

Prof. ALI ÖZGÜR YILMAZ

Personal Information

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Education Information

Doctorate, University Of Michigan, Electrical Engineering, United States Of America 1999 - 2003

Under Graduate, University Of Michigan, Electrical Engineering, United States Of America 1996 - 1999

Foreign Languages

English, C1 Advanced

Research Areas

Communication Engineering, Information Theory, Communication System Theory, Error Corrector Codes, Wireless Communication, Modulation Methods, Radar Theory, Telecommunication Applications, Sattelite Communication, Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2015 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2003 - 2015

Courses

TELECOMMUNICATIONS II, Under Graduate, 2019 - 2020

Wireless Communications, Post Graduate, 2020 - 2021

ENGINEERING DESIGN II, Under Graduate, 2019 - 2020

Signals and Systems, Under Graduate, 2019 - 2020

ENGINEERING DESIGN I, Under Graduate, 2019 - 2020

Advising Theses

YILMAZ A. Ö. , Detection of high order M-ARY QAM symbols under transmitter nonlinearities, Post Graduate, Z.GÜLGÜN(Student), 2018

YILMAZ A. Ö. , Testbed implementation of a MIMO-OFDM data link at sub 6 GHz frequency bands using an SDR platform, Post Graduate, U.TAMER(Student), 2018

YILMAZ A. Ö. , Multicell resource allocation for multicarrier networks with multiuser decoding receivers, Doctorate,

Y.KADRİ(Student), 2017

YILMAZ A. Ö. , Design and implementation of wireless sensor networks utilizing sector antennas, Post Graduate, Y.ALPER(Student), 2016

YILMAZ A. Ö. , On self-interference cancellation in wireless full duplex, Post Graduate, A.FATİH(Student), 2016

YILMAZ A. Ö. , Interference suppression capability of faster than symbol rate sampling and frequency domain oversampling, Doctorate, E.BALEVİ(Student), 2016

YILMAZ A. Ö. , OFDMA based device-to-device communication protocols, Post Graduate, Y.CAN(Student), 2015

YILMAZ A. Ö. , Graph-based joint channel estimation and data detection for large-scale multiuser MIMO-OFDM systems /, Post Graduate, Ş.YAŞAR(Student), 2015

YILMAZ A. Ö. , ORGUNER U., On localization and tracking using received signal strength measurements /, Post Graduate, A.YILMAZ(Student), 2015

KOÇ S. S. , YILMAZ A. Ö. , Design of an experimental FMCW weather radar, Post Graduate, S.COŞKUN(Student), 2015

YILMAZ A. Ö. , Out-of-band radiation and cfo immunity of potential 5G multicarrier modulation schemes, Post Graduate, A.BULUT(Student), 2015

YILMAZ A. Ö. , ORGUNER U., INDOOR LOCALIZATION AND TRACKING BASED ON RSSI AND ACCELEROMETER MEASUREMENTS, Post Graduate, M.DOĞAN(Student), 2015

YILMAZ A. Ö. , ÇİLOĞLU T., Implementation of an underwater acoustic FSK system and investigation of the effects of surface reflections /, Post Graduate, O.ŞENTÜRK(Student), 2014

YILMAZ A. Ö. , Wireless network coding for multiple unicast transmissions, Doctorate, T.AKTAŞ(Student), 2014

YILMAZ A. Ö. , Secure communication in cooperative networks using cooperative jamming techniques, Post Graduate, K.ERKAN(Student), 2014

TANIK Y., YILMAZ A. Ö. , A reduced complexity Ungerboeck type receiver for multi-code signaling in dispersive channels, Doctorate, G.MUZAFFER(Student), 2014

YILMAZ A. Ö. , Reducing mimo detection complexity via hierarchical modulation, Post Graduate, Y.UĞUR(Student), 2014

YILMAZ A. Ö. , Factor graph based linear minimum mean square error equalization for wireless communications /, Post Graduate, P.ŞEN(Student), 2014

YILMAZ A. Ö. , Channel estimation refinement by training sequence extension and interleaver design /, Post Graduate, S.GELİNCİK(Student), 2014

YILMAZ A. Ö. , Reducing MIMO detection complexity via hierarchical modulation /, Post Graduate, Y.Uğur(Student), 2014

YILMAZ A. Ö. , A Comparison of spatial modulation and spatial multiplexing systems in multipath fading channels, Post Graduate, H.Saygılı(Student), 2013

YILMAZ A. Ö. , Tracking by classifications, Post Graduate, T.Marpuç(Student), 2013

