Prof. İbrahim Altunbaş

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Biography

İbrahim Altunbaş was born in Sütçüler, Isparta, Turkey, in 1967. He received the B.Sc., M.Sc. and Ph.D. degrees, all in electronics and communication engineering, from the Istanbul Technical University, Istanbul, Turkey, in 1988, 1992 and 1999, respectively. From 1992 to 1999, he was a Research Assistant, from 1999 to 2006, he was an Assistant Professor and from 2006 to 2011 he was an Associate Professor at the Istanbul Technical University. He is currently a Professor at the same university. Between January 2001 - November 2001, he was a Visiting Researcher at Texas A&M University, USA. Between November 2001 - September 2002 and June 2015 - August 2015, he was a Postdoctoral Fellow and a Visiting Researcher, respectively at the University of Ottawa, Canada. His research interests include digital communications, information theory, error control coding and modulation, turbo coding, LDPC coding, iterative decoding, MIMO systems, space-time coding, cooperative communication, network coding, spatial modulation, full-duplex communication and channel modulation.

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Turkey 1992 - 1999
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği Anabilim Dalı, Turkey 1989 - 1992
Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1984 - 1988

Foreign Languages

English

Dissertations

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

Postgraduate, Çok-düzeyli 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

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2011 - Continues
Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2006 - 2011
Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 1999 - 2006
Research Assistant, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 1992 - 1999

Published journal articles indexed by SCI, SSCI, and AHCI

I.   **Outage Probability Analysis of Rate Splitting Multiple Access-Based Hybrid Satellite-Terrestrial Relay Network with Relay Selection**
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XI.   **A Weather-Dependent Hybrid RF/FSO Satellite Communication for Improved Power Efficiency**
Yahia O. B., ERDOĞAN E., Karabulut Kurt G. Z., Altunbaş İ., Yanikomeroglu H.
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XX.   **STTC design for vehicular communication systems employing fixed-gain AF PLNC over cascaded fading channels**
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Karademir A., Altunbaş İ.
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Demiroglu A. S., Altunbaş İ., Çelebi M. E.
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Demiroglu A. S., 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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Altunbaş İ., Yilmaz A., Kucur S. S., Kucur O.
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XXXIX. **Moment generating function-based performance evaluation of amplify-and-forward relaying in N*Nakagami fading channels**
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Altunbas I., AYGOLU U.
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Articles Published in Other Journals

I. **Over-the-air beamforming with reconfigurable intelligent surfaces**
YİĞİT Z., BAŞAR E., ALTUNBAŞ İ.
Frontiers Media SA, vol.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, pp.295-317, 2018 (Peer-Reviewed Journal)

III. **Tam-Çift-Yönlü AF Röle Seçim Sistemlerinin Nakagami-m Kanallardaki Performansı**
KOÇ A., ALTUNBAŞ İ.
Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.19, pp.790-807, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

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

Refereed Congress / Symposium Publications in Proceedings

I. **Rate splitting multiple access-based uplink satellite networks with receive antenna selection**
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II. **Outage Probability Analysis of RIS-aided FSO under Exponentiated Weibull Distributed Turbulence RIS-Destekli FSO Yapilarinda Üstel Weibull Dağilimli Türbülans Altinda Kesinti Olasiliği Analizi**
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III. **Outage Probability Analysis of Dual-Hop Multi-HAPS THz Satellite Communication Systems Iki Atlamali Çok HAPS'li THz Uydu Haberleşme Sistemlerinin Kesinti Olasiliği Analizi**
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Scientific Research / Working Group Memberships

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