

Doç.Dr. Ferkan Yılmaz

Kişisel Bilgiler

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Yoksis Araştırmacı ID: 240084

Eğitim Bilgileri

Doktora, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Türkiye 2003 - 2009

Yüksek Lisans, İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, Türkiye 2000 - 2002

Lisans, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Hab.Müh.Böl, Türkiye 1993 - 1997

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Haberleşme sistemlerinin genelleştirilmiş sönümlemeli kanallarda analizi, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2009

Yüksek Lisans, Turbo kodlar için serpiştirici tasarımı, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2002

Araştırma Alanları

Haberleşme Mühendisliği, Bilgi Kuramı, Haberleşme Ağları, Haberleşme Sistem Kuramı, Kablosuz İletişim, Kuantum Haberleşme, Optik Haberleşme

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Teknik Üniversitesi, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2022 - Devam Ediyor

Verdiği Dersler

Telsiz İletişim, Doktora, 2022 - 2023

Haberleşme Teorisi, Lisans, 2022 - 2023

Analog Haberleşme, Lisans, 2022 - 2023

Yönetilen Tezler

Yılmaz F., Özellikleri bağımsız olmayan veri kümeleri için Naive Bayes sınıflandırıcılar, Yüksek Lisans, G.Chatip(Öğrenci), 2022

Yılmaz F., Kablosuz 5G Ötesi Ağlarda Görme Destekli Işın İzleme Problemine Yumuşak Dikkat Mekanizması Kullanarak Uzun Kısa Süreli Bellek Uygulanması, Yüksek Lisans, N.SINANI(Öğrenci), 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Alternative expressions of the PDF and CDF for Gamma, $\eta-\mu$ and $\kappa-\mu$ shadowed distributions with applications in wireless communications**
Yılmaz F., Hasna M. O., Qaraqe K.
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- II. **Performance Analysis of OTFS Under In-Phase and Quadrature Imbalance at Transmitter**
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IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.70, sa.11, ss.11761-11771, 2021 (SCI-Expanded)
- III. **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, sa.5, ss.2763-2776, 2020 (SCI-Expanded)
- IV. **On the asymptotic analysis of the high-order statistics of the channel capacity over generalized fading channels**
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TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.28, sa.1, ss.362-379, 2020 (SCI-Expanded)
- V. **McLeish Distribution: Performance of Digital Communications Over Additive White McLeish Noise (AWMN) Channels**
Yılmaz F.
IEEE ACCESS, cilt.8, ss.19133-19195, 2020 (SCI-Expanded)
- VI. **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**
Yılmaz F., Alouini M.
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- VII. **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., Yılmaz F., Alouini M., Kucur O.
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- VIII. **Performance Analysis of Free-Space Optical Links Over Malaga (M) Turbulence Channels With Pointing Errors**
Ansari I. S., Yılmaz F., Alouini M.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.15, sa.1, ss.91-102, 2016 (SCI-Expanded)
- IX. **Heterogeneous next-generation wireless network interference model-and its applications**
Mahmood N. H., Yılmaz F., Alouini M., Oien G. E.
TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, cilt.25, sa.5, ss.563-575, 2014 (SCI-Expanded)
- X. **A Generic Interference Model for Uplink OFDMA Networks With Fractional Frequency Reuse**
Tabassum H., Dawy Z., Alouini M. S., Yılmaz F.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.63, sa.3, ss.1491-1497, 2014 (SCI-Expanded)
- XI. **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, sa.1, ss.489-494, 2014 (SCI-Expanded)

