

## Asst. Prof. ERHAN SESLİ

### Personal Information

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### 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 in 2005, Trabzon, Turkey. He worked in private sector a couple of years as telecommunication engineer. In 2012 and 2019, he received MSc and PhD degrees respectively from Karadeniz Technical University Graduate School of Natural and Applied Sciences. Erhan's research interests include range-based localization in wireless sensor networks (WSNs), optimization, metaheuristic algorithms and intelligent transportation systems (ITS).*

### Education Information

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 Yükü 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 Titles / Tasks**

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 - Continues

Karadeniz Technical University, Sürmene Abdullah Kanca Meslek Yüksekokulu , Elektronik Ve Otomasyon , 2009 - 2017

## **Courses**

Sensörler ve Transduserler, Associate Degree, 2021 - 2022

Ship Electronics Hardwae, Undergraduate, 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

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

1. 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)

### **II. 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)

### **III. 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)

### **IV. 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)

### **V. 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., Sesli E., Akyazı Ö.

JOURNAL OF POLYTECHNIC-POLITEKNİK 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)

## **Refereed Congress / Symposium Publications in Proceedings**

### **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

### **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

**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

**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

**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

**VI. 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

**VII. 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

**VIII. Kıyıcı Beslemeli DA Motorun Oransal İntegral ve Bulanık Mantık Oransal İntegral Denetleyicilerle Hız Kontrolü Karşılaştırılması**

SESLİ E., AKYAZI Ö., CORA A.

ELEKTRİK-ELEKTRONİK-BİLGİSAYAR VE BİYOMEDİKAL MÜHENDİSLİĞİ 13. ULUSAL KONGRESİ VE FUARI BİLDİRİLERİ, Ankara, Turkey, 23 - 26 December 2009, pp.31-35

**IX. Meslek Yüksekokulu ve Sanayi Entegrasyonunun Bölgeye Katkıları**

SESLİ E., AKYAZI Ö.

Bölgesel Kalkınma Kongresi, Balıkesir, Turkey, 14 - 16 November 2009, pp.299-304

## Supported 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

## Scientific Refereeing

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: 26

Citation (WoS): 48

Citation (Scopus): 67

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