

# Prof. ALİ ÖZGÜR YILMAZ

## Personal Information

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## Education Information

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

Undergraduate, 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, Department Of Electrical And Electronics Engineering, 2015 - Continues

Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2010 - 2015

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2003 - 2010

## Courses

TELECOMMUNICATIONS II, Undergraduate, 2019 - 2020

Wireless Communications, Postgraduate, 2020 - 2021

ENGINEERING DESIGN II, Undergraduate, 2019 - 2020

Signals and Systems, Undergraduate, 2019 - 2020

ENGINEERING DESIGN I, Undergraduate, 2019 - 2020

## Advising Theses

YILMAZ A. Ö. , Detection of high order M-ARY QAM symbols under transmitter nonlinearities, Postgraduate, 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,

Postgraduate, 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, Postgraduate, Y.ALPER(Student), 2016

YILMAZ A. Ö. , On self-interference cancellation in wireless full duplex, Postgraduate, 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, Postgraduate, Y.CAN(Student), 2015

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

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

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

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

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

YILMAZ A. Ö. , ÇİLOĞLU T., Implementation of an underwater acoustic FSK system and investigation of the effects of surface reflections /, Postgraduate, 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, Postgraduate, K.ERKAN(Student), 2014

YILMAZ A. Ö. , TANIK Y., 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, Postgraduate, Y.UĞUR(Student), 2014

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

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

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

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

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

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

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

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

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

YILMAZ A. Ö. , A comparison of time-switched transmit diversity and space-time coded systems over time-varying miso channels, Postgraduate, 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, Postgraduate, G.YENİHAYAT(Student), 2011

YILMAZ A. Ö. , Blind channel estimation based on the Lloyd-Max algorithm in narrowband fading channels and jamming, Postgraduate, 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, Postgraduate, M.VURAL(Student), 2010

YILMAZ A. Ö. , MMSE based iterative turbo equalization for antenna switching systems, Postgraduate, R.Ali(Student), 2010

YILMAZ A. Ö. , Spectral and statistical analyses of experimental radar clutter data, Postgraduate, N.DENİZ(Student), 2010

YILMAZ A. Ö. , MMSE based iterative turbo equalization for antenna switching systems, Postgraduate, R.ALİ(Student), 2010

YILMAZ A. Ö. , Near capacity operating practical transceivers for wireless fading channels, Postgraduate, G.MUZAFFER(Student), 2009

YILMAZ A. Ö. , Multi-transducer ultrasonic communication, Postgraduate, E.Ersagun(Student), 2009

YILMAZ A. Ö. , Performance of parallel decodable turbo and repeat accumulate codes implemented on an FPGA platform, Postgraduate, E.ERDİN(Student), 2009

YILMAZ A. Ö. , Performance of parallel decodable turbo and repeat-accumulate codes implemented on an fpga platform, Postgraduate, E.Erdin(Student), 2009

YILMAZ A. Ö. , FPGA implementation of jointly operating channel estimator and parallelized decoder, Postgraduate, 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, Postgraduate, T.Taylan(Student), 2009

YILMAZ A. Ö. , CANDAN Ç., A study of precoding schemes for OFDM systems, Postgraduate, F.SELCEN(Student), 2008

YILMAZ A. Ö. , Interference suppression by using space-time adaptive processing for airborne radar, Postgraduate, Ö.ERYİĞİT(Student), 2008

YILMAZ A. Ö. , UYSAL BIYIKOĞLU E., Subcarrier allocation in OFDMA systems with time varying channel and packet arrivals, Postgraduate, E.TOKTAŞ(Student), 2008

YILMAZ A. Ö. , Parallel decodable channel coding implemented on a MIMO testbed, Postgraduate, T.AKTAŞ(Student), 2007

YILMAZ A. Ö. , Parallelized architectures for low latency turbo structures, Doctorate, O.Gazi(Student), 2007

YILMAZ A. Ö. , Successive target cancelation for radar waveform sidelobe reduction, Postgraduate, O.HALİLOĞLU(Student), 2006

YILMAZ A. Ö. , Implementation of a digital signal synthesizer with high spurious free dynamic range, Postgraduate, A.KILIÇ(Student), 2006

YILMAZ A. Ö. , Soft decoding of convolutional product codes on an FPGA platform, Postgraduate, M.SANLI(Student), 2005

