citation (WoS): 51

Citation (Scopus): 71

H-Index (WoS): 2

H-Index (Scopus): 3

Congress and Symposium Activities

Innovations in Intelligent Systems and Applications Conference, Attendee, Ankara, Turkey, 2024

3rd International Conference on Advanced Engineering Technologies - ICADET 2019, Attendee, Bayburt, Turkey, 2019

2nd International Conference on Advanced Engineering Technologies - ICADET 2017, Attendee, Bayburt, Turkey, 2017

3rd International Conference on Advanced Technology & Sciences, ICAT'16 Konya, Turkey, Attendee, Konya, Turkey, 2016

IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Attendee, Malatya, Turkey, 2015

Awards

Sesli E., The Best Presentation Award, 2Nd International Conference On Advanced Engineering Technologies, September 2017