

Assoc. Prof. EYLEM ERDOĞAN

Personal Information

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Education Information

Post Doctorate, Lakehead University, Elektrik-Elektronik Müh., Mühendislik Fakültesi, Canada 2015 - 2016

Doctorate, Kadir Has Üniversitesi, Elektronik Müh., Fen Bilimleri Enstitüsü, Turkey 2009 - 2014

Post Graduate, Işık Üniversitesi, Elektronik Müh., Mühendislik Fakültesi, Turkey 2004 - 2007

Under Graduate, Işık Üniversitesi, Elektronik Müh., Mühendislik Fakültesi, Turkey 2003 - 2003

Foreign Languages

German, A1 Beginner

English, C1 Advanced

Dissertations

Doctorate, Performance analysis of low complexity maximal ratio transmissıon approaches in multi-relay networks., Kadir Has Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Müh., 2014

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Associate Professor, İstanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Department Of Electrical And Electronic Engineering, 2020 - Continues

Assistant Professor, İstanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Elektrik-Elektronik Müh., 2018 - 2020

Other, Lakehead University, Doktora Sonrası Araştırmacı., Mühendislik Fakültesi, 2015 - 2016

Research Assistant, Kadir Has Üniversitesi, Mühendislik Ve Doęa Bilimleri Fakültesi, Elektronik Müh., 2010 - 2014

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

- **Secrecy outage probability of inter-vehicular cognitive radio networks**

Ata S. O. , ERDOĞAN E.

INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.33, 2020 (Journal Indexed in SCI)

- **Performance analysis of free space optical communication systems over imprecise Malaga fading channels**

Ibrahim A. A. , Ata S. O. , ERDOĞAN E., Durak-Ata L.

OPTICS COMMUNICATIONS, vol.457, 2020 (Journal Indexed in SCI)

- **On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference**

Erdogan E., KABAOĞLU N., Altunbaş İ., Yanikomeroglu H.
IEEE PHOTONICS JOURNAL, vol.12, 2020 (Journal Indexed in SCI)

- **On the performance of cognitive underlay RF/FSO communication systems with limited feedback**
Erdogan E.
Optics Communications, vol.444, pp.87-92, 2019 (Journal Indexed in SCI)
- **On the performance of cognitive two-way relay networks with multi-user scheduling and shadowing**
Erdogan E., Kabaoglu N., AFANA A., IKKI S.
Physical Communication, vol.35, 2019 (Journal Indexed in SCI)
- **Joint user and relay selection for relay-aided RF/FSO systems over Exponentiated Weibull fading channels**
Erdogan E.
OPTICS COMMUNICATIONS, vol.436, pp.209-215, 2019 (Journal Indexed in SCI)
- **Impact of Co-Channel Interference on Two-Way Relaying Networks with Maximal Ratio Transmission**
Aladwani A., ERDOĞAN E., GÜÇLÜOĞLU T.
ELECTRONICS, vol.8, 2019 (Journal Indexed in SCI)
- **Signal Space Cognitive Cooperation**
ERDOĞAN E., Afana A., Sokun H. U. , Ikki S., Durak-Ata L., Yanikomeroglu H.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, vol.68, pp.1953-1957, 2019 (Journal Indexed in SCI)
- **Performance analysis of two way decode and forward relay network with maximum ratio transmission**
Sahin Y., ERDOĞAN E., GÜÇLÜOĞLU T.
PHYSICAL COMMUNICATION, vol.32, pp.75-80, 2019 (Journal Indexed in SCI)
- **Interference Alignment in Multi-Hop Cognitive Radio Networks under Interference Leakage**
ERDOĞAN E., Colak S. A. , Alakoca H., Namdar M., Basgumus A., Durak-Ata L.
APPLIED SCIENCES-BASEL, vol.8, 2018 (Journal Indexed in SCI)
- **Analysis and Optimization Study of Antenna Selection in Dual Hop Relay Networks over Weibull Fading Channels**
ERDOĞAN E., GÜÇLÜOĞLU T.
WIRELESS PERSONAL COMMUNICATIONS, vol.101, pp.1839-1850, 2018 (Journal Indexed in SCI)
- **Iterative Receiver with Low Complexity for Downlink Multicarrier Communications over Rapidly Time-Varying Channels**
KABAOĞLU N., ERDOĞAN E., AYDIN E.
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, 2018 (Journal Indexed in SCI)
- **Antenna Selection in MIMO Cognitive AF Relay Networks With Mutual Interference and Limited Feedback**
Erdogan E., Afana A., Ikki S., Yanikomeroglu H.
IEEE COMMUNICATIONS LETTERS, vol.21, pp.1111-1114, 2017 (Journal Indexed in SCI)
- **Unified Analysis and Optimization Study of Antenna Selection in Two-Way Relay Networks**
ERDOĞAN E., Afana A., Güçlüoğlu T., Ikki S.
IEEE WIRELESS COMMUNICATIONS LETTERS, vol.5, no.2, pp.216-219, 2016 (Journal Indexed in SCI)
- **Dual-Hop Amplify-and-Forward Multi-Relay Maximum Ratio Transmission**
ERDOĞAN E., Güçlüoğlu T.
JOURNAL OF COMMUNICATIONS AND NETWORKS, vol.18, no.1, pp.19-26, 2016 (Journal Indexed in SCI)
- **Performance Analysis of Maximal Ratio Transmission with Relay Selection in Two-way Relay Networks Over Nakagami-m Fading Channels**
ERDOĞAN E., Güçlüoğlu T.
WIRELESS PERSONAL COMMUNICATIONS, vol.88, no.2, pp.185-201, 2015 (Journal Indexed in SCI Expanded)
- **Simple outage probability bound for two-way relay networks with joint antenna and relay selection over Nakagami-m fading channels**
Erdogan E., GÜÇLÜOĞLU T.
ELECTRONICS LETTERS, vol.51, pp.416-417, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Cognitive AF Relay Networks over Asymmetric Shadowing/Fading Channels in the Presence of Low-**

Rate Feedback

ERDOĞAN E.

