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Education Information

Doctorate, Gebze Technical University, Graduate School of Science And Engineering, Electronics Engineering, Turkey 2003 - 2009
Postgraduate, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, Turkey 2000 - 2002
Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 1993 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Haberleşme sistemlerinin genelleştirilmiş sönümlemeli kanallarda analizi, Gebze Technical University, Instıtute Of Scıence, 2009
Postgraduate, Turbo kodlar için serpiştirici tasarımı, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2002

Research Areas

Communication Engineering, Information Theory, Communication Networks, Communication System Theory, Wireless Communication, Quantum Communication, Optical Communication

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 2022 - Continues

Courses

Wireless Communications, Doctorate, 2022 - 2023
Communication Theory, Undergraduate, 2022 - 2023
Analog Communications, Undergraduate, 2022 - 2023

Advising Theses

Yılmaz F., Naive Bayes Classifiers For Datasets With Dependent Attributes, Postgraduate, G.Chatip(Student), 2022
Yılmaz F., On the Vision-Beam Aided Tracking for Wireless 5G-Beyond Networks Using Long Short-Term Memory with Soft Attention Mechanism, Postgraduate, N.SINANI(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

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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III. **On the Relationships Between Average Channel Capacity, Average Bit Error Rate, Outage Probability, and Outage Capacity Over Additive White Gaussian Noise Channels**
     Yilmaz F.
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IV. **On the asymptotic analysis of the high-order statistics of the channel capacity over generalized fading channels**
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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**
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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., Yilmaz F., Alouini M., Kucur O.
     TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, vol.28, no.1, 2017 (SCI-Expanded)

VIII. **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, vol.15, no.1, pp.91-102, 2016 (SCI-Expanded)

IX. **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, vol.25, no.5, pp.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., Yilmaz F.
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XI. **On the Computation of the Higher Order Statistics of the Channel Capacity for Amplify-and-Forward Multihop Transmission**
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XII. **Error Rates of M-PAM and M-QAM in Generalized Fading and Generalized Gaussian Noise Environments**
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XIII. **A Statistical Model of Uplink Inter-Cell Interference with Slow and Fast Power Control Mechanisms**
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IEEE TRANSACTIONS ON COMMUNICATIONS, vol.61, no.9, pp.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, vol.12, no.9, pp.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, vol.2, no.3, pp.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.
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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, vol.12, no.1, pp.206-217, 2013 (SCI-Expanded)

XVIII. **On the Computation of the Higher-Order Statistics of the Channel Capacity over Generalized Fading Channels**
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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, vol.12, no.16, pp.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.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.60, no.7, pp.1862-1876, 2012 (SCI-Expanded)

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.
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XXII. **A Unified MGF-Based Capacity Analysis of Diversity Combiners over Generalized Fading Channels**
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IEEE TRANSACTIONS ON COMMUNICATIONS, vol.60, no.3, pp.862-875, 2012 (SCI-Expanded)

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**
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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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XXVI.   **Performance of quasisynchronous scale time code division multiple access for AWGN channel**
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Articles Published in Other Journals

I.   **On the Vision-Beam Aided Tracking for Wireless 5G-Beyond Networks Using Long Short-Term Memory with Soft Attention Mechanism**
Sinani N., Yılmaz F.
The European Journal of Research and Development, vol.2, no.2, pp.505-520, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

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, Bosnia And Herzegovina, 22 - 24 August 2022

II.   **UAV-Assisted HetNets: Association Probability With Instantaneous Received Power**
Almohamad A., YILMAZ F., hasna M. O., Qaraqe K.
2022 International Balkan Conference on Communications and Networking (BalkanCom), Sarajevo, Bosnia And Herzegovina, 22 - 24 August 2022

III.   **A Dependent Feature Weighting Filter for Naive Bayes Classifier**
Chatip G., YILMAZ F.
Signal Processing and Communications Applications Conference, Karabük, Turkey, 15 - 18 May 2022

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), United States Of America, 30 September 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, Turkey, 2 - 05 May 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, Turkey, 2 - 05 May 2018

VII.   **Vehicle Location Estimation Using Air Pressure Measurements**
Chatip G., Yilmaz F.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018

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, Turkey, 31 August - 02 September 2016, pp.249-260

IX.   **On the Error Performance Bounds of Positioning Using RSSI-based Fingerprints**
Dogan S., Yilmaz F., ERTÜRK S.
23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,

pp.1325-1328

X. **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), Glasgow, England, 11 - 14 May 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, Turkey, 6 - 09 April 2014, pp.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, Germany, 2 - 05 June 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, Germany, 2 - 05 June 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, Turkey, 7 - 12 July 2013, pp.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 (SIECPC), Riyadh, Saudi Arabia, 27 - 30 April 2013