YILMAZ A. Ö. , Graph based iterative detection and channel estimation for sparse frequency selective channels, Post Graduate, A.BARAN(Student), 2013

YILMAZ A. Ö. , An experimental investigation on indoor rssi-based localization, Post Graduate, M.KORAY(Student), 2013

YILMAZ A. Ö. , A comparison of spatial modulation and spatial multiplexing systems in multipath fading channels, Post Graduate, H.SAYGILI(Student), 2013

YILMAZ A. Ö. , Compressive sensing for radar target detection, Post Graduate, F.ÇAĞLIYAN(Student), 2013

YILMAZ A. Ö. , A comparison of time-switched transmit diversity and space-time coded systems over time-varying miso channels, Post Graduate, E.KÖKEN(Student), 2011

YILMAZ A. Ö. , Telsiz sistemlerde çift yönlü röleli haberleşme, Doctorate, Ö.ÖZDEMİR(Student), 2011

YILMAZ A. Ö. , A bidirectional LMS algorithm for estimation of fast time-varying channels, Doctorate, Y.YAPICI(Student), 2011

YILMAZ A. Ö. , The Hilbert Space of probability mass functions and applications on probabilistic Inference, Doctorate, M.Fatih(Student), 2011

YILMAZ A. Ö. , Opportunistic multiple relaying in wireless ad hoc networks, Post Graduate, G.YENİHAYAT(Student), 2011

YILMAZ A. Ö. , Blind channel estimation based on the Lloyd-Max algorithm in narrowband fading channels and jamming, Post Graduate, O.DİZDAR(Student), 2011

YILMAZ A. Ö. , The Hilbert space of probability mass functions and applications on probabilistic inference, Doctorate, M.FATİH(Student), 2011

YILMAZ A. Ö. , Achievable coding rates for AWGN and block fading channels in the finite blocklength regime, Post

Graduate, M.VURAL(Student), 2010
YILMAZ A. Ö. , MMSE based iterative turbo equalization for antenna switching systems, Post Graduate, R.Ali(Student), 2010
YILMAZ A. Ö. , Spectral and statistical analyses of experimental radar clutter data, Post Graduate, N.DENİZ(Student), 2010
YILMAZ A. Ö. , MMSE based iterative turbo equalization for antenna switching systems, Post Graduate, R.ALİ(Student), 2010
YILMAZ A. Ö. , Near capacity operating practical transceivers for wireless fading channels, Post Graduate, G.MUZAFFER(Student), 2009
YILMAZ A. Ö. , Multi-transducer ultrasonic communication, Post Graduate, E.Ersagun(Student), 2009
YILMAZ A. Ö. , Performance of parallel decodable turbo and repeat accumulate codes implemented on an FPGA platform, Post Graduate, E.ERDİN(Student), 2009
YILMAZ A. Ö. , Performance of parallel decodable turbo and repeat-accumulate codes implemented on an fpga platform, Post Graduate, E.Erdin(Student), 2009
YILMAZ A. Ö. , FPGA implementation of jointly operating channel estimator and parallelized decoder, Post Graduate, Ç.KILCIOĞLU(Student), 2009
YILMAZ A. Ö. , Design of self-organizing map type electromagnetic target classifiers for dielectric spheres and conducting aircraft targets with investigation of their noise performances, Post Graduate, T.Taylan(Student), 2009
CANDAN Ç., YILMAZ A. Ö. , A study of precoding schemes for OFDM systems, Post Graduate, F.SELCEN(Student), 2008
YILMAZ A. Ö. , Interference suppression by using space-time adaptive processing for airborne radar, Post Graduate, Ö.ERYİĞİT(Student), 2008
UYŞAL BIYIKOĞLU E., YILMAZ A. Ö. , Subcarrier allocation in OFDMA systems with time varying channel and packet arrivals, Post Graduate, E.TOKTAŞ(Student), 2008
YILMAZ A. Ö. , Parallel decodable channel coding implemented on a MIMO testbed, Post Graduate, T.AKTAŞ(Student), 2007
YILMAZ A. Ö. , Parallelized architectures for low latency turbo structures, Doctorate, O.Gazi(Student), 2007
YILMAZ A. Ö. , Successive target cancellation for radar waveform sidelobe reduction, Post Graduate, O.HALİLOĞLU(Student), 2006
YILMAZ A. Ö. , Implementation of a digital signal synthesizer with high spurious free dynamic range, Post Graduate, A.KILIÇ(Student), 2006
YILMAZ A. Ö. , Soft decoding of convolutional product codes on an FPGA platform, Post Graduate, M.SANLI(Student), 2005
YILMAZ A. Ö. , BAYKAL B., Sub-graph approach in iterative sum-product algorithm, Post Graduate, M.FATİH(Student), 2005

