Asst. Prof. ÖZGÜR ERGÜL

Personal Information

Office Phone: +90 312 582 3310
Email: ergul@gazi.edu.tr
Web: https://avesis.gazi.edu.tr/12871
Address: ergul@gazi.edu.tr

International Researcher IDs
ScholarID: 8oS1Np8AAAAJ
ORCID: 0000-0001-9875-1168
Publons / Web Of Science ResearcherID: F-8561-2013
ScopusID: 57203103715
Yoksis Researcher ID: 156793

Biography

Ozgur Ergul received his BSc., MS. and Ph.D. degrees in electrical and electronics engineering from Hacettepe University, Middle East Technical University and Koç University, respectively. He worked in Havelsan A.Ş. first as a software engneer, then as a systems engineer. After obtaining his PhD., he worked in Çankaya University and Atılım Unversity. He currently works in Gazi University, Faculty of Engineering, Department of Electrical-Electronics as an Assist. Prof. His research interests include next-generation wireless communications, vehicular communications, and the Internet of Things.

Education

Doctorate, Koc University, Institute Of Science, Elektrik Ve Elektronik Mühendisliği (Dr), Turkey 2011 - 2015
Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Elektrik Ve Elektronik Mühendisliği (Yl) (Tezli), Turkey 2003 - 2006
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1992 - 1999

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Cognitive communication techniques for next-generation heterogeneous networks, Koc University, Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Mühendisliği (Dr), 2015
Postgraduate, A wavelength selectable WDM source using a fiber sagnac loop filter, Middle East Technical University, Analiz ve Fonksiyonlar Teorisi, Elektrik Ve Elektronik Mühendisliği (Yl) (Tezli), 2006

Research Areas

Engineering and Technology

Academic Positions

Assistant Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - Continues
Assistant Professor, Atilim University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıcs Engıneerıng,
2019 - 2020
Assistant Professor, Cankaya University, Faculty Of Engıneerıng, Department Of Electronıcs And Communıcatıons
Engıneerıng, 2016 - 2020
Research Assistant, Van Yüzüncü Yil University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü,
2003 - 2004

Academic and Administrative Experience

Cankaya University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2018 - 2020

Courses

Postgraduate
Information and Coding Theory, Postgraduate, 2022 - 2023
Communication Theory, Postgraduate, 2022 - 2023
Wireless Sensor Networks, Postgraduate, 2017 - 2018, 2016 - 2017
Cognitive Radio Networks, Postgraduate, 2017 - 2018
Undergraduate
Digital Communication, Undergraduate, 2022 - 2023
Data Structures, Undergraduate, 2022 - 2023
Digital Communication, Undergraduate, 2021 - 2022
Detection Estimation and Modulation Theory, Undergraduate, 2017 - 2018, 2016 - 2017
Microprocessors, Undergraduate, 2017 - 2018
Diigital Design II, Undergraduate, 2017 - 2018
Fundamentals of Communication, Undergraduate, 2017 - 2018
Introduction to Telecommonication Networks, Undergraduate, 2017 - 2018, 2016 - 2017
Telecommunication Networks, Undergraduate, 2016 - 2017
Digital Design II, Undergraduate, 2016 - 2017
Electronics II, Undergraduate, 2016 - 2017

Supervised Theses

Ergül Ö., Power Amplifier Module Gain Calibration Based on Deep Learning, Postgraduate, A.BUĞRA(Student), 2023
Ergül Ö., Wiggly Line Coupler Design, Postgraduate, E.ÇUKUR(Student), 2022
ERGÜL Ö., Improvement of range resolution in passive bistatic radar using fm signals, Postgraduate,
M.ALSUDANI(Student), 2020
ERGÜL Ö., Comparison of consensus algorithms in wireless sensor networks, Postgraduate, A.SULAIMAN(Student), 2019
ERGÜL Ö., Resource allocation for underlay cognitive radio networks, Postgraduate, M.HATEM(Student), 2019
ERGÜL Ö., Comparison of indoor positioning techniques using visible light communication, Postgraduate,
A.ADNAN(Student), 2018

Journal articles indexed in SCI, SSCI, and AHCI

I.   **Detection of cyber-attacks on smart grids using improved VGG19 deep neural network architecture and Aquila optimizer algorithm**
Mhmood A. A., ERGÜL Ö., Rahebi J.
Signal, Image and Video Processing, vol.18, no.2, pp.1477-1491, 2024 (SCI-Expanded)

II. **Rescue: Wireless power-enabled communication architecture for earthquake rescue operations**
Badirkhanli O., Akan O. B., Ergul Ö.
PHYSICAL COMMUNICATION, vol.38, 2020 (SCI-Expanded)

