

Assoc. Prof. ÖZGÜR ERTUĞ

Personal Information

Email: ertug@gazi.edu.tr

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

Education Information

Doctorate, Middle East Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey
2000 - 2005

Post Graduate, Rice University, School Of Engineering-Department Of Electrical And Computer Engineering, United States
Of America 1997 - 1999

Under Graduate, University of Southern California, School Of Engineering-Electrical Engineering Department, United
States Of America 1994 - 1997

Dissertations

Doctorate, Generalized Random Spreading Performance Analysis of CDMA over GWSSUS Fading Channels, Middle East
Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2005

Post Graduate, Real-Time Prefecthing and Buffer Management for Paralel Multimedia I/O Systems, Rice University,
School Of Engineering-Department Of Electrical And Computer Engineering, 1999

Academic Titles / Tasks

Assistant Professor, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2006 - Continues
Research Assistant, Middle East Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü,
2000 - 2006

Research Assistant, Rice University, Elektrik Ve Bilgisayar Mühendisliği, 1997 - 1999

Professional Experience

Deputy Head of Department, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2015 -
2016

Courses

Sayısal Haberleşme, Post Graduate, 2016 - 2017, 2017 - 2018

Kablosuz Haberleşme, Post Graduate, 2016 - 2017, 2017 - 2018

Telekomunikasyon I, Under Graduate, 2016 - 2017, 2017 - 2018

Telekomunikasyon II, Under Graduate, 2016 - 2017, 2017 - 2018

Advising Theses

ERTUĞ Ö., Improving the transmission of UWB MB-OFDM system using adaptive modulation, Post Graduate, M.ALBOĞA(Student), 2020

ERTUĞ Ö., Kod uzay çoklama yöntemi alıcı verici anten seçimi ile bit hata oranı azaltımı ve kapasite artırımı, Doctorate, M.CİVİL(Student), 2019

ERTUĞ Ö., Alçak gerilim güç hattı haberleşmesinde kablo uzunluğu ve hattaki empedans değerlerine göre ber/snr analizi, Post Graduate, T.BAŞAYAR(Student), 2019

ERTUĞ Ö., Adaptive Nonlinear Multiuser Detection Using Innovative Algorithms In Sdma-Ofdm Systems, Post Graduate, U.YEŞİLYURT(Student), 2018

ERTUĞ Ö., Adaptive modulation coding MIMO-OFDM spatial multiplexing based broadband powerline communication, Post Graduate, G.KARAARSLAN(Student), 2018

ERTUĞ Ö., Adaptive Modulation and Coding MIMO-OFDM Broadband Powerline Communication, Post Graduate, G.KARAARSLAN(Student), 2018

ERTUĞ Ö., Adaptive Modulation Coding Mimo-Ofdm Spatial Multiplexing Based Broadband Powerline Communication, G.Karaarslan(Student), 2018

ERTUĞ Ö., The Effects Of Jammers On Lte/Lte-A Downlink Physical Layer, Post Graduate, G.KISA(Student), 2018

ERTUĞ Ö., On The Design And Performance Analysis Of Fh-Ttc-Cpm-Fde Waveform High Frequency Communications, Post Graduate, P.EBRAHIMPOUR(Student), 2016

ERTUĞ Ö., Analysis Of The Bit Error Rate Of M-Psk Systems Using Lmmse Channel Estimation And Mrc/Egc Diversity Combining Over Ricean-Fading Channels, Post Graduate, S.MUSAZADE(Student), 2016

ERTUĞ Ö., Performance analysis of SC-FDMA uplink communication systems using multiple carrier frequency offset synchronization with null subcarriers, Post Graduate, M.ANIL(Student), 2013

ERTUĞ Ö., Capacity improvement in mimo-ofdm wlan systems using compact multimode antenna arrays and antenna selection, Doctorate, A.YAVANOĞLU(Student), 2013

ERTUĞ Ö., Minimum BIT-ERROR-RATE linear multiuser detector for time-varying and frequency-selective fading DS-CDMA channels, Doctorate, M.ZEYBEK(Student), 2013

ERTUĞ Ö., Performance improvement of single code cyclic shift (SCCS) multiuser detector by using turbo coding and multiple antenna receive diversity over multipath fading channels for synchronous DS-CDMA systems, Post Graduate, S.GÜNDOĞAN(Student), 2013

ERTUĞ Ö., Çok giriş çok çıkış çoklu taşıyıcı kod bölmeli çoklu erişim ve çok giriş çok çıkış uzay zaman kodlama dik frekans bölmeli çoklu erişim sistemleri performans analizi, Post Graduate, A.ASLAN(Student), 2012

ERTUĞ Ö., Uyarlama modüasyonlu turbo kodlanmış dikgen frekans bölmeli çoklama (OFDM) sistemlerin mükemmel olmayan kanal kestirimi altında incelenmesi, Post Graduate, M.CİVİL(Student), 2012

ERTUĞ Ö., Analysis of adaptive modulated & turbo coded ofdm systems under imperfect channel estimation, M.Civil(Student), 2012

ERTUĞ Ö., Joint decision feedback equalization and interference-cancelling multipath combining for mobile radio systems, Post Graduate, S.ŞAHİN(Student), 2011

