

# Dr.Öğr.Üyesi Ferkan YILMAZ

## Kişisel Bilgiler

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## Biyografi

Ferkan YILMAZ, PhD is a *researcher and tech-entrepreneur* having more than 15-year experience in technology development. Since November, 2015, he is an assistant professor at Yıldız Technical University. He has also engaged in “*Alpharabius Solutions*” and “*Tachyonic Solutions*” research-based startup companies. He is the (co-)author of more than 80 scientific publications in peer-reviewed journals and conferences. His publications have been cited more than 2170 as shown in *Google Scholar*. His research has been lying at the interface of mathematics, algorithms, statistics, information and communication sciences, with a special focus on the applications of complex special function theory and stochastic (random) processes to communication sciences. In the field of wireless communications, he is one of the pioneers of using Fox-H function and developing MGF-based approaches to achieve the performance analysis of wireless communications.

## Eğitim Bilgileri

Post Doktora, King Abdullah University of Science and Technology, Computer, Electrical and Mathematical Science and Engineering, Computer, Electrical and Mathematical Science and Engineering Program, Suudi Arabistan 2009 - 2012  
Post Doktora, Texas A&M University, Electrical and Computer Engineering, Communications Engineering, Türkiye 2008 - 2009

Doktora, Gebze Teknik Üniversitesi, Mühendislik Fakültesi, Elektronik Mühendisliği Bölümü, Türkiye 2003 - 2009

Yüksek Lisans, İstanbul Teknik Üniversitesi (İTÜ), Elektrik-Elektronik Fakültesi / Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği, Türkiye 1998 - 2003

Lisans, Yıldız Teknik Üniversitesi (YTÜ), Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Türkiye 1993 - 1997

## Yabancı Diller

İngilizce, C1 İleri

Japonca, B1 Orta

Almanca, A1 Başlangıç

## Yaptığı Tezler

Doktora, Analysis of Communication Systems in Generalized Fading Channels, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2009

Yüksek Lisans, Interleaver Design for Turbo Codes, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2002

## Araştırma Alanları

Haberleşme Mühendisliği, Sinyal İşleme, Haberleşme ve Ağ Protokolleri , Veri Yönlendirme, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma, İstatistik, Olasılık Kuramı, Stokastik Süreçler

## Akademik Unvanlar / Görevler

Yrd.Doç.Dr., Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Bilgisayar Mühendisliği, 2015 - Devam Ediyor  
Uzman Dr., King Abdullah University of Science and Technology, Computer, Electrical and Mathematical Science and Engineering Division, Computer, Electrical and Mathematical Science and Engineering, 2009 - 2012  
Araştırma Görevlisi, Texas A&M Üniversitesi, Electrical and Computer Engineering, Electrical and Computer Engineering Program, 2008 - 2009

## Mesleki Deneyim

Genel Müdür, TELCOMOBİL Telekomünikasyon Elektronik Bilgisayar Teknolojileri A.Ş., Lokasyon Bazlı Teknolojiler, 2019 - Devam Ediyor  
Uzman, Türkiye Cumhuriyeti Adalet Bakanlığı, Adli Tıp Kurumu, İstanbul Adli Tıp Başkanlığı, 2018 - 2019  
Kıdemli Telekomünikasyon Uzmanı, Vodafone IT Teknoloji, Location Based Services, 2012 - 2015  
Uzman Telekomünikasyon Yazılımı Geliştirici ve Takım Lideri, Vodafone IT Teknoloji, SS7 Sinyal Ağ Geçidi ve Katma Değerli Hizmetler, 2004 - 2008  
Uzman Araştırmacı, TUBITAK - The Scientific and Technological Research Council of Turkey, Ulusal Elektronik ve Kriptoloji Araştırma Enstitüsü, 1998 - 2003

## Verdiği Dersler

Çok Değişkenli İstatiksel Veri Analizi, Doktora, 2017 - 2018, 2019 - 2020  
Ayrık Olay Simülasyonu, Lisans, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020  
Hesaplama Kuramı, Lisans, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020  
Olasılık, Rastgele Değişkenler ve Stokastik Prosesler, Yüksek Lisans, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021  
Bilgisayar Mühendisleri için Sinyaller ve Sistemler, Lisans, 2018 - 2019, 2019 - 2020  
İstatistik ve Olasılık Hesapları, Lisans, 2016 - 2017, 2017 - 2018  
Sayısal İşaret İşleme, Lisans, 2016 - 2017, 2017 - 2018

