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Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Türkiye 1992 - 1999

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Türkiye 1989 - 1992

Lisans, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Türkiye 1984 - 1988

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Sürekli faz modülasyonunun çok düzeyli kodlanması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, 1999

Yüksek Lisans, Çok-düzeyle kodlama/çok-aşamalı kod çözme tekniğinin incelenmesi ve frekans/faz kaydırmalı anahtarlama modülasyonuna uygulanması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, 1992

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2011 - Devam Ediyor

Doç.Dr., İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2006 - 2011

Yrd.Doç.Dr., İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 1999 - 2006
Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 1992 - 1999

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Outage Probability Analysis of Rate Splitting Multiple Access-Based Hybrid Satellite-Terrestrial Relay Network with Relay Selection**
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- II. **Data-Oriented Downlink RSMA Systems**
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- III. **Hybrid Reflection Modulation**
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- IV. **Comparative Performance Evaluation of LDPC Coded OFDM-IM Under Jamming Attack**
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- V. **Reactive jammer detection in OFDM with index modulation**
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- VI. **On the Performance of UAV Relaying With Reconfigurable Antenna and Media Based Modulation in the Presence of Shadowed Fading**
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- VII. **MIMO Hybrid Satellite-Terrestrial Cooperative Systems With Spatial Modulation**
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- VIII. **Optical Satellite Eavesdropping**
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- IX. **HAPS Selection for Hybrid RF/FSO Satellite Networks**
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IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, cilt.58, sa.4, ss.2855-2867, 2022 (SCI-Expanded)
- X. **Cooperation in Space: HAPS-Aided Optical Inter-Satellite Connectivity With Opportunistic Scheduling**
ERDOĞAN E., Altunbaş İ., Kurt G. K., Yanikomeroglu H.
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- XI. **A Weather-Dependent Hybrid RF/FSO Satellite Communication for Improved Power Efficiency**
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- XII. **The Secrecy Comparison of RF and FSO Eavesdropping Attacks in Mixed RF-FSO Relay Networks**
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IEEE PHOTONICS JOURNAL, cilt.14, sa.1, 2022 (SCI-Expanded)
- XIII. **MBM-Aided Uplink Cooperative NOMA With Hardware Impairments and Imperfect CSI**
Can M., Altunbaş İ., Basar E.
IEEE COMMUNICATIONS LETTERS, cilt.25, sa.6, ss.1830-1834, 2021 (SCI-Expanded)
- XIV. **Coordinate Interleaved Orthogonal Design With Media-Based Modulation**
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- IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.70, sa.3, ss.2867-2871, 2021 (SCI-Expanded)
- XV. **Site Diversity in Downlink Optical Satellite Networks Through Ground Station Selection**
ERDOĞAN E., Altunbaş İ., Karabulut Kurt G. Z., Bellemare M., Lamontagne G., Yanikomeroglu H.
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- XVI. **Low Complexity Adaptation for Reconfigurable Intelligent Surface-Based MIMO Systems**
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- XVII. **NOMA-based downlink relaying with media -based modulation**
Can M., Altunbaş İ., Basar E.
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- XVIII. **Cooperative Space Shift Keying Media-Based Modulation With Hybrid Relaying**
Yarkin F., Altunbaş İ., Basar E.
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- XIX. **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.
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- XX. **STTC design for vehicular communication systems employing fixed-gain AF PLNC over cascaded fading channels**
ATA S. O., Altunbaş İ.
IET COMMUNICATIONS, cilt.12, sa.11, ss.1283-1289, 2018 (SCI-Expanded)
- XXI. **Two-Way Full-Duplex Spatial Modulation Systems With Wireless Powered AF Relaying**
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- XXII. **Space shift keying for multi-hop multi-branch networks**
Yarkin F., Altunbaş İ., Basar E.
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- XXIII. **Relay selection in two-way full-duplex relay networks over Nakagami-m fading channels**
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- XXIV. **Quadrature Channel Modulation**
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- XXV. **Performance analysis of space shift keying for AF relaying with relay selection**
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- XXVI. **Space-Time Channel Modulation**
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- XXVII. **Outage performance of fixed-gain and variable-gain AF full-duplex relaying in non-identical Nakagami-m fading channels**
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- XXVIII. **Source Transmit Antenna Selection for Space Shift Keying With Cooperative Relays**
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- XXIX. **Joint Relay and Antenna Selection in MIMO PLNC Inter-vehicular Communication Systems over Cascaded Fading Channels**
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- XXX. **Fixed-gain AF PLNC over cascaded Nakagami-m fading channels for vehicular communications**

Ata S. O., Altunbaş İ.