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, August, 2020

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

- I. **Beamformer Design With Smooth Constraint-Free Approximation in Downlink Cloud Radio Access Networks**
Kadan F. E. , YILMAZ A. Ö.
IEEE ACCESS, vol.9, pp.36399-36416, 2021 (Journal Indexed in SCI)
- II. **A Reduced Complexity Ungerboeck Receiver for Quantized Wideband Massive SC-MIMO**
ÜÇÜNCÜ A. B. , GÜVENSEN G. M. , YILMAZ A. Ö.
IEEE Transactions on Communications, 2021 (Journal Indexed in SCI Expanded)
- III. **Performance Analysis of Quantized Uplink Massive MIMO-OFDM With Oversampling Under Adjacent**

Channel Interference

ÜÇÜNCÜ A. B. , Bjornson E., Johansson H., YILMAZ A. Ö. , Larsson E. G.

IEEE TRANSACTIONS ON COMMUNICATIONS, vol.68, no.2, pp.871-886, 2020 (Journal Indexed in SCI)

- IV. **Detection Schemes for High Order M-Ary QAM Under Transmit Nonlinearities**
Gulgun Z., YILMAZ A. Ö.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.67, no.7, pp.4825-4834, 2019 (Journal Indexed in SCI)
- V. **Oversampling in One-Bit Quantized Massive MIMO Systems and Performance Analysis**
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.17, no.12, pp.7952-7964, 2018 (Journal Indexed in SCI)
- VI. **Efficient scheduling and power allocation for multiuser decoding receivers in OFDMA networks with minimum rate requirements**
Yazarel Y. K. , YILMAZ A. Ö.
PHYSICAL COMMUNICATION, vol.26, pp.60-70, 2018 (Journal Indexed in SCI)
- VII. **Interference mitigation in multiuser communication by faster than symbol rate sampling**
Balevi E., YILMAZ A. Ö.
PHYSICAL COMMUNICATION, vol.25, pp.148-157, 2017 (Journal Indexed in SCI)
- VIII. **A Low-Complexity Graph-Based LMMSE Receiver for MIMO ISI Channels With M-QAM Modulation**
Sen P., YILMAZ A. Ö.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.16, no.2, pp.1185-1195, 2017 (Journal Indexed in SCI)
- IX. **Analysis of Frequency Domain Oversampled MMSE SC-FDE**
Balevi E., YILMAZ A. Ö.
IEEE COMMUNICATIONS LETTERS, vol.20, no.2, pp.232-235, 2016 (Journal Indexed in SCI)
- X. **Factor Graph Based LMMSE Filtering for Colored Gaussian Processes**
Sen P., YILMAZ A. Ö.
IEEE SIGNAL PROCESSING LETTERS, vol.21, no.10, pp.1206-1210, 2014 (Journal Indexed in SCI)
- XI. **A Reduced-State Ungerboeck Type MAP Receiver with Bidirectional Decision Feedback for M-ary Quasi Orthogonal Signaling**
GÜVENSEN G. M. , TANIK Y., YILMAZ A. Ö.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.62, no.2, pp.552-566, 2014 (Journal Indexed in SCI)
- XII. **Error Rate Analysis of GF(q) Network Coded Detect-and-Forward Wireless Relay Networks Using Equivalent Relay Channel Models**
Safak I., AKTAŞ E., YILMAZ A. Ö.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.12, no.8, pp.3908-3919, 2013 (Journal Indexed in SCI)
- XIII. **Practical Methods for Wireless Network Coding With Multiple Unicast Transmissions**
Aktas T., YILMAZ A. Ö. , AKTAŞ E.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.61, no.3, pp.1123-1133, 2013 (Journal Indexed in SCI)
- XIV. **A General Framework for Optimum Iterative Blockwise Equalization of Single Carrier MIMO Systems and Asymptotic Performance Analysis**
GÜVENSEN G. M. , YILMAZ A. Ö.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.61, no.2, pp.609-619, 2013 (Journal Indexed in SCI)
- XV. **An Analysis of the Bidirectional LMS Algorithm over Fast-Fading Channels**
Yapici Y., YILMAZ A. Ö.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.60, no.7, pp.1759-1764, 2012 (Journal Indexed in SCI)
- XVI. **Blind Channel Estimation Based on the Lloyd-Max Algorithm in Narrowband Fading Channels and Partial-Band Jamming**
Dizdar O., YILMAZ A. Ö.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.60, no.7, pp.1986-1995, 2012 (Journal Indexed in SCI)
- XVII. **ML performance analysis of digital relaying in bi-directional relay channels**
Ozdemir O., YILMAZ A. Ö.
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, vol.12, no.8, pp.676-688, 2012 (Journal Indexed in SCI)