## Yönetilen Tezler

Yılmaz F., Tekrarlayan Sinir Ağlarında Beklenen Genelleştirilmiş Hatanın Üst Performans Sınırı, Doktora, K.Kebabcı(Öğrenci), Devam Ediyor  
Yılmaz F., A new definition of expected transmission count as an ad-hoc network routing information, Yüksek Lisans, M.MOHAMMED(Öğrenci), 2017

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **McLeish Distribution: Performance of Digital Communications Over Additive White McLeish Noise (AWMN) Channels**  
Yılmaz F.  
IEEE ACCESS, cilt.8, ss.19133-19195, 2020 (SCI İndekslerine Giren Dergi)
- **On the Relationships Between Average Channel Capacity, Average Bit Error Rate, Outage probability and Outage Capacity over Additive White Gaussian Noise Channels**  
Yılmaz F.  
IEEE Transactions On Communications, cilt.68, ss.2763-2776, 2020 (SCI Expanded İndekslerine Giren Dergi)
- **On the asymptotic analysis of the high-order statistics of the channel capacity over generalized fading channels**  
Yılmaz F.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.28, no.1, ss.362-379,

2020 (SCI İndekslerine Giren Dergi)

- **A novel and unified approach for averaged channel capacity and averaged effective capacity analyses of diversity combining and multihop transmission schemes in flat fading environments**  
YILMAZ F., Alouini M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.27, ss.106-119, 2019 (SCI İndekslerine Giren Dergi)
- **New results on the sum of Gamma random variates with application to the performance of wireless communication systems over Nakagami-m fading channels**  
Ansari I. S. , Yilmaz F., Alouini M., Kucur O.  
TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, cilt.28, 2017 (SCI İndekslerine Giren Dergi)
- **Performance Analysis of Free-Space Optical Links Over Malaga (M) Turbulence Channels With Pointing Errors**  
Ansari I. S. , Yilmaz F., Alouini M.  
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.15, ss.91-102, 2016 (SCI İndekslerine Giren Dergi)
- **Heterogeneous next-generation wireless network interference model-and its applications**  
Mahmood N. H. , Yilmaz F., Alouini M., Oien G. E.  
TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, cilt.25, ss.563-575, 2014 (SCI İndekslerine Giren Dergi)
- **A Generic Interference Model for Uplink OFDMA Networks With Fractional Frequency Reuse**  
Tabassum H., Dawy Z., Alouini M. S. , Yilmaz F.  
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.63, ss.1491-1497, 2014 (SCI İndekslerine Giren Dergi)
- **On the Computation of the Higher Order Statistics of the Channel Capacity for Amplify-and-Forward Multihop Transmission**  
Yilmaz F., Tabassum H., Alouini M.  
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.63, ss.489-494, 2014 (SCI İndekslerine Giren Dergi)
- **Error Rates of M-PAM and M-QAM in Generalized Fading and Generalized Gaussian Noise Environments**  
Soury H., Yilmaz F., Alouini M.  
IEEE COMMUNICATIONS LETTERS, cilt.17, ss.1932-1935, 2013 (SCI İndekslerine Giren Dergi)
- **A Statistical Model of Uplink Inter-Cell Interference with Slow and Fast Power Control Mechanisms**  
Tabassum H., Yilmaz F., Dawy Z., Alouini M.  
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.61, ss.3953-3966, 2013 (SCI İndekslerine Giren Dergi)
- **On Hybrid Cooperation in Underlay Cognitive Radio Networks**  
Mahmood N. H. , Yilmaz F., Oien G. E. , Alouini M.  
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.12, ss.4422-4433, 2013 (SCI İndekslerine Giren Dergi)
- **Impact of Pointing Errors on the Performance of Mixed RF/FSO Dual-Hop Transmission Systems**  
Ansari I. S. , Yilmaz F., Alouini M.  
IEEE WIRELESS COMMUNICATIONS LETTERS, cilt.2, ss.351-354, 2013 (SCI İndekslerine Giren Dergi)
- **A Framework for Uplink Intercell Interference Modeling with Channel-Based Scheduling**  
Tabassum H., Yilmaz F., Dawy Z., Alouini M.  
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.12, ss.206-217, 2013 (SCI İndekslerine Giren Dergi)
- **On the Performance of Transmit Antenna Selection Based on Shadowing Side Information**  
Yilmaz A., Yilmaz F., Alouini M., Kucur O.  
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.62, ss.454-460, 2013 (SCI İndekslerine Giren Dergi)
- **On the Computation of the Higher-Order Statistics of the Channel Capacity over Generalized Fading Channels**  
Yilmaz F., Alouini M.  
IEEE WIRELESS COMMUNICATIONS LETTERS, cilt.1, ss.573-576, 2012 (SCI İndekslerine Giren Dergi)
- **Capacity limits of spectrum-sharing systems over hyper-fading channels**