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XXXI. A Tutorial on Network Coded Cooperation

Basaran S. T., KURT G. K., Uysal M., Altunbaş İ.

IEEE COMMUNICATIONS SURVEYS AND TUTORIALS, cilt.18, sa.4, ss.2970-2990, 2016 (SCI-Expanded)

XXXII. SER performance of cooperative systems with the Nth best path selection in generalized-K channels

Karademir A., Altunbaş İ.

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, cilt.352, sa.11, ss.4682-4697, 2015 (SCI-Expanded)

XXXIII. Non-orthogonal Amplify and Forward Relay Selection Systems with Distributed Space-Time Trellis Coded Continuous Phase Modulation

Demiroglu A. S., Altunbaş İ., Çelebi M. E.

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XXXIV. Performance analysis of Alamouti scheme with transmit antenna selection in non-identical Nakagami-m fading channels

Coskun A. F., Kucur O., Altunbaş İ.

WIRELESS COMMUNICATIONS & MOBILE COMPUTING, cilt.13, sa.7, ss.671-680, 2013 (SCI-Expanded)

XXXV. Distributed space-time trellis codes with continuous phase modulation for amplify and forward relaying

Demiroglu A. S., Altunbaş İ.

IET COMMUNICATIONS, cilt.7, sa.2, ss.110-118, 2013 (SCI-Expanded)

XXXVI. Performance Analysis of Space-Time Block Codes with Transmit Antenna Selection in Nakagami-m Fading Channels

Coskun A. F., Kucur O., Altunbaş İ.

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XXXVII. Analysis of cooperative MIMO transmission system with transmit antenna selection and selection combining

Karaevli I. L., KURT G. K., Altunbaş İ.

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XXXVIII. Performance analysis of dual-hop fixed-gain AF relaying systems with OSTBC over Nakagami-m fading channels

Altunbaş İ., Yilmaz A., Kucur S. S., Kucur O.

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, cilt.66, sa.10, ss.841-846, 2012 (SCI-Expanded)

XXXIX. Moment generating function-based performance evaluation of amplify-and-forward relaying in N*Nakagami fading channels

Ilhan H., Altunbaş İ., Uysal M.

IET COMMUNICATIONS, cilt.5, sa.3, ss.253-263, 2011 (SCI-Expanded)

XL. Novel Distributed Space-Time Trellis Codes for Relay Systems over Cascaded Rayleigh Fading

Ilhan H., Altunbaş İ., Uysal M.

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XLI. Performance of super-orthogonal space-time trellis codes with transmit antenna selection

Ozdemir O., Altunbaş İ., Bayrak M.

IET COMMUNICATIONS, cilt.4, sa.16, ss.1942-1951, 2010 (SCI-Expanded)

XLII. Cooperative Diversity for Intervehicular Communication: Performance Analysis and Optimization

Ilhan H., Uysal M., Altunbaş İ.

IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.58, sa.7, ss.3301-3310, 2009 (SCI-Expanded)

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- XLIV. **Performance of serially concatenated coding schemes for MIMO systems**
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- XLV. **Space-time trellis codes for MSK**
Altunbas I.
COMPUTERS & ELECTRICAL ENGINEERING, cilt.31, ss.263-271, 2005 (SCI-Expanded)
- XLVI. **Design of serial concatenated MSK schemes based on density evolution**
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- XLVII. **Error performance of serially concatenated space-time coding**
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- XLVIII. **Serial concatenated coding scheme with minimum shift keying**
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- XLIX. **Multilevel coded CPFSK systems for AWGN and fading channels**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Over-the-air beamforming with reconfigurable intelligent surfaces**
YİÇİT Z., BAŞAR E., ALTUNBAŞ İ.
Frontiers Media SA, cilt.3, 2022 (Scopus)
- II. **Implementation of Network Coding in Wireless Systems**
Tedik Başaran S., Heidarpour A. R., Gokceli S., Karabulut Kurt G. Z., UYSAL M., Altunbaş İ.
NETWORK CODING AND SUBSPACE DESIGNS, ss.295-317, 2018 (Hakemli Dergi)
- III. **Tam-Çift-Yönlü AF Röle Seçim Sistemlerinin Nakagami-m Kanallardaki Performansı**
KOÇ A., ALTUNBAŞ İ.
Deu Muhendislik Fakultesi Fen ve Muhendislik, cilt.19, ss.790-807, 2017 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **Implementation of network coding in wireless systems**
TEDİK S., HEİDARPOUR A. R., GOKCELI S., KARABULUT KURT G. Z., UYSAL M., ALTUNBAŞ İ.
Network Coding and Subspace Designs, M. Greferath, M. O. Pavcevic, N. Silberstein, M.A. Vazquez-Castro, Editör, Springer, ss.295-317, 2018