- XVIII. **Spectral Mask Compliance and Amplifier Nonlinearity in Single Carrier and OFDM Systems**
Koken E., YILMAZ A. Ö.
WIRELESS PERSONAL COMMUNICATIONS, vol.63, no.3, pp.579-586, 2012 (Journal Indexed in SCI)
- XIX. **Calculating Outage Probability of Block Fading Channels Based on Moment Generating Functions**
Yilmaz A. Ö.
IEEE TRANSACTIONS ON COMMUNICATIONS, vol.59, no.11, pp.2945-2950, 2011 (Journal Indexed in SCI)
- XX. **Implementation and performance of parallellised turbo decoders**
Erdin E., Kilcioglu C., YILMAZ A.
IET COMMUNICATIONS, vol.5, no.1, pp.39-50, 2011 (Journal Indexed in SCI)
- XXI. **Efficient Methods of Clutter Suppression for Coexisting Land and Weather Clutter Systems**
CANDAN Ç., YILMAZ A. Ö.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.45, no.4, pp.1641-1650, 2009 (Journal Indexed in SCI)
- XXII. **An Upper Bound for Limited Rate Feedback MIMO Capacity**
GÜVENSEN G. M. , YILMAZ A. Ö.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.8, no.6, pp.2748-2754, 2009 (Journal Indexed in SCI)
- XXIII. **Cooperative diversity in carrier frequency offset**
Yilmaz A. Ö.
IEEE Communications Letters, vol.11, no.4, pp.307-309, 2007 (Journal Indexed in SCI Expanded)
- XXIV. **Fast decodable turbo codes**
Gazi O., Yilmaz A. Ö.
IEEE Communications Letters, vol.11, no.2, pp.173-175, 2007 (Journal Indexed in SCI Expanded)
- XXV. **Zero state doped turbo equalizer**
Gazi O., Yilmaz A. Ö.
IEEE Communications Letters, vol.11, no.2, pp.164-166, 2007 (Journal Indexed in SCI Expanded)
- XXVI. **Turbo product codes based on convolutional codes**
Gazi O., Yilmaz A. O.
ETRI JOURNAL, vol.28, no.4, pp.453-460, 2006 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Joint Mitigation of IQ Imbalance and Power Amplifier Impairments by Real Valued Time Delay Neural Networks**
Yeşil S., Gürtunca B., YILMAZ A. Ö.
2019 27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, Turkey, 24 - 26 April 2019
- II. **Experimental Analysis and FPGA Implementation of the Real Valued Time Delay Neural Network Based Digital Predistortion**
Yesil S., Sen C., YILMAZ A. Ö.
26th IEEE International Conference on Electronics, Circuits and Systems (ICECS), Genoa, Italy, 27 - 29 November 2019, pp.614-617
- III. **Performance of One-Bit Massive MIMO With Oversampling Under Adjacent Channel Interference**
ÜÇÜNCÜ A. B. , Bjornson E., Johansson H., YILMAZ A. Ö. , Larsson E. G.
IEEE Global Communications Conference (GLOBECOM), Hawaii, United States Of America, 9 - 13 December 2019
- IV. **High Order QAM Performance Under Phase and Amplitude Distortions**
Gulgun Z., YILMAZ A. Ö.
IEEE 5G World Forum (5GWF), Santa-Clara, Cuba, 9 - 11 July 2018, pp.363-368
- V. **Usage of device-to-device communication with multiple antennas at the cell edges Çoklu antenli cihazdan cihaza haberleşme yönteminin hücre kenarındaki alanlarda kullanımı**
Erkan K., YILMAZ A. Ö.