Ekin S., Yılmaz F., Celebi H., Qaraqe K. A. , Alouini M., Serpedin E.

WIRELESS COMMUNICATIONS & MOBILE COMPUTING, cilt.12, ss.1471-1480, 2012 (SCI İndekslerine Giren Dergi)

- **A Novel Unified Expression for the Capacity and Bit Error Probability of Wireless Communication Systems over Generalized Fading Channels**  
Yılmaz F., Alouini M.  
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.60, ss.1862-1876, 2012 (SCI İndekslerine Giren Dergi)
- **Average Bit Error Probability of Binary Coherent Signaling over Generalized Fading Channels Subject to Additive Generalized Gaussian Noise**  
Soury H., Yılmaz F., Alouini M.  
IEEE COMMUNICATIONS LETTERS, cilt.16, ss.785-788, 2012 (SCI İndekslerine Giren Dergi)
- **A Unified MGF-Based Capacity Analysis of Diversity Combiners over Generalized Fading Channels**  
Yılmaz F., Alouini M.  
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.60, ss.862-875, 2012 (SCI İndekslerine Giren Dergi)
- **A New Formula for the BER of Binary Modulations with Dual-Branch Selection over Generalized-K Composite Fading Channels**  
Ansari I. S. , Al-Ahmadi S., Yılmaz F., Alouini M., Yanikomeroglu H.  
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.59, ss.2654-2658, 2011 (SCI İndekslerine Giren Dergi)
- **Performance of Equal Gain Combining with Quantized Phases in Rayleigh Fading Channels**  
Rizvi U. H. , Yılmaz F., Alouini M., Janssen G. J. M. , Weber J. H.  
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.59, ss.13-18, 2011 (SCI İndekslerine Giren Dergi)
- **Symbol Error Rate Performance of QS-CDMA over Frequency Selective Time Non-Selective Multipath Generalized Gamma Fading Channels**  
Yılmaz F., Kucur O.  
WIRELESS PERSONAL COMMUNICATIONS, cilt.49, ss.487-516, 2009 (SCI İndekslerine Giren Dergi)
- **Performance of quasisynchronous scale time code division multiple access for AWGN channel**  
Yılmaz F., Kucur O.  
COMPUTERS & ELECTRICAL ENGINEERING, cilt.34, ss.38-52, 2008 (SCI İndekslerine Giren Dergi)

## Diğer Dergilerde Yayınlanan Makaleler

- **On the analysis of secrecy outage probability using average channel capacity**  
Yılmaz F.  
Sakarya University Journal Of Science, cilt.1, no.1, ss.1-9, 2020 (Hakemli Üniversite Dergisi)
- **Performance of amplify-and-forward multihop transmission over relay clusters with different routing strategies**  
Yılmaz F., Khan F. A. , Alouini M.  
International Journal of Autonomous and Adaptive Communications Systems, cilt.7, ss.110-127, 2014 (Diğer Kurumların Hakemli Dergileri)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Vehicle Location Estimation Using Air Pressure Measurements**  
YILMAZ F., Chatip G.  
IEEE Signal Processing and Communications Applications Conference, İzmir, Türkiye, 02 Mayıs 2018, cilt.1, no.1, ss.1-10
- **On the Bit-Error Rate of Binary Phase Shift Keying over Additive White Generalized Laplacian Noise (AWGLN) Channels**  
YILMAZ F., Alouini M.  
IEEE Signal Processing and Communications Applications Conference, İzmir, Türkiye, 02 Mayıs 2018, cilt.1, no.1, ss.1-10
- **A Useful Lemma for Bit Error Rate of the Noise Imbalanced MRC Combining over Correlated and**

## **Uncorrelated Fading Channels**

YILMAZ F., Alouini M.