III. **Spectrum-Aware and Energy-Adaptive Reliable Transport for Internet of Sensing Things**
Bicen A. O., ERGÜL Ö., Akan O. B.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.67, no.3, pp.2359-2366, 2018 (SCI-Expanded)

IV. **Throughput maximization in electromagnetic energy harvesting cognitive radio sensor networks**
ERGÜL Ö., Alagoz F., Akan O. B.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.29, no.7, pp.1305-1322, 2016 (SCI-Expanded)

V.   **Opportunistic reliability for cognitive radio sensor actor networks in smart grid**
ERGÜL Ö., Bicen A. O., Akan O. B.
AD HOC NETWORKS, vol.41, pp.5-14, 2016 (SCI-Expanded)

VI. **Adaptive and Cognitive Communication Architecture for Next-Generation PPDR Systems**
ERGÜL Ö., Shah G. A., Canberk B., Akan O. B.
IEEE COMMUNICATIONS MAGAZINE, vol.54, no.4, pp.92-100, 2016 (SCI-Expanded)

VII. **Communicate to illuminate: State-of-the-art and research challenges for visible light communications**
ERGÜL Ö., Dinc E., Akan O. B.
PHYSICAL COMMUNICATION, vol.17, pp.72-85, 2015 (SCI-Expanded)

VIII. **Cognitive Radio Sensor Networks**
Akan O. B., Karli O. B., ERGÜL Ö.
IEEE NETWORK, vol.23, no.4, pp.34-40, 2009 (SCI-Expanded)

Articles Published in Other Journals

I.   **Information theoretic modeling of paranodal regions in myelinated axons**
Koca C., Ergül Ö., Civas M., Akan Ö. B.
ITU JOURNAL ON FUTURE AND EVOLVING TECHNOLOGIES, vol.2, no.3, pp.101-110, 2021 (Peer-Reviewed Journal)

Books

I.   **Routing in Cognitive VehicularNetworks**
ERGÜL Ö., AKAN Ö. B.
in: Cognitive Vehicular Networks, Vegni Anna Maria, Agrawal Dharma P., Editor, CRC Press, pp.112-125, 2018

II. **Cognitive Radio SensorNetworks in Smart Grid**
ERGÜL Ö., cetinkaya o., AKAN Ö. B.
in: Smart Grid: Networking, Data Management, and Business Models, Mouftah Hussein T., Erol-Kantarci Melike, Editor, CRC Press, pp.29-51, 2018

Papers Presented at Peer-Reviewed Scientific Conferences

I.   **Cooperative Spectrum Sensing For IOT Using Smart Contracts on Blockchain**
Dursun Y. E., Ergül Ö.

3. Uluslararası Lisansüstü Çalışmalar Kongresi, Ankara, Turkey, 14 - 17 June 2023, pp.857-858

II. **The Improvement of Model Performance for Automated Tooth Identification**
Goc Y. F., ERGÜL Ö., ÇELİK B., ÇELİK M. E.
International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 16 - 18 November 2023, pp.736-740

III. **DALGALI HAT KUPLÖR TASARIMI**
Çukur E., Ergül Ö.
7. ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, İstanbul, Turkey, 16 - 18 April 2022, pp.632-639

IV. **Soft Handover in OFDMA Based Visible Light Communication Networks**
Dinc E., ERGÜL Ö., AKAN Ö. B.
2015 IEEE 82nd Vehicular Technology Conference (VTC2015-Fall), Boston, MA, USA, 6 - 09 September 2015

V. **Cooperative coarse spectrum sensing for cognitive radio sensor networks**
Ergül Ö., Akan Ö. B.
2014 IEEE Wireless Communications and Networking Conference (WCNC), İstanbul, Turkey, 6 - 09 April 2014

VI. **DRX and QoS-aware energy-efficient uplink scheduling for long term evolution**
ERGÜL Ö., Yilmaz O., Koc A. T., AKAN Ö. B.
2013 IEEE Global Communications Conference (GLOBECOM), Atlanta, GA, United States Of America, 9 - 13 December 2013, pp.4644-4649

VII. **Energy-efficient cooperative spectrum sensing for cognitive radio sensor networks**
ERGÜL Ö., AKAN Ö. B.
2013 IEEE Symposium on Computers and Communications (ISCC), Split, Croatia, 7 - 10 July 2013

Metrics

Publication: 20
Citation (WoS): 508
Citation (Scopus): 640
H-Index (WoS): 6
H-Index (Scopus): 7

Non Academic Experience

Company, Havelsan A.Ş., Bilgi Güvenliği, Yazılım Mühendisi