ERTUĞ Ö., Examination of the spatial modal diversity gain in circular microstrip antennas, Post Graduate, R.URFALIOĞLU(Student), 2011

ERTUĞ Ö., Performance analysis of MRC/EGC antenna diversity for M-GAM systems over Ricean fading channels with psam-based LMMSE channel estimation, Post Graduate, J.ALİ(Student), 2010

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

- I. **On the Design and Performance Analysis of Low-Correlation Compact Space-Multimode Diversity Stacked Microstrip Antenna Arrays for MIMO-OFDM WLANs over Statistically-Clustered Indoor Radio Channels**
Savascihabes A., ERTUĞ Ö., Yazgan E.
RADIOENGINEERING, vol.24, no.1, pp.54-63, 2015 (Journal Indexed in SCI)
- II. **On the Comparative Performance Analysis of Turbo-Coded Non-Ideal Single-Carrier and Multi-Carrier Waveforms over Wideband and Vogler-Hoffmeyer HF Channels**

Refereed Congress / Symposium Publications in Proceedings

- I. **A New Algorithm with Adaptive Power Allocation (APA) for Variable Transmit Antenna Selection under MISO-SCMA Systems**
Civil M., ERTUĞ Ö.
27th International Conference on Software, Telecommunications and Computer Networks (SoftCOM), Split, Croatia, 19 - 21 September 2019, pp.216-220
- II. **Compressed Sensing Based Multiuser Detection for Sparse Code Multiple Access**
Durak M. H. , ERTUĞ Ö.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019
- III. **CS-Based Multiuser Detector for SCMA Systems**
Durak M. H. , ERTUĞ Ö.
International Symposium on Networks, Computers and Communications (ISNCC), İstanbul, Turkey, 18 - 20 June 2019
- IV. **Adaptive Modulation and Coding Technique under Multipath Fading and Impulsive Noise in Broadband Power-line Communication**
ERTUĞ Ö., KARAARSLAN G.
ELECO 2017, 30 November - 02 December 2017
- V. **Hybrid ML-MMSE Adaptive Multiuser Detection based on Joint Channel Estimation for SDMA-OFDM Systems**
ERTUĞ Ö., YEŞİLYURT U.
2017 SOFTCOM, 21 - 23 September 2017
- VI. **Hybrid ML-MMSE Adaptive Multiuser Detection Based on Joint Channel Estimation in SDMA-OFDM Systems**
YEŞİLYURT U., ERTUĞ Ö.
25th International Conference on Software, Telecommunications and Computer Networks (SoftCOM), Split, Croatia, 21 - 23 September 2017, pp.136-140
- VII. **On the Bit Error Rate Analysis of M-PSK Systems using LMMSE Channel Estimation and MRC/EGC Diversity Combining over Ricean-Fading Channels**
Ebrahimpour P., Musazade S., ERTUĞ Ö.
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.609-611
- VIII. **Performance Assessment of TTC CPM FDE OFDM Waveforms for Narrowband and Wideband HF Military Communications**
Ebrahimpour P., ERTUĞ Ö.
Proceedings of 2015 Knowledge-Based Engineering and Innovation (KBEI'15), BİLİNMEYEN ÜLKELER (DİĞER), 5 - 06 November 2015, pp.1421-1425
- IX. **On the Optimum Ring Ratio Determination for 16-DAPSK Modulation in OFDM Systems**
Genc F., YENGEL E., Savaschabes A., ERTUĞ Ö.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.742-745
- X. **CAPACITY IMPROVEMENT OF IEEE802.11N MIMO-OFDM WLANS USING JOINT TRANSMIT/RECEIVE ANTENNA SELECTION OVER SPATIALLY MULTIPLEXING CORRELATED CHANNELS**
SAVAŞCIHABEŞ A., ERTUĞ Ö.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.361-364
- XI. **On the Comparative Performance Analysis of GFDMA and SC-FDMA Systems Under Multiple CFO**

Synchronization Using Null Sub-carriers

Resat M. A. , ERTUĞ Ö.

22nd International Conference on Software, Telecommunications and Computer Networks (SoftCOM), Split, Croatia, 17 - 19 September 2014

XII. COMPARISON OF THE PERFORMANCE ANALYSES OF SC-FDMA AND GFDMA SYSTEMS UNDER NULL SUB-CARRIERS BASED MULTIPLE CARRIER FREQUENCY OFFSET SYNCHRONIZATION

Resat M. A. , ERTUĞ Ö.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1355-1358

XIII. An Efficient Algorithm Assisted Minimum Bit Error Rate Multiuser Detector for DS-CDMA Systems in Time-Varying and Frequency-Selective Fading Channels

Zeybek M., ERTUĞ Ö.

4th International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT), St Petersburg, Russia, 3 - 05 October 2012, pp.154-161

Supported Projects

ERTUĞ Ö., Project Supported by Higher Education Institutions, Kablosuz Haberleşme Sistemlerinde Çabuk-Protipleme için Yazılım-Tabanlı Test-Sahası Gerçeklenimi, 2011 - 2014

ERTUĞ Ö., Project Supported by Higher Education Institutions, Kablosuz Ağlarda Enterferans-Azaltımı için Kompakt Dizinlerle Işın-Oluşturma, 2010 - 2011

Citations

Total Citations (WOS):13

h-index (WOS):2