- 26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VI. **Micro-Doppler analysis of rotary-wing air vehicles using pulsed-Doppler radar Darbe-Doppler Radar ile Döner Kanatlı Hava Araçlarının Mikro-Doppler Analizi**
Aybar B., YILMAZ A. Ö.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VII. **An experimental study on Power Amplifier linearisation by artificial neural networks Yapay Sinir Ağları ile Güç Yükselteç Doğrusallaştırma Amaçlı Deneysel Bir Çalışma**
Yesil S., Kolagasioglu A. E. , YILMAZ A. Ö.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VIII. **Uplink Performance Analysis of Oversampled Wideband Massive MIMO with One-Bit ADCs**
ÜÇÜNCÜ A. B. , Yilmaz A. Ö.
88th IEEE Vehicular Technology Conference, VTC-Fall 2018, Illinois, United States Of America, 27 - 30 August 2018
- IX. **Performance of High Order QAM under Transmit Nonlinearities**
YILMAZ A. Ö. , GÜLGÜN Z.
2018 IEEE 87th Vehicular Technology Conference (VTC Spring), Porto, Portugal, 3 - 06 June 2018
- X. **A Novel Transceiver Architecture for Highly Dispersive NOMA Channels**
Güvensen G. M. , Tanık Y., Yilmaz A. Ö.
2018 IEEE 87th Vehicular Technology Conference (VTC Spring), Porto, Portugal, 3 - 06 June 2018, pp.1-6
- XI. **Micro-Doppler Analysis of Rotary-Wing Air Vehicles Using Pulsed-Doppler Radar**
Aybar B., YILMAZ A. Ö.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XII. **An Experimental Study on Power Amplifier Linearisation by Artificial Neural Networks**
Yesil S., Kolagasioglu A. E. , YILMAZ A. Ö.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIII. **Usage of Device-to-Device Communication with Multiple Antennas at the Cell Edges**
Erkan K., YILMAZ A. Ö.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XIV. **Sequential Linear Detection in One-Bit Quantized Uplink Massive MIMO with Oversampling**
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.
88th IEEE Vehicular Technology Conference (VTC-Fall), Illinois, United States Of America, 27 - 30 August 2018
- XV. **Performance Analysis of Faster than Symbol Rate Sampling in 1-Bit Massive MIMO Systems**
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.
IEEE International Conference on Communications (ICC), Paris, France, 21 - 25 May 2017
- XVI. **Quantifying The Improvement of MMSE Equalizers by Faster Sampling Rates**
Balevi E., YILMAZ A. Ö.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XVII. **A Novel Practical CP Based Mismatched MMSE Equalization**
Balevi E., YILMAZ A. Ö.
IEEE Wireless Communications and Networking Conference (WCNC), San-Francisco, Costa Rica, 19 - 22 March 2017
- XVIII. **Diversity performance of microstrip patch antennas placed on human body at ISM and MBAN frequencies**
Ozturk M. A. , Tamer U., YILMAZ A. Ö. , Ozdemir T., KAYA İ.
International Conference on Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH), Sarajevo, Bosnia And Herzegovina, 16 - 18 March 2017, vol.62, pp.698-704
- XIX. **Wireless Body Area Network Studies for Telemedicine Applications Using IEEE 802.15.6 Standard**
Ozderya H. Y. , ERDÖL H., KAYIKÇIOĞLU T., Yilmaz A. O. , KAYA İ.
International Conference on Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH), Sarajevo,