IEEE Signal Processing and Communications Applications Conference, İzmir, Türkiye, 02 Mayıs 2018, cilt.1, no.1, ss.1-10

- **On the Concepts and Challenges of Flying Ad hoc Networks (FANET)**

Jasim M. M. , YILMAZ F.

International Conference on Advances in Science (ICAS 2016), İstanbul, Türkiye, 31 Ağustos 2016, cilt.1, no.1, ss.1-12

- **On the error performance bounds of positioning using RSSI-based fingerprints**

Doğan S., YILMAZ F., Erturk S.

01 Mayıs 2015

- **Performance analysis of FSO links over unified Gamma-Gamma turbulence channels**

Ansari I. S. , Yilmaz F., Alouini M.

81st IEEE Vehicular Technology Conference, VTC Spring 2015, Glasgow, İngiltere, 11 - 14 Mayıs 2015, cilt.2015

- **Performance analysis of digital communication systems over amplify-and-forward multihop relay channels**

YILMAZ F., Khan F. A. , Alouini M.

01 Kasım 2014, cilt.7, ss.110

- **Novel MGF-based Expressions for the Average Bit Error Probability of Binary Signalling over Generalized Fading Channels**

Yilmaz F., Alouini M.

IEEE Wireless Communications and Networking Conference (WCNC), İstanbul, Türkiye, 6 - 09 Nisan 2014, ss.1121-1125

- **On the performance of mixed RF/FSO dual-hop transmission systems**

Ansari I. S. , Yilmaz F., Alouini M.

2013 IEEE 77th Vehicular Technology Conference, VTC Spring 2013, Dresden, Almanya, 2 - 05 Haziran 2013

- **On the sum of squared  $\eta$ - $\mu$  random variates with application to the performance of wireless communication systems**

Ansari I. S. , Yilmaz F., Alouini M.

2013 IEEE 77th Vehicular Technology Conference, VTC Spring 2013, Dresden, Almanya, 2 - 05 Haziran 2013

- **On the performance of mixed RF/FSO variable gain dual-hop transmission systems with pointing errors**

Ansari I. S. , Yilmaz F., Alouini M.

2013 IEEE 78th Vehicular Technology Conference, VTC Fall 2013, Las Vegas, NV, Amerika Birleşik Devletleri, 2 - 05 Eylül 2013

- **Resource allocation based uplink intercell interference model in multi-carrier networks**

Tabassum H., Yilmaz F., Dawy Z., Alouini M.

2013 IEEE 77th Vehicular Technology Conference, VTC Spring 2013, Dresden, Almanya, 2 - 05 Haziran 2013

- **On the performance of hybrid RF and RF/FSO fixed gain dual-hop transmission systems**

Ansari I. S. , Alouini M., Yilmaz F.

2013 Saudi International Electronics, Communications and Photonics Conference, SIEPC 2013, Riyadh, Suudi Arabistan, 27 - 30 Nisan 2013

- **On the Performance of Hybrid RF and RF/FSO Dual-Hop Transmission Systems**

Ansari I. S. , Yilmaz F., Alouini M.

2nd International Workshop on Optical Wireless Communications (IWOW), Newcastle-Upon-Tyne, İngiltere, 21 Ekim 2013, ss.45-46

- **A novel ergodic capacity analysis of diversity combining and multihop transmission systems over generalized composite fading channels**

Yilmaz F., Alouini M.

2012 IEEE International Conference on Communications, ICC 2012, Ottawa, Kanada, 10 - 15 Haziran 2012, ss.4605-4610

- **Cognitive Interference Modeling with Applications in Power and Admission Control**

Mahmoodh N. H. , Yilmaz F., Alouini M., Oien G. E.