XVI. **On the Performance of Mixed RF/FSO Dual-Hop Transmission Systems**
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77th IEEE Vehicular Technology Conference (VTC), Dresden, Germany, 2 - 05 June 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, Germany, 6 - 09 November 2011, pp.462-466

XVIII. **Novel relations between the ergodic capacity and the average bit error rate**
YILMAZ F., ALOUINI M. S.
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XIX. **On the statistics of uplink inter-cell interference with greedy resource allocation**
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2011 8th International Symposium on Wireless Communication Systems, Aachen, Germany, 6 - 09 November 2011, pp.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, Germany, 6 - 09 November 2011, pp.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, Turkey, 17 - 20 June 2012, pp.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, Turkey, 17 - 20 June 2012, pp.394-398

XXIII. **A Novel Ergodic Capacity Analysis of Diversity Combining and Multihop Transmission Systems over Generalized Composite Fading Channels**

Yilmaz F., Alouini M.

IEEE International Conference on Communications (ICC), Ottawa, Canada, 10 - 15 June 2012

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, France, 1 - 04 April 2012, pp.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, Canada, 3 - 06 September 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, United States Of America, 16 - 19 October 2012, pp.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, Tunisia, 25 - 28 March 2012, pp.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, United States Of America, 4 - 07 November 2012, pp.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, Hungary, 15 - 18 May 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, United States Of America, 5 - 09 December 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, Turkey, 4 - 08 July 2011, pp.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, Costa Rica, 26 - 29 June 2011, pp.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, Hungary, 15 - 18 May 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 September 2010, pp.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 September 2010, pp.676-680

XXXVI. **Performance analysis of digital communication systems over amplify and forward multihop relay channels**
YILMAZ F., M Slim A.
International Conference on Next Generation Wireless Systems (NGWS), Melbourne, Australia, 12 - 14 October 2009

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 April 2010, pp.324-330

XXXVIII. **Outage capacity of multicarrier systems**
YILMAZ F., ALOUINI M. S.
2010 17th International Conference on Telecommunications, Doha, Qatar, 4 - 07 April 2010, pp.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, United States Of America, 16 - 18 January 2010, pp.216-219

XL. **Exact Capacity Analysis of Multihop Transmission over Amplify-and-Forward Relay Fading Channels**
Yilmaz F., Kucur O., Alouini M.
21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), İstanbul, Turkey, 26 - 30 September 2010, pp.2293-2298

XLI. **An MGF-based Capacity Analysis of Equal Gain Combining over Fading Channels**
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XLII. **The m-n distribution: A new closed-form physical channel fading model and performance of M-ary modulations**
YILMAZ F., KUCUR O.
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XLIII. **Product of shifted exponential variates and outage capacity of multicarrier systems**
YILMAZ F., ALOUINI M. S.
2009 European Wireless Conference, Aalborg, Denmark, 17 - 20 May 2009, pp.282-286

XLIV. **Performance of equal gain combining for quantized estimates of Rayleigh fading channels**
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2009 European Wireless Conference, Aalborg, Denmark, 17 - 20 May 2009, pp.16-20

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.
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XLVII. **Product of shifted Gamma variates and outage capacity of multicarrier systems**
YILMAZ F., ALOUINI M. S.
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XLVIII. **Performance of RF level diversity combining with quantized channel estimates over Rayleigh fading**
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XLIX. **Achievable Capacity of a Spectrum Sharing System over Hyper Fading Channels**
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L. **Product of the Powers of Generalized Nakagami-m Variates and Performance of Cascaded Fading Channels**
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LI. **Exact Performance of Wireless Multihop Transmission for M-ary Coherent Modulations over Generalized Gamma Fading Channels**
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LII. **Performance of QS CDMA over frequency selective time non selective multipath generalized Gamma fading channels**
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LIII. **Cooperative uplink VG-CDMA over frequency selective generalized gamma slowly fading channels**
Yilmaz F., Kucur O.
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LIV. **Analysis of QS-CDMA for M-ary signaling over frequency selective generalized gamma slowly fading channels**
Yilmaz F., Kucur O.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.487-490

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**
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LVII. **Turbo kodlar için karma serpiştirici tasarımı**
YILMAZ F., AYGÖLÜ H. Ü.
Signal Processing and Communications Applications (SIU), Pamukkale, Denizli, Turkey, 12 - 14 June 2002, pp.159-164

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