

## Asst. Prof. Ferkan YILMAZ

### Personal Information

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### Biography

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.

### Education Information

Post Doctorate, King Abdullah University of Science and Technology, Computer, Electrical and Mathematical Science and Engineering, Computer, Electrical and Mathematical Science and Engineering Program, Saudi Arabia 2009 - 2012

Post Doctorate, Texas A&M University, Electrical and Computer Engineering, Communications Engineering, Turkey 2008 - 2009

Doctorate, Gebze Technical University, Faculty Of Engineering, Department Of Electronics Engineering, Turkey 2003 - 2009

Post Graduate, İstanbul Teknik Üniversitesi (İtü), Elektrik-Elektronik Fakültesi / Fen Bilimleri Enstitüsü, Elektronik Ve Haberleşme Mühendisliği, Turkey 1998 - 2003

Under Graduate, Yıldız Teknik Üniversitesi (Ytü), Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği, Turkey 1993 - 1997

### Foreign Languages

English, C1 Advanced

Japanese, B1 Intermediate

German, A1 Beginner

### Dissertations

Doctorate, Analysis of Communication Systems in Generalized Fading Channels, Gebze Technical University, Institute Of Science, 2009

Post Graduate, Interleaver Design for Turbo Codes, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2002

### Research Areas

Communication Engineering, Signal Processing, Communications and Network Protocols, Data Routing, Artificial Intelligence, Computer Learning and Pattern Recognition, Statistics, Probability Theory, Stochastic Processes

## Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty of Electrical & Electronics, Computer Engineering, 2015 - Continues

Expert PhD, King Abdullah University of Science and Technology, Computer, Electrical and Mathematical Science and Engineering Division, Computer, Electrical and Mathematical Science and Engineering, 2009 - 2012

Research Assistant, Texas A&M University, Electrical and Computer Engineering, Electrical and Computer Engineering Program, 2008 - 2009

## Professional Experience

General Manager, TELCOMOBIL Telecommunication Electronic Computer Technologies Inc., Location Based Technologies, 2019 - Continues

Expert, Republic of Turkey Ministry of Justice, Forensic Medicine Institute, İstanbul Forensic Medicine Directorate, 2018 - 2019

Senior Telecommunications Expert, Vodafone IT Technology, Konum Tabanlı Hizmetler, 2012 - 2015

Senior Telecommunication Software Developer and Team Leader, Vodafone IT Technology, SS7 Signaling Gateway and Value Added Services, 2004 - 2008

Senior Researcher, TUBITAK - Türkiye Bilimsel ve Teknolojik Araştırma Kurumu, National Research Institute of Electronics and Cryptology, 1998 - 2003

## Courses

Multivariate Statistical Data Analysis, Doctorate, 2017 - 2018, 2019 - 2020

Discrete Event Simulation, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Computation Theory, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020

Probability, Random Variables and Stochastic Processes, Post Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Signals and Systems for Computer Engineers, Under Graduate, 2018 - 2019, 2019 - 2020

Statistics and Probability, Under Graduate, 2016 - 2017, 2017 - 2018

Digital Signal Processing, Under Graduate, 2016 - 2017, 2017 - 2018

## Advising Theses

Yılmaz F., The Upper Performance Bound of the Expected Generalized Error in Recurrent Neural Networks, Doctorate, K.Kebabcı(Student), Continues

Yılmaz F., A new definition of expected transmission count as an ad-hoc network routing information, Post Graduate, M.MOHAMMED(Student), 2017

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **McLeish Distribution: Performance of Digital Communications Over Additive White McLeish Noise (AWMN) Channels**  
Yılmaz F.  
IEEE ACCESS, vol.8, pp.19133-19195, 2020 (Journal Indexed in SCI)
- **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, vol.68, pp.2763-2776, 2020 (Journal Indexed in SCI Expanded)