IEEE International Symposium on Dynamic Spectrum Access Networks, Washington, Amerika Birleşik Devletleri,

16 - 19 Ekim 2012, ss.434-439

- **On the Modeling of Uplink Inter-Cell Interference based on Proportional Fair Scheduling**  
Tabassum H., Yilmaz F., Dawy Z., Alouini M. S.  
IEEE Wireless Communications and Networking Conference (WCNC), Paris, Fransa, 1 - 04 Nisan 2012, ss.317-321
- **Higher Order Capacity Statistics of Multi-hop Transmission Systems over Rayleigh Fading Channels**  
Yilmaz F., Tabassum H., Alouini M.  
16th IEEE Mediterranean Electrotechnical Conference (MELECON), Hammamet, Tunus, 25 - 28 Mart 2012, ss.1042-1044
- **On the Sum of Gamma Random Variates With Application to the Performance of Maximal Ratio Combining over Nakagami-m Fading Channels**  
Ansari I. S. , Yilmaz F., Alouini M., Kucur O.  
13th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cesme, Türkiye, 17 - 20 Haziran 2012, ss.394-398
- **Novel Asymptotic Results on the High-Order Statistics of the Channel Capacity over Generalized Fading Channels**  
Yilmaz F., Alouini M.  
13th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cesme, Türkiye, 17 - 20 Haziran 2012, ss.389-393
- **Novel relations between the ergodic capacity and the average bit error rate**  
Yilmaz F., Alouini M.  
2011 8th International Symposium on Wireless Communication Systems, ISWCS'11, Aachen, Almanya, 6 - 09 Kasım 2011, ss.789-793
- **Transmit antenna selection based on shadowing side information**  
Yilmaz F., Yilmaz A., Alouini M., Kucur O.  
2011 IEEE 73rd Vehicular Technology Conference, VTC2011-Spring, Budapest, Macaristan, 15 - 18 Mayıs 2011
- **On the average capacity and bit error probability of wireless communication systems**  
Yilmaz F., Alouini M.  
54th Annual IEEE Global Telecommunications Conference: "Energizing Global Communications", GLOBECOM 2011, Houston, TX, Amerika Birleşik Devletleri, 5 - 09 Aralık 2011
- **Partial relay selection based on shadowing side information over generalized composite fading channels**  
Yilmaz F., Alouini M.  
2011 8th International Symposium on Wireless Communication Systems, ISWCS'11, Aachen, Almanya, 6 - 09 Kasım 2011, ss.367-371
- **On the statistics of uplink inter-cell interference with greedy resource allocation**  
Tabassum H., Yilmaz F., Dawy Z., Alouini M. S.  
2011 8th International Symposium on Wireless Communication Systems, ISWCS'11, Aachen, Almanya, 6 - 09 Kasım 2011, ss.735-739
- **On the ergodic capacity of legacy systems in the presence of next generation interference**  
Mahmood N. H. , Yilmaz F., Alouini M., Øien G. E.  
2011 8th International Symposium on Wireless Communication Systems, ISWCS'11, Aachen, Almanya, 6 - 09 Kasım 2011, ss.462-466
- **An exact closed-form expression for the BER of binary modulations with dual-branch selection over generalized-K fading**  
Ansari I. S. , Al-Ahmadi S., Yilmaz F., Alouini M., Yanikomeroğlu H.  
2011 IEEE 73rd Vehicular Technology Conference, VTC2011-Spring, Budapest, Macaristan, 15 - 18 Mayıs 2011
- **A GENERALIZED AND PARAMETERIZED INTERFERENCE MODEL FOR COGNITIVE RADIO NETWORKS**  
Mahmood N. H. , Yilmaz F., Alouini M.  
12th IEEE International Workshop on Signal Processing Advances in Wireless Communications, San-Francisco, Kostarika, 26 - 29 Haziran 2011, ss.76-80
- **Generalized Routing Protocols for Multihop Relay Networks**  
Khan F. A. , Yilmaz F., Alouini M.  
7th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC), İstanbul, Türkiye, 4 -