Bosnia And Herzegovina, 16 - 18 March 2017, vol.62, pp.666-670

- XX. **Optimized Asymmetric Cooperation for Downlink Cloud Radio Access Network under per-Base Station Data Transfer Constraint**
Kadan F. E. , YILMAZ A. Ö.
IEEE International Conference on Communications (ICC) / Wireless Communications Symposium / 3rd Workshop on Optical Wireless Communications (OWC), Paris, France, 21 - 25 May 2017, pp.132-137
- XXI. **A New Sampling Method for Massive MIMO Systems**
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XXII. **1 bit Nicemlemeli Çok Büyük Çoklu Girdili Çoklu Çıktılı Sistemlerde Aşırı Örnekleme**
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.
Aselsan HBT Çalıştayı, Turkey, 14 October 2016
- XXIII. **Güç Yükselticinin Büyük Yıldız Kare Dördün Genlik Kiplenimi QAM Üzerine Etkileri ve Çözüm Önerisi**
GÜLGÜN Z., YILMAZ A. Ö.
Aselsan HBT Çalıştayı, Turkey, 14 October 2016
- XXIV. **Tam Çoklama Kablosuz Haberleşme**
öncel f. a. , YILMAZ A. Ö.
URSI-TÜRKİYE'2016 VIII. Bilimsel Kongresi, Turkey, 1 - 03 September 2016
- XXV. **Yeni Nesil Çoklu Taşıyıcılı Kipleme Çeşitlerinin Yükselteç Doğrusalsızlığı Altında Karşılaştırılması**
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.
SİU 2016, Turkey, 16 - 19 May 2016
- XXVI. **Comparison of New Multi-carrier Modulation Schemes under Amplifier Nonlinearity**
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.249-252
- XXVII. **Doppler Capable FMCW Cloud Detection Radar**
Coskun S., Celik M., YILMAZ A. Ö. , Koc S.
Conference on Remote Sensing of Clouds and the Atmosphere XX, Toulouse, France, 23 - 24 September 2015, vol.9640
- XXVIII. **Polarimetrik FMCW Meteoroloji Radarı**
çoşkun s., YILMAZ A. Ö. , KOÇ S. S. , çelik m.
SİU 2015, Turkey, 16 - 19 May 2015
- XXIX. **Polarimetric FMCW Weather Radar**
Coskun S., YILMAZ A. Ö. , KOÇ S. S. , Celik M.
23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.200-203
- XXX. **Çok Kullanıclı Çok Girişli Çok Çıkışlı Sistemlerde Hüzmeleme Tekniklerinin RF Bozulmaları ile Analizi**
YILMAZ A. Ö. , ufuk t.
2015 IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Turkey, 16 - 19 May 2015
- XXXI. **Performance Analysis of Beamforming Techniques in MU-MIMO Systems with Residual RF Impairments**
Tamer U., SUNU C., AKTAŞ E., YILMAZ A. Ö.
23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1631-1634
- XXXII. **MIMO Communication Systems Using Hierarchical Modulation**
Ugur Y., YILMAZ A. Ö.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.758-761
- XXXIII. **A Low-Complexity Graph-Based LMMSE Receiver Designed for Colored Noise Induced by FTN-Signaling**
Sen P., Aktas T., YILMAZ A. Ö.

IEEE Wireless Communications and Networking Conference (WCNC), İstanbul, Turkey, 6 - 09 April 2014, pp.642-647

- XXXIV. **ISI channel equalizers based on the factor graphs for M-QAM signalling** **M-QAM kipleme için garpan gizge temelli ISI kanal denkleştiriciler**
Sen P., Gelincik S., Aktas T., YILMAZ A. Ö.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XXXV. **An efficient ungerboeck type MAP receiver for multi-user channel with M-Ary quasi orthogonal signaling** **M-Ary yaklaşık dikgen sinyalleşme ile çoklu erişim için etkin ungerboeck tipinde MAP alicisi**
GÜVENSEN G. M. , TANIK Y., YILMAZ A. Ö.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XXXVI. **Neighbor discovery in network with directional antennas** **Yönlü antenli ağlarda komşu tespiti**
Bilgin Y. A. , YILMAZ A. Ö.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XXXVII. **Analysis of the performance of network coding using the sampling property of Q-function** **Āg Kodlama için q-fonksiyonun örnek alma özelliğinden yararlanarak başarımların analizi**
Aktas T., Yilmaz A. Ö. , Aktas E.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XXXVIII. **Generalizing the Sampling Property of the Q-function for Error Rate Analysis of Cooperative Communication in Fading Channels-**
Aktas T., YILMAZ A. Ö. , Aktas E.
IEEE International Symposium on Information Theory (ISIT), İstanbul, Turkey, 7 - 12 July 2013, pp.46-47
- XXXIX. **An Efficient Ungerboeck Type MAP Receiver for Multi-User Channel with M - ary Quasi Orthogonal Signaling**
GÜVENSEN G. M. , TANIK Y., YILMAZ A. Ö.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XL. **A comparison of TSTD and STBCs over block-fading and time-varying MISO channels**
Köken E., YILMAZ A. Ö.
2012 IEEE Wireless Communications and Networking Conference, WCNC 2012, Paris, France, 1 - 04 April 2012, pp.602-607
- XLI. **Robust spread spectrum type communication with M-ary quasi orthogonal signaling for wireless fading channels** **M-ary yaklaşık dikgen sinyalleşme ile yayılı spektruma sahip sistemler için etkin telsiz haberleşme**
GÜVENSEN G. M. , TANIK Y., YILMAZ A. Ö.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012
- XLII. **A diversity and coding gain analysis for the cooperative wireless communication channel under fading using sampling property of the Q-function** **İşbirlikli kablosuz haberleşmede sönümlenmeli kanal için Q-fonksiyonunun örnekleme özelliğinden yararlanan bir çeşitleme ve kodlama kazancı analizi**
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