YILMAZ A. Ö. , BAYKAL B., Sub-graph approach in iterative sum-product algorithm, Postgraduate, 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. **A Theoretical Performance Bound for Joint Beamformer Design of Wireless Fronthaul and Access Links in Downlink C-RAN**  
Kadan F. E. , Yilmaz A. Ö.  
IEEE Transactions on Wireless Communications, vol.21, no.4, pp.2177-2192, 2022 (Journal Indexed in SCI Expanded)
- II. **A Bound Based Method for Beamformer Design in Downlink Cloud Radio Access Networks**  
Kadan F. E. , YILMAZ A. Ö.  
IEEE COMMUNICATIONS LETTERS, vol.25, no.10, pp.3350-3354, 2021 (Journal Indexed in SCI)
- III. **A Reduced Complexity Ungerboeck Receiver for Quantized Wideband Massive SC-MIMO**

ÜÇÜNCÜ A. B. , GÜVENSEN G. M. , YILMAZ A. Ö.

IEEE Transactions on Communications, vol.69, no.7, pp.4921-4936, 2021 (Journal Indexed in SCI)

- IV. **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)
- V. **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 Expanded)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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. **A Fully-Implantable Mems-Based Autonomous Cochlear Implant**  
KÜLAH H., Ulusah H., Chamanian S., BATU A., UĞUR M. B. , YÜKSEL M. B. , YILMAZ A. Ö. , YİÇİT H., Koyuncuoglu A., TOPÇU Ö., et al.  
35th IEEE International Conference on Micro Electro Mechanical Systems Conference, MEMS 2022, Tokyo, Japan, 9 - 13 January 2022, vol.2022-January, pp.396-399
- II. **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
- 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. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **Uplink Performance Analysis of Oversampled Wideband Massive MIMO with One-Bit ADCs**  
ÜÇÜNCÜ A. B. , Yılmaz A. Ö.  
88th IEEE Vehicular Technology Conference, VTC-Fall 2018, Illinois, United States Of America, 27 - 30 August 2018
- X. **A Novel Transceiver Architecture for Highly Dispersive NOMA Channels**  
Güvensen G. M. , Tanık Y., Yılmaz A. Ö.  
2018 IEEE 87th Vehicular Technology Conference (VTC Spring), Porto, Portugal, 3 - 06 June 2018, pp.1-6
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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

- XVIII. **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
- XIX. **Wireless Body Area Network Studies for Telemedicine Applications Using IEEE 802.15.6 Standard**  
Ozderya H. Y. , ERDÖL H., KAYIKÇIOĞLU T., Yılmaz 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. **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
- XXI. **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
- XXII. **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
- 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. **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
- XXV. **Tam Çoklama Kablosuz Haberleşme**  
öncel f. a. , YILMAZ A. Ö.  
URSI-TÜRKİYE'2016 VIII. Bilimsel Kongresi, Turkey, 1 - 03 September 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. **Yeni Nesil Çoklu Taşıyıcılı Kipleme Çeşitlerinin Yükselteç Doğrusalsızlığı Altında Karşılaştırılması**  
ÜÇÜNCÜ A. B. , YILMAZ A. Ö.  
SİU 2016, Turkey, 16 - 19 May 2016
- XXVIII. **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
- XXIX. **Polarimetrik FMCW Meteoroloji Radarı**  
çoşkun s., YILMAZ A. Ö. , KOÇ S. S. , çelik m.  
SİU 2015, Turkey, 16 - 19 May 2015
- XXX. **Çok Kullanıcı 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.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,

pp.1631-1634

- XXXII. **Polarimetric FMCW Weather Radar**  
Coskun S., YILMAZ A. Ö. , KOÇ S. S. , Celik M.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,  
pp.200-203
- XXXIII. **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
- XXXIV. **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
- XXXV. **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
- XXXVI. **Analysis of the performance of network coding using the sampling property of Q-function Ağ Kodlama için q-fonksiyonun örnek alma özelliğinden yararlanarak başarımların analizi**  
Aktaş T., Yılmaz A. Ö. , Aktaş E.  
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XXXVII. **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 alıcısı**  
GÜVENSEN G. M. , TANIK Y., YILMAZ A. Ö.  
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013
- XXXVIII. **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
- XXXIX. **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.  
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## **Entrepreneurship Activities**

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## **Non Academic Experience**

Company, Anketek Elektronik Teknoloji San. Tic. Ltd. Şti., Anketek Elektronik Teknoloji San. Tic. Ltd. Şti.