- XII. **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, sa.10, ss.1932-1935, 2013 (SCI-Expanded)
- XIII. **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, sa.9, ss.3953-3966, 2013 (SCI-Expanded)
- XIV. **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, sa.9, ss.4422-4433, 2013 (SCI-Expanded)
- XV. **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, sa.3, ss.351-354, 2013 (SCI-Expanded)
- XVI. **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, sa.1, ss.454-460, 2013 (SCI-Expanded)
- XVII. **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, sa.1, ss.206-217, 2013 (SCI-Expanded)
- XVIII. **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, sa.6, ss.573-576, 2012 (SCI-Expanded)
- XIX. **Capacity limits of spectrum-sharing systems over hyper-fading channels**
Ekin S., Yilmaz F., Celebi H., Qaraqe K. A., Alouini M., Serpedin E.
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, cilt.12, sa.16, ss.1471-1480, 2012 (SCI-Expanded)
- XX. **A Novel Unified Expression for the Capacity and Bit Error Probability of Wireless Communication Systems over Generalized Fading Channels**
Yilmaz F., Alouini M.
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- XXI. **Average Bit Error Probability of Binary Coherent Signaling over Generalized Fading Channels Subject to Additive Generalized Gaussian Noise**
Soury H., Yilmaz F., Alouini M.
IEEE COMMUNICATIONS LETTERS, cilt.16, sa.6, ss.785-788, 2012 (SCI-Expanded)
- XXII. **A Unified MGF-Based Capacity Analysis of Diversity Combiners over Generalized Fading Channels**
Yilmaz F., Alouini M.
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- XXIII. **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., Yilmaz F., Alouini M., Yanikomeroglu H.
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- XXIV. **Performance of Equal Gain Combining with Quantized Phases in Rayleigh Fading Channels**
Rizvi U. H., Yilmaz F., Alouini M., Janssen G. J. M., Weber J. H.
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- XXV. **Symbol Error Rate Performance of QS-CDMA over Frequency Selective Time Non-Selective Multipath Generalized Gamma Fading Channels**
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WIRELESS PERSONAL COMMUNICATIONS, cilt.49, sa.4, ss.487-516, 2009 (SCI-Expanded)

- XXVI. **Performance of quasisynchronous scale time code division multiple access for AWGN channel**
Yilmaz F., Kucur O.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **On the Vision-Beam Aided Tracking for Wireless 5G-Beyond Networks Using Long Short-Term Memory with Soft Attention Mechanism**
Sinani N., Yilmaz F.
The European Journal of Research and Development, cilt.2, sa.2, ss.505-520, 2022 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **On the Physical Layer Security of Maximal-Ratio Combining Over Weibull Fading Channels**
Tokgoz S. C., YILMAZ F., Miller S. L., Qaraqe K.
2022 International Balkan Conference on Communications and Networking (BalkanCom), Sarajevo, Bosna-Hersek, 22 - 24 Ağustos 2022
- II. **UAV-Assisted HetNets: Association Probability With Instantaneous Received Power**
Almohamad A., YILMAZ F., hasna M. O., Qaraqe K.
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- III. **A Dependent Feature Weighting Filter for Naive Bayes Classifier**
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- IV. **Physical Effect of In-Phase and Quadrature Imbalance in Delay-Doppler Domain**
Tusha A., Doğan-Tusha S., YILMAZ F., Altunibat S., Qaraqe K., Arslan H.
2021 IEEE 94th Vehicular Technology Conference (VTC2021-Fall), Amerika Birleşik Devletleri, 30 Eylül 2021
- V. **On the Bit-Error Rate of Binary Phase Shift Keying over Additive White Generalized Laplacian Noise (AWGLN) Channels**
Yilmaz F., Alouini M.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- VI. **A Useful Lemma for Bit Error Rate of the Noise Imbalanced MRC Combining over Correlated and Uncorrelated Fading Channels**
Yilmaz F., Alouini M.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- VII. **Vehicle Location Estimation Using Air Pressure Measurements**
Chatip G., Yilmaz F.
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- VIII. **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 - 02 Eylül 2016, ss.249-260
- IX. **On the Error Performance Bounds of Positioning Using RSSI-based Fingerprints**
Dogan S., Yilmaz F., ERTÜRK S.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.1325-1328
- X. **Performance Analysis of FSO Links Over Unified Gamma-Gamma Turbulence Channels**
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81st IEEE Vehicular Technology Conference (VTC Spring), Glasgow, İngiltere, 11 - 14 Mayıs 2015