08 Temmuz 2011, ss.754-759

- **A novel framework on exact average symbol error probabilities of multihop transmission over amplify-and-forward relay fading channels**  
Yılmaz F., Kucur O., Alouini M.  
2010 7th International Symposium on Wireless Communication Systems, ISWCS'10, York, İngiltere, 19 - 22 Eylül 2010, ss.546-550
- **A new simple model for composite fading channels: Second order statistics and channel capacity**  
Yılmaz F., Alouini M.  
2010 7th International Symposium on Wireless Communication Systems, ISWCS'10, York, İngiltere, 19 - 22 Eylül 2010, ss.676-680
- **Outage capacity of multicarrier systems**  
Yılmaz F., Alouini M.  
2010 17th International Conference on Telecommunications, ICT 2010, Doha, Qatar, 4 - 07 Nisan 2010, ss.260-265
- **A unified framework for the statistical characterization of the SNR of amplify-and-forward multihop channels**  
Yılmaz F., Kucur Ö., Alouini M.  
2010 17th International Conference on Telecommunications, ICT 2010, Doha, Qatar, 4 - 07 Nisan 2010, ss.324-330
- **An MGF-based Capacity Analysis of Equal Gain Combining over Fading Channels**  
Yılmaz F., Alouini M.  
21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), İstanbul, Türkiye, 26 - 30 Eylül 2010, ss.945-950
- **Selection combining with quantized channel phase compensation over Rayleigh fading**  
Rizvi U. H. , YILMAZ F., Alouini M., Janssen G. J. M. , Weber J. H.  
01 Ocak 2010, ss.216
- **Exact Capacity Analysis of Multihop Transmission over Amplify-and-Forward Relay Fading Channels**  
Yılmaz F., Kucur O., Alouini M.  
21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), İstanbul, Türkiye, 26 - 30 Eylül 2010, ss.2293-2298
- **Product of the powers of generalized Nakagami-m variates and performance of cascaded fading channels**  
Yılmaz F., Alouini M.  
2009 IEEE Global Telecommunications Conference, GLOBECOM 2009, Honolulu, HI, Amerika Birleşik Devletleri, 30 Kasım - 04 Aralık 2009
- **The m-n distribution - A new closed-form physical channel fading model and performance of M-ary modulations**  
Yılmaz F., Kucur O.  
2009 European Wireless Conference, EW 2009, Aalborg, Danimarka, 17 - 20 Mayıs 2009, ss.21-25
- **Product of shifted exponential variates and outage capacity of multicarrier systems**  
Yılmaz F., Alouini M.  
2009 European Wireless Conference, EW 2009, Aalborg, Danimarka, 17 - 20 Mayıs 2009, ss.282-286
- **Achievable capacity of a spectrum sharing system over hyper fading channels**  
Ekin S., Yılmaz F., Celebi H., Qaraqe K. A. , Alouini M., Serpedin E.  
2009 IEEE Global Telecommunications Conference, GLOBECOM 2009, Honolulu, HI, Amerika Birleşik Devletleri, 30 Kasım - 04 Aralık 2009
- **Performance of equal gain combining for quantized estimates of Rayleigh fading channels**  
Rizvi U. H. , Yılmaz F., Alouini M., Janssen G. J. M. , Weber J. H.  
2009 European Wireless Conference, EW 2009, Aalborg, Danimarka, 17 - 20 Mayıs 2009, ss.16-20
- **Sum of Weibull variates and performance of diversity systems**  
Yılmaz F., Alouini M.  
2009 ACM International Wireless Communications and Mobile Computing Conference, IWCMC 2009, Leipzig, Almanya, 21 - 24 Haziran 2009, ss.247-252
- **Multihop-based Turbo coding**  
YILMAZ F., Alouini M.

01 Ekim 2009

- **Product of shifted Gamma variates and outage capacity of multicarrier systems**

YILMAZ F., Alouini M.

01 Mayıs 2009

- **Performance of RF level diversity combining with quantized channel estimates over Rayleigh fading**

Rivzi U. H. , YILMAZ F., Alouini M., Janssen G. J. M. , Weber J. H.

01 Mayıs 2009

- **Exact performance of wireless multihop transmission for M-ary coherent modulations over generalized gamma fading channels**

Yılmaz F., Kucur O.

2008 IEEE 19th International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2008, Poznan, Polonya, 15 - 18 Eylül 2008

- **Cooperative uplink VG-CDMA over frequency selective generalized Gamma slowly fading channels**

YILMAZ F., Kucur O.

01 Haziran 2007, ss.1-4

- **Analysis of QS-CDMA for M-ary signaling over frequency selective generalized Gamma slowly fading channels**

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01 Haziran 2007, ss.1-4

- **Analysis of QS-CDMA over frequency selective time non-selective Nakagami-m fading channels**

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01 Nisan 2006, ss.1-4

- **High speed Turbo codes using less memory size**

YILMAZ F.

01 Temmuz 2003, ss.457-460

- **Hybrid interleaver design for Turbo codes**

YILMAZ F., Aygözü Ü.

01 Temmuz 2002, ss.158-164

## Diğer Yayınlar

- **Extended Generalized-K (EGK): A new simple and general model for composite fading channels**

YILMAZ F., Alouini M.