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Rate splitting multiple access-based uplink satellite networks with receive antenna selection**
CAN M., ALTUNBAŞ İ.
IEEE Int. Black Sea Conf. on Commun.and Networking, IEEE BlackSeaCom 2023, İstanbul, Türkiye, 4 - 07 Temmuz 2023
- II. **Outage Probability Analysis of RIS-aided FSO under Exponentiated Weibull Distributed Turbulence**
RIS-Destekli FSO Yapılarında Üstel Weibull Dağılımlı Türbülans Altında Kesinti Olasılığı Analizi
Yuksekdag Y., Altunbaş İ., Hökelek I., Coşkun A. F.

31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Türkiye, 5 - 08 Temmuz 2023

- III. **Outage Probability Analysis of Dual-Hop Multi-HAPS THz Satellite Communication Systems İki Atlamalı Çok HAPS'li THz Uydu Haberleşme Sistemlerinin Kesinti Olasılığı Analizi**
Ahrazoğlu E. S., Can M., Erdoğan E., Altunbaş İ.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Türkiye, 5 - 08 Temmuz 2023
- IV. **Bit interleaved polar code design for higher order modulations (In Turkish)**
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ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI 2022 (ELECO 2022), 24 Kasım 2022
- V. **Physical layer security improvement of NOMA-based UAV-aided terrestrial networks via cooperative user selection (In Turkish)**
BÜYÜKŞAR A. B., CAN M., ALTUNBAŞ İ.
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- VI. **Physical Layer Security Improvement of NOMA-Based UAV-Aided Terrestrial Networks via Cooperative User Selection**
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- VII. **Distributed spatial modulation for unmanned aerial vehicle-base station to ground cooperative communication**
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- VIII. **Error Performance Analysis of Distributed Spatial Modulation System with UAV Relays**
BÜYÜKŞAR A. B., CAN M., ALTUNBAŞ İ.
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- IX. **SimMBM Channel Simulator for Media-Based Modulation Systems**
YİĞİT Z., BAŞAR E., ALTUNBAŞ İ.
IEEE International Symposium on Personal, Indoor and Mobile Radio Communications 2021, 13 - 16 Eylül 2021
- X. **NOMA-Based Two-Way MBM**
CAN M., ALTUNBAŞ İ.
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- XI. **Physical Layer Security Framework for Optical Non-Terrestrial Networks (Invited paper)**
Ben Yahia O., ERDOĞAN E., Karabulut Kurt G. Z., Altunbaş İ., Yanikomeroglu H.
28th International Conference on Telecommunications (ICT), ELECTR NETWORK, 1 - 03 Haziran 2021, ss.162-166
- XII. **OFDM-IM performance evaluation under jamming attack**
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- XIII. **LDPC Coded OFDM-IM Performance Evaluation Under Jamming Attack**
KAPLAN A., CAN M., ALTUNBAŞ İ., KARABULUT KURT G. Z., KÜÇÜKYAVUZ D.
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- XIV. **A media-based modulation communication system implementation using universal software radio peripheral**
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- XV. **Circular Space-Time Block Code Design for Ultra-Reliable Index Modulation Schemes**
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- XVI. **Media-Based Modulation Assisted Non-Orthogonal Multiple Access**

CAN M., ALTUNBAŞ İ., BAŞAR E.

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XVII. Fractional Media-Based Modulation with Golden Angle Modulation

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XVIII. Multi-hop space shift keying with partial relay selection (In Turkish)

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XIX. Multi-Hop Space Shift Keying with Partial Relay Selection

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26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018

XX. Two-way Space Shift Keying with Relay Selection

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XXI. Performance Analysis of Source Transmit Antenna Selection In Space Shift Keying With Cooperative Amplify-and-Forward Relaying

Yarkin F., Altunbaş İ., Başar E.

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XXIII. Space Shift Keying with Full Duplex Amplify and Forward Relaying

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XXV. Performance analysis of full-duplex spatial-modulated communication systems

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XXVI. Error performance analysis of multi-hop space shift keying with transmit antenna selection

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- XXIX. **Performance analysis of full-duplex spatial-modulated communication systems (In Turkish)**
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- XXX. **Error performance analysis of multi-hop space-shift keying with transmit antenna selection (In Turkish)**
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- XXXI. **Full-Duplex Spatial Modulation Systems Under Imperfect Channel State Information**
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- XXXII. **Unified outage performance analysis of two-way/one-way full-duplex/half-duplex fixed-gain AF relay systems**
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- XXXIII. **Outage probability of full-duplex fixed-gain AF relaying in Rayleigh fading channels**
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