- XI. **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
- XII. **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.
77th IEEE Vehicular Technology Conference (VTC), Dresden, Almanya, 2 - 05 Haziran 2013
- XIII. **Resource Allocation based Uplink Intercell Interference Model in Multi-Carrier Networks**
Tabassum H., Yilmaz F., Dawy Z., Alouini M.
77th IEEE Vehicular Technology Conference (VTC), Dresden, Almanya, 2 - 05 Haziran 2013
- XIV. **Exact Symbol Error Probability of Square M-QAM Signaling over Generalized Fading Channels subject to Additive Generalized Gaussian Noise**
Soury H., Yilmaz F., Alouini M.
IEEE International Symposium on Information Theory (ISIT), İstanbul, Türkiye, 7 - 12 Temmuz 2013, ss.51-55
- XV. **On the Performance of Hybrid RF and RF/FSO Fixed Gain Dual-Hop Transmission Systems**
Ansari I. S., Alouini M., Yilmaz F.
Saudi International Electronics, Communications and Photonics Conference (SIEPCPC), Riyadh, Suudi Arabistan, 27 - 30 Nisan 2013
- XVI. **On the Performance of Mixed RF/FSO Dual-Hop Transmission Systems**
Ansari I. S., Yilmaz F., Alouini M.
77th IEEE Vehicular Technology Conference (VTC), Dresden, Almanya, 2 - 05 Haziran 2013
- XVII. **On the ergodic capacity of legacy systems in the presence of next generation interference**
MAHMOOD N. H., YILMAZ F., Geir E O., ALOUINI M. S., OIEN G. E.
2011 8th International Symposium on Wireless Communication Systems, Aachen, Almanya, 6 - 09 Kasım 2011, ss.462-466
- XVIII. **Novel relations between the ergodic capacity and the average bit error rate**
YILMAZ F., ALOUINI M. S.
2011 8th International Symposium on Wireless Communication Systems, Aachen, Almanya, 6 - 09 Kasım 2011, ss.789-793
- XIX. **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, Aachen, Almanya, 6 - 09 Kasım 2011, ss.735-739
- XX. **Partial relay selection based on shadowing side information over generalized composite fading channels**
YILMAZ F., ALOUINI M. S.
2011 8th International Symposium on Wireless Communication Systems, Aachen, Almanya, 6 - 09 Kasım 2011, ss.367-371
- XXI. **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
- XXII. **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
- XXIII. **A Novel Ergodic Capacity Analysis of Diversity Combining and Multihop Transmission Systems over**

Generalized Composite Fading Channels

Yilmaz F., Alouini M.

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- XXIV. **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
- XXV. **A Statistical Model for Uplink Intercell Interference with Power Adaptation and Greedy Scheduling**
Tabassum H., Yilmaz F., Dawy Z., Alouini M. S.
76th IEEE Vehicular Technology Conference (VTC Fall), Quebec City, Kanada, 3 - 06 Eylül 2012
- XXVI. **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
- XXVII. **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
- XXVIII. **On Hybrid Cooperation in Underlay Cognitive Radio Networks**
Mahmood N. H., Yilmaz F., Oien G. E., Alouini M.
46th Asilomar Conference on Signals, Systems and Computers, California, Amerika Birleşik Devletleri, 4 - 07 Kasım 2012, ss.308-312
- XXIX. **Transmit Antenna Selection Based on Shadowing Side Information**
YILMAZ A., YILMAZ F., ALOUINI M. S., KUCUR O.
2011 IEEE 73rd Vehicular Technology Conference (VTC Spring), Budapest, Macaristan, 15 - 18 Mayıs 2011
- XXX. **On the Average Capacity and Bit Error Probability of Wireless Communication Systems**
Yilmaz F., Alouini M.
54th Annual IEEE Global Telecommunications Conference (GLOBECOM), Texas, Amerika Birleşik Devletleri, 5 - 09 Aralık 2011
- XXXI. **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
- XXXII. **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
- XXXIII. **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., Yanikomeroglu H.
73rd IEEE Vehicular Technology Conference (VTC Spring), Budapest, Macaristan, 15 - 18 Mayıs 2011
- XXXIV. **A novel framework on exact average symbol error probabilities of multihop transmission over amplify-and-forward relay fading channels**
YILMAZ F., KUCUR O., ALOUINI M. S.
2010 7th International Symposium on Wireless Communication Systems, York, Sierra Leone, 19 - 22 Eylül 2010, ss.546-550
- XXXV. **A new simple model for composite fading channels: Second order statistics and channel capacity**
YILMAZ F., ALOUINI M. S.
2010 7th International Symposium on Wireless Communication Systems, York, Sierra Leone, 19 - 22 Eylül 2010, ss.676-680
- XXXVI. **Performance analysis of digital communication systems over amplify and forward multihop relay channels**

YILMAZ F., M Slim A.

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XXXVII. A unified framework for the statistical characterization of the SNR of amplify-and-forward multihop channels

YILMAZ F., KUCUR O., ALOUINI M. S.