- **On the asymptotic analysis of the high-order statistics of the channel capacity over generalized fading channels**  
 Yilmaz F.  
 TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.1, pp.362-379, 2020 (Journal Indexed in SCI)
- **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, vol.27, pp.106-119, 2019 (Journal Indexed in SCI)
- **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, 2017 (Journal Indexed in SCI)
- **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, pp.91-102, 2016 (Journal Indexed in SCI)
- **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, pp.563-575, 2014 (Journal Indexed in SCI)
- **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, vol.63, pp.1491-1497, 2014 (Journal Indexed in SCI)
- **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, vol.63, pp.489-494, 2014 (Journal Indexed in SCI)
- **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, vol.17, pp.1932-1935, 2013 (Journal Indexed in SCI)
- **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, vol.61, pp.3953-3966, 2013 (Journal Indexed in SCI)
- **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, pp.4422-4433, 2013 (Journal Indexed in SCI)
- **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, pp.351-354, 2013 (Journal Indexed in SCI)
- **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, pp.206-217, 2013 (Journal Indexed in SCI)
- **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, vol.62, pp.454-460, 2013 (Journal Indexed in SCI)
- **On the Computation of the Higher-Order Statistics of the Channel Capacity over Generalized Fading Channels**  
 Yilmaz F., Alouini M.  
 IEEE WIRELESS COMMUNICATIONS LETTERS, vol.1, pp.573-576, 2012 (Journal Indexed in SCI)
- **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, pp.1471-1480, 2012 (Journal Indexed in SCI)

- **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, pp.1862-1876, 2012 (Journal Indexed in SCI)

- **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, vol.16, pp.785-788, 2012 (Journal Indexed in SCI)

- **A Unified MGF-Based Capacity Analysis of Diversity Combiners over Generalized Fading Channels**

Yilmaz F., Alouini M.

IEEE TRANSACTIONS ON COMMUNICATIONS, vol.60, pp.862-875, 2012 (Journal Indexed in SCI)

- **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.

IEEE TRANSACTIONS ON COMMUNICATIONS, vol.59, pp.2654-2658, 2011 (Journal Indexed in SCI)

- **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.

IEEE TRANSACTIONS ON COMMUNICATIONS, vol.59, pp.13-18, 2011 (Journal Indexed in SCI)

- **Symbol Error Rate Performance of QS-CDMA over Frequency Selective Time Non-Selective Multipath Generalized Gamma Fading Channels**

Yilmaz F., Kucur O.

WIRELESS PERSONAL COMMUNICATIONS, vol.49, pp.487-516, 2009 (Journal Indexed in SCI)

- **Performance of quasisynchronous scale time code division multiple access for AWGN channel**

Yilmaz F., Kucur O.

COMPUTERS & ELECTRICAL ENGINEERING, vol.34, pp.38-52, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **On the analysis of secrecy outage probability using average channel capacity**

Yilmaz F.

Sakarya University Journal Of Science, vol.1, no.1, pp.1-9, 2020 (National Refreed University Journal)

- **Performance of amplify-and-forward multihop transmission over relay clusters with different routing strategies**

Yilmaz F., Khan F. A. , Alouini M.

International Journal of Autonomous and Adaptive Communications Systems, vol.7, pp.110-127, 2014 (Refreed Journals of Other Institutions)

## Refreed Congress / Symposium Publications in Proceedings

- **Vehicle Location Estimation Using Air Pressure Measurements**

YILMAZ F., Chatip G.

IEEE Signal Processing and Communications Applications Conference, İzmir, Turkey, 02 May 2018, vol.1, no.1, pp.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, Turkey, 02 May 2018, vol.1, no.1, pp.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, Turkey, 02 May 2018, vol.1, no.1, pp.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, Turkey, 31 August 2016, vol.1, no.1, pp.1-12

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

Doğan S., YILMAZ F., Erturk S.