Electrica, vol.18, pp.172-176, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **Secrecy Outage Performance of the K-User Cognitive Radio Networks with Iterative Interference Alignment**
Erdoğan E.
IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, İstanbul, Turkey, 5 - 07 September 2019, pp.1-5
- **System Performance of Interference Alignment in MIMO Cognitive Radio Networks under Interference Leakage**
Alakoca H., Ustunbas S., NAMDAR M., BAŞGÜMÜŞ A., ERDOĞAN E., Durak Ata L.
41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 4 - 06 July 2018, pp.569-572
- **Antenna Selection in Cognitive AF systems in the presence of Mutual Primary-Secondary Interference, Limited Feedback and Imperfect Channel Estimations**
ERDOĞAN E., Birol A., KABAOĞLU N., Güçlüoğlu T.
IEEE BlackSeaCom, İstanbul, Turkey, 05 June 2017, pp.1
- **Kanal Kestirim Hatasının Çok Röleli Bilişsel Ağlarda ki Hata Başarım Analizi**
ERDOĞAN E., Birol A., Güçlüoğlu T.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Antalya, Turkey, 15 May 2017, pp.1
- **Error probability performance of channel estimation error on cognitive multi relay networks**
ERDOĞAN E.
Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 24 April 2017, pp.1
- **Multi-Antenna Down-link Cooperative Systems over Composite Multipath/Shadowing Channels**
ERDOĞAN E., Afana A., İkki S.
IEEE WCNC, San Francisco, United States Of America, 21 March 2017, pp.1
- **Quadrature Spatial Modulation for Cooperative MIMO 5G Wireless Networks**
Afana A., ERDOĞAN E., İkki S.
IEEE GLOBECOM, Washington Dc, United States Of America, 04 December 2016, pp.1-5
- **Detect and forward based two-way relay systems with maximum-ratio transceivers**
Şahin Y., ERDOĞAN E., Güçlüoğlu T.
Signal Processing and Communications Applications Conference, Malatya, Turkey, 16 May 2015, pp.1937
- **Outage probability of a cooperative maximum ratio transmission**
ERDOĞAN E., Muşta M., Güçlüoğlu T.
Signal Processing and Communications Applications Conference, Trabzon, Turkey, 23 April 2014, pp.774-777
- **Space time turbo coded OFDM system with transmit and receive antenna selection**
ERDOĞAN E., Piotr R., Güçlüoğlu T.
7th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 01 December 2011
- **Performance of Joint Relay and Antenna Selection for Cooperative Communication with Channel Estimation Errors**
ERDOĞAN E.
MIC-CCA, İstanbul, Turkey, 01 March 2011, pp.1-3
- **Space time coded cooperative communication with joint antenna and relay selection**
ERDOĞAN E., Güçlüoğlu T.
Signal Processing and Communications Applications Conference, Antalya, Turkey, 22 April 2010, pp.507-510
- **İşbirlikli İletişim için En İyi Röle ve Anten Seçimi**
ERDOĞAN E.
Haberleşme Teknolojileri ve Uygulamaları Sempozyumu, İstanbul, Turkey, 04 December 2009, pp.1

Supported Projects

ERDOĞAN E., Project Supported by Higher Education Institutions, Çok Röleli Serbest Uzay Optik Haberleşmesinde RF/FSO Ağlarının Weibull ve Exponentiated Weibull Sönümlmeli Kanallarda Kesinti Olasılığı Performansı, 2018 - 2019
ERDOĞAN E., KABAOĞLU N., Project Supported by Higher Education Institutions, İşbirlikli bilişsel haberleşme sistemlerinin modellenmesi tasarımı ve hata başarıml analizleri, 2017 - 2018
ERDOĞAN E., KABAOĞLU N., BİROL A., GÜÇLÜOĞLU T., Project Supported by Higher Education Institutions, Anten Seçimli İşbirlikli Bilişsel Ağlarda Kanal Kestirim Hatası ve Ortak Kanal Girişimi, 2017 - 2017

Memberships / Tasks in Scientific Organizations

Member, 2012 - Continues

Scientific Refereeing

IETE Technical Review, SCI Journal, April 2017
IEEE Access, SCI Journal, March 2017
Electronics Letters, SCI Journal, January 2017
Turkish Journal of Electrical Engineering and Computer Sciences, National Scientific Refreed Journal, September 2016
IEEE Wireless Communications Letters, SCI Journal, May 2016
EURASIP Journal on Wireless Communications and Networking , SCI Journal, April 2016
IET Communications, SCI Journal, November 2015
IEEE Communications Letters, SCI Journal, September 2015

Invited Congress and Symposium Activities

IEEE WCNC 2014, Attendee, İstanbul, Turkey, 2014
IEEE PIMRC 2010, Attendee, İstanbul, Turkey, 2010

Citations

Total Citations (WOS):40
h-index (WOS):3

Scholarships

TÜBİTAK Doktora sonrası araştırma bursu, TÜBİTAK, 2015 - Continues
Üstün başarı bursu, University, 2011 - Continues
Kadir Has başarı bursu, University, 2010 - Continues
Öğrenim bursu, University, 2004 - Continues