2010 17th International Conference on Telecommunications, Doha, Qatar, 4 - 07 Nisan 2010, ss.324-330

XXXVIII. Outage capacity of multicarrier systems

YILMAZ F., ALOUINI M. S.

2010 17th International Conference on Telecommunications, Doha, Qatar, 4 - 07 Nisan 2010, ss.260-265

XXXIX. Selection combining with quantized channel phase compensation over Rayleigh fading

RIVZI U. H., YILMAZ F., ALOUINI M. S., JANSSEN G. J. M., WEBER J. H.

IEEE conference on Radio and wireless symposium (RWS), Piscataway, NJ, Amerika Birleşik Devletleri, 16 - 18 Ocak 2010, ss.216-219

XL. Exact Capacity Analysis of Multihop Transmission over Amplify-and-Forward Relay Fading Channels

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XLI. An MGF-based Capacity Analysis of Equal Gain Combining over Fading Channels

Yilmaz 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

XLII. The m-n distribution: A new closed-form physical channel fading model and performance of M-ary modulations

YILMAZ F., KUCUR O.

2009 European Wireless Conference, Aalborg, Danimarka, 17 - 20 Mayıs 2009, ss.282-286

XLIII. Product of shifted exponential variates and outage capacity of multicarrier systems

YILMAZ F., ALOUINI M. S.

2009 European Wireless Conference, Aalborg, Danimarka, 17 - 20 Mayıs 2009, ss.282-286

XLIV. Performance of equal gain combining for quantized estimates of Rayleigh fading channels

RIVZI U. H., YILMAZ F., ALOUINI M. S., JANSSEN G. J. M., WEBER J. H.

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XLV. Multihop based Turbo coding

YILMAZ F., ALOUINI M. S.

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XLVI. Sum of Weibull variates and performance of diversity systems

YILMAZ F., Mohamed-Slim A.

Proceedings of the 2009 International Conference on Wireless Communications and Mobile Computing Connecting the World Wirelessly - IWCMC 'xx09, Leipzig, Germany, Almanya, 21 - 24 Haziran 2009, ss.242-257

XLVII. Product of shifted Gamma variates and outage capacity of multicarrier systems

YILMAZ F., ALOUINI M. S.

IEEE Communications Theory Workshop (CTW), Nappa Valley, California, Amerika Birleşik Devletleri, 9 - 11 Mayıs 2009

XLVIII. Performance of RF level diversity combining with quantized channel estimates over Rayleigh fading

RIVZI U. H., YILMAZ F., ALOUINI M. S., JANSSEN G. J. M., WEBER J. H.

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XLIX. Achievable Capacity of a Spectrum Sharing System over Hyper Fading Channels

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

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Aralık 2009, ss.3992-3993

- L. **Product of the Powers of Generalized Nakagami-m Variates and Performance of Cascaded Fading Channels**
Yilmaz F., Alouini M.
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- LI. **Exact Performance of Wireless Multihop Transmission for M-ary Coherent Modulations over Generalized Gamma Fading Channels**
Yilmaz F., Kucur O.
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- LII. **Performance of QS CDMA over frequency selective time non selective multipath generalized Gamma fading channels**
YILMAZ F., KUCUR O.
The 13th European Wireless Conference (EW 2007), Paris, Fransa, 1 - 04 Nisan 2007, ss.487-516
- LIIL. **Cooperative uplink VG-CDMA over frequency selective generalized gamma slowly fading channels**
Yilmaz F., Kucur O.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Türkiye, 11 - 13 Haziran 2007, ss.491-494
- LIV. **Analysis of QS-CDMA for M-ary signaling over frequency selective generalized gamma slowly fading channels**
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- LV. **Analysis of QS-CDMA over frequency selective time non-selective Nakagami-m fading channels**
Yilmaz F., Kucur O.
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- LVI. **Bellek kazançlı Turbo Kodlar**
YILMAZ F.
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- LVII. **Turbo kodlar için karma serpiştirici tasarımı**
YILMAZ F., AYGÖLÜ H. Ü.
Signal Processing and Communications Applications (SIU), Pamukkale, Denizli, Türkiye, 12 - 14 Haziran 2002, ss.159-164

Patent

Yılmaz F., Konumlama Sistemi, Patent, BÖLÜM H Elektrik, Buluşun Tescil No: 2019/11424 , Standart Tescil, 2020

Metrikler

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Atıf (Scopus): 2029

H-İndeks (WoS): 14

H-İndeks (Scopus): 21