01 May 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, United Kingdom, 11 - 14 May 2015, vol.2015

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

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

01 November 2014, vol.7, pp.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, Turkey, 6 - 09 April 2014, pp.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, Germany, 2 - 05 June 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, Germany, 2 - 05 June 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, United States Of America, 2 - 05 September 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, Germany, 2 - 05 June 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, Saudi Arabia, 27 - 30 April 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, United Kingdom, 21 October 2013, pp.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, Canada, 10 - 15 June 2012, pp.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, United States Of America, 16

- 19 October 2012, pp.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, France, 1 - 04 April 2012, pp.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, Tunisia, 25 - 28 March 2012, pp.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, Turkey, 17 - 20 June 2012, pp.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, Turkey, 17 - 20 June 2012, pp.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, Germany, 6 - 09 November 2011, pp.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, Hungary, 15 - 18 May 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, United States Of America, 5 - 09 December 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, Germany, 6 - 09 November 2011, pp.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, Germany, 6 - 09 November 2011, pp.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, Germany, 6 - 09 November 2011, pp.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, Hungary, 15 - 18 May 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, Costa Rica, 26 - 29 June 2011, pp.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, Turkey, 4 -

08 July 2011, pp.754-759

- **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.  
2010 7th International Symposium on Wireless Communication Systems, ISWCS'10, York, United Kingdom, 19 - 22 September 2010, pp.546-550
- **A new simple model for composite fading channels: Second order statistics and channel capacity**  
Yilmaz F., Alouini M.  
2010 7th International Symposium on Wireless Communication Systems, ISWCS'10, York, United Kingdom, 19 - 22 September 2010, pp.676-680
- **Outage capacity of multicarrier systems**  
Yilmaz F., Alouini M.  
2010 17th International Conference on Telecommunications, ICT 2010, Doha, Qatar, 4 - 07 April 2010, pp.260-265
- **A unified framework for the statistical characterization of the SNR of amplify-and-forward multihop channels**  
Yilmaz F., Kucur Ö., Alouini M.  
2010 17th International Conference on Telecommunications, ICT 2010, Doha, Qatar, 4 - 07 April 2010, pp.324-330
- **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, Turkey, 26 - 30 September 2010, pp.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 January 2010, pp.216
- **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
- **Product of the powers of generalized Nakagami-m variates and performance of cascaded fading channels**  
Yilmaz F., Alouini M.  
2009 IEEE Global Telecommunications Conference, GLOBECOM 2009, Honolulu, HI, United States Of America, 30 November - 04 December 2009
- **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, EW 2009, Aalborg, Denmark, 17 - 20 May 2009, pp.21-25
- **Product of shifted exponential variates and outage capacity of multicarrier systems**  
Yilmaz F., Alouini M.  
2009 European Wireless Conference, EW 2009, Aalborg, Denmark, 17 - 20 May 2009, pp.282-286
- **Achievable capacity of a spectrum sharing system over hyper fading channels**  
Ekin S., Yilmaz F., Celebi H., Qaraqe K. A. , Alouini M., Serpedin E.  
2009 IEEE Global Telecommunications Conference, GLOBECOM 2009, Honolulu, HI, United States Of America, 30 November - 04 December 2009
- **Performance of equal gain combining for quantized estimates of Rayleigh fading channels**  
Rizvi U. H. , Yilmaz F., Alouini M., Janssen G. J. M. , Weber J. H.  
2009 European Wireless Conference, EW 2009, Aalborg, Denmark, 17 - 20 May 2009, pp.16-20
- **Sum of Weibull variates and performance of diversity systems**  
Yilmaz F., Alouini M.  
2009 ACM International Wireless Communications and Mobile Computing Conference, IWCMC 2009, Leipzig, Germany, 21 - 24 June 2009, pp.247-252
- **Multihop-based Turbo coding**  
YILMAZ F., Alouini M.

01 October 2009

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

YILMAZ F., Alouini M.

01 May 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 May 2009

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

Yilmaz F., Kucur O.