Diğer, 2012

- **An Intercell Interference Model based on Scheduling for Future Generation Wireless Networks (Part 1 and Part 2)**

Tabassum H., YILMAZ F., Alouini M.

Diğer, 2012

- **Exact performance analysis of partial relay selection based on shadowing side information over generalized composite fading channels**

YILMAZ F., Alouini M.

Diğer, 2011

## Bilimsel Dergilerdeki Faaliyetler

Frontiers in Communications and Networks, Yardımcı Editör, 2020 - Devam Ediyor

## Bilimsel Kuruluşlardaki Üyelikler / Görevler

IEEE Information Theory Society Membership, Üye, 2009 - Devam Ediyor , Amerika Birleşik Devletleri

IEEE Communications Society Membership, Üye, 2009 - Devam Ediyor , Amerika Birleşik Devletleri



## Bilimsel Danışmalıklar

Adalet Bakanlığı, Adli Tıp Kurumu, Adli Bilişim İhtisas Dairesi , Kurum veya Organizasyonlar İçin Yapılan Danışmanlık, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Bilgisayar Mühendisliği, Türkiye, 2018 - 2019

## Etkinlik Organizasyonlarındaki Görevler

Yılmaz F., Technical Program Committee (TPC) Member in "The International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2020)", Bilimsel Kongre / Sempozyum Organizasyonu, Bahreyn, Aralık 2020

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE Global Communications Conference (GLOBECOM 2020): Wireless Communications Symposium", Bilimsel Kongre / Sempozyum Organizasyonu, Taipei, Tayvan, Aralık 2020

Yılmaz F., Technical Program Committee (TPC) Member in "International Conference on Artificial Intelligence & Modern Assistive Technology (ICAIMAT'20)", Bilimsel Kongre / Sempozyum Organizasyonu, Ar-Riyad, Suudi Arabistan, Kasım 2020

Yılmaz F., Technical Program Committee (TPC) Member in "The Second International Conference on Big Data and Advanced Wireless Technologies (BDAW 2020)", Bilimsel Kongre / Sempozyum Organizasyonu, London, İngiltere, Temmuz 2020

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE Global Communications Conference (GLOBECOM 2019)", Bilimsel Kongre / Sempozyum Organizasyonu, Hawaii, Amerika Birleşik Devletleri, Aralık 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE Middle East & North Africa Communications Conference (MENACOMM'19)", Bilimsel Kongre / Sempozyum Organizasyonu, Al-Manamah, Bahreyn, Kasım 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 International Conference on Industry 4.0, Artificial Intelligence and Communications Technology", Bilimsel Kongre / Sempozyum Organizasyonu, Balikpapan, Endonezya, Temmuz 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE GCC Conference and Exhibition", Bilimsel Kongre / Sempozyum Organizasyonu, Al-Kuwayt, Kuveyt, Nisan 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2018 IEEE Global Communications Conference (GLOBECOM 2018)", Bilimsel Kongre / Sempozyum Organizasyonu, Abu Dhabi, Birleşik Arap Emirlikleri, Aralık 2018

Yılmaz F., Technical Program Committee (TPC) Member in "The 2018 International Conference on Internet of Things and Intelligence System (IoTALS 2018)", Bilimsel Kongre / Sempozyum Organizasyonu, Balikpapan, Endonezya, Kasım 2018

Yılmaz F., Technical Program Committee (TPC) Member in "The 2017 IEEE Global Communications Conference (GLOBECOM 2017)", Bilimsel Kongre / Sempozyum Organizasyonu, Singapore, Singapur, Aralık 2017

Yılmaz F., Technical Program Committee (TPC) Member in "The 13th International Wireless Communications and Mobile Computing Conference (IWCMC 2017): 5G workshop", Bilimsel Kongre / Sempozyum Organizasyonu, Valencia, İspanya, Haziran 2017

Yılmaz F., Technical Program Committee (TPC) Member in "The 2011 7th International Wireless Communications and Mobile Computing Conference (IWCMC 2011)", Bilimsel Kongre / Sempozyum Organizasyonu, İstanbul, Türkiye, Temmuz 2011

## Atıflar

Toplam Atıf Sayısı (WOS):1019

h-indeksi (WOS):13

## Girişimcilik Faaliyetleri