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

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

YILMAZ F., Kucur O.

01 June 2007, pp.1-4

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

YILMAZ F., Kucur O.

01 June 2007, pp.1-4

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

YILMAZ F., Kucur O.

01 April 2006, pp.1-4

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

YILMAZ F.

01 July 2003, pp.457-460

- **Hybrid interleaver design for Turbo codes**

YILMAZ F., Aygözü Ü.

01 July 2002, pp.158-164

## Other Publications

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

YILMAZ F., Alouini M.

Other, 2012

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

Tabassum H., YILMAZ F., Alouini M.

Other, 2012

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

YILMAZ F., Alouini M.

Other, 2011

## Activities in Scientific Journals

Frontiers in Communications and Networks, Assistant Editor, 2020 - Continues

## Memberships / Tasks in Scientific Organizations

IEEE Information Theory Society Membership, Member, 2009 - Continues, United States Of America

IEEE Communications Society Membership, Member, 2009 - Continues, United States Of America



## Scientific Consultations

Ministry of Justice, Forensic Medicine Institute, Forensic IT Specialization Department, Scientific Consultancy, Yıldız Technical University, Faculty Of Electrical & Electronics, Computer Engineering, Turkey, 2018 - 2019

## Tasks In Event Organizations

Yılmaz F., Technical Program Committee (TPC) Member in "The International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2020)", Scientific Congress, Bahrain, Aralık 2020

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE Global Communications Conference (GLOBECOM 2020): Wireless Communications Symposium", Scientific Congress, Taipei, Taiwan, Aralık 2020

Yılmaz F., Technical Program Committee (TPC) Member in "International Conference on Artificial Intelligence & Modern Assistive Technology (ICAEMAT'20)", Scientific Congress, Ar-Riyad, Saudi Arabia, Kasım 2020

Yılmaz F., Technical Program Committee (TPC) Member in "The Second International Conference on Big Data and Advanced Wireless Technologies (BDAW 2020)", Scientific Congress, London, United Kingdom, Temmuz 2020

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE Global Communications Conference (GLOBECOM 2019)", Scientific Congress, Hawaii, United States Of America, Aralık 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE Middle East & North Africa Communications Conference (MENACOMM'19)", Scientific Congress, Al-Manamah, Bahrain, Kasım 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 International Conference on Industry 4.0, Artificial Intelligence and Communications Technology", Scientific Congress, Balikpapan, Indonesia, Temmuz 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2019 IEEE GCC Conference and Exhibition", Scientific Congress, Al-Kuwayt, Kuwait, Nisan 2019

Yılmaz F., Technical Program Committee (TPC) Member in "The 2018 IEEE Global Communications Conference (GLOBECOM 2018)", Scientific Congress, Abu Dhabi, United Arab Emirates, Aralık 2018

Yılmaz F., Technical Program Committee (TPC) Member in "The 2018 International Conference on Internet of Things and Intelligence System (IoTaIS 2018)", Scientific Congress, Balikpapan, Indonesia, Kasım 2018

Yılmaz F., Technical Program Committee (TPC) Member in "The 2017 IEEE Global Communications Conference (GLOBECOM 2017)", Scientific Congress, Singapore, Singapore, Aralık 2017

Yılmaz F., Technical Program Committee (TPC) Member in "The 13th International Wireless Communications and Mobile Computing Conference (IWCMC 2017): 5G workshop", Scientific Congress, Valencia, Spain, Haziran 2017

Yılmaz F., Technical Program Committee (TPC) Member in "The 2011 7th International Wireless Communications and Mobile Computing Conference (IWCMC 2011)", Scientific Congress, İstanbul, Turkey, Temmuz 2011

## Citations

Total Citations (WOS):1019

h-index (WOS):13

## Entrepreneurship Activities

Anonymous, Telcomobil Telecommunication Electronics Computer Technologies, Inc., 30 May 2019, Founder Owner