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### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Boston University, Mühendislik Fakültesi, Elektrik ve Bilgisayar Mühendisliği Bölümü, Amerika Birleşik Devletleri 1989 - 1993

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1987 - 1989

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1983 - 1987

### Yaptığı Tezler

Doktora, Two-band QMF Banks, Butterworth Wavelets, Time-Varying Filter Banks and Adaptive Echo Cancellation., Boston University, Ecs, 1993

Yüksek Lisans, A Medical imaging system for the estimation of vessel diameter and left ventricular volume, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1989

### Araştırma Alanları

Elektrik-Elektronik Mühendisliği

### Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2007 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2001 - 2007

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 1998 - 2001

Yrd. Doç. Dr., Ankara Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1998

## Yönetilen Tezler

- TUNCER T. E., Direction of arrival estimation by using alternating direction method of multipliers in distributed sensor array networks, Yüksek Lisans, E.NURBAŞ(Öğrenci), 2022
- TUNCER T. E., Phased-COSTAS coding of MIMO radar waveforms for transmit beamforming using generalized ambiguity functions, Yüksek Lisans, O.ONUR(Öğrenci), 2021
- TUNCER T. E., Sensör dizilerinde hatalı sensörler ile işaret geliş açısı kestirimi, Yüksek Lisans, T.Külbay(Öğrenci), 2020
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- TUNCER T. E., Beamforming for energy harvesting and multi-user communications, Doktora, Ö.TUĞFE(Öğrenci), 2018
- TUNCER T. E., Path planning and localization for mobile anchor based wireless sensor networks, Yüksek Lisans, E.ERDEMİR(Öğrenci), 2017
- TUNCER T. E., Direction finding in the presence of array imperfections, model mismatches and multipath, Doktora, A.MUSAB(Öğrenci), 2016
- TUNCER T. E., Performance of a non-linear adaptive beamformer algorithm for signal-of-interest extraction, Yüksek Lisans, Ö.OĞUZ(Öğrenci), 2015
- TUNCER T. E., Performance analysis of direction-of-arrival estimation algorithms in the presence of array imperfections and multipath for different antenna array geometries, Yüksek Lisans, M.ÇALIŞKAN(Öğrenci), 2014
- TUNCER T. E., Positioning performances of single frequency GPS, GLONASS and carrier based algorithms in a software platform, Yüksek Lisans, C.SAVAŞ(Öğrenci), 2014
- TUNCER T. E., Optimization techniques for nonconvex problems and optimum discrete transmit beamformer design, Yüksek Lisans, Ö.TUĞFE(Öğrenci), 2014
- TUNCER T. E., Sparse sensor array design via constrained optimization, Yüksek Lisans, G.GÖK(Öğrenci), 2013
- TUNCER T. E., Polarization diversity in channel modeling for MIMO systems, Yüksek Lisans, B.SÖKER(Öğrenci), 2013
- TUNCER T. E., Hava yollu akustik veri iletimi, Yüksek Lisans, K.Önder(Öğrenci), 2012
- TUNCER T. E., Real time implementation of an acoustic radar on field programmable gate arrays, Yüksek Lisans, M.ARSLAN(Öğrenci), 2012
- TUNCER T. E., Comparison of emitter localization methods with a moving platform in three dimensions, Yüksek Lisans, B.TUFAN(Öğrenci), 2012
- TUNCER T. E., Online calibration of sensor arrays using higher order statistics, Doktora, M.AKTAŞ(Öğrenci), 2012
- TUNCER T. E., Geliş-açısı kestirimi için anten dizilerinin müşterek bağlaşım kalibrasyonu, Yüksek Lisans, T.Aksoy(Öğrenci), 2012
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- TUNCER T. E., Comparison and evaluation of three dimensional passive source localization techniques, Yüksek Lisans, E.BATUMAN(Öğrenci), 2010
- TUNCER T. E., Code aided frame synchronization for frequency selective channels, Yüksek Lisans, U.UTKU(Öğrenci), 2010
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- TUNCER T. E., Blind and semi-blind channel order estimation in SIMO systems, Doktora, S.KARAKÜTÜK(Öğrenci), 2009
- TUNCER T. E., Sar tekniklerinin ultrasonik test ortamında uygulanması, Yüksek Lisans, G.Solak(Öğrenci), 2008
- TUNCER T. E., Feature set evaluation for a generic missile detection system, Yüksek Lisans, K.SELÇUK(Öğrenci), 2007
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- TUNCER T. E., Kuzey bulma tekniklerinin gerçekleşmesi, Yüksek Lisans, P.Oğuz(Öğrenci), 2006
- TUNCER T. E., Improvements in doa estimation by array interpolation in non-uniform linear arrays, Yüksek Lisans, T.KAYA(Öğrenci), 2006
- TUNCER T. E., Signal reconstruction from nonuniform samples, Yüksek Lisans, B.SERDAROĞLU(Öğrenci), 2005

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Digital Signal Processing: A Review Journal, cilt.154, 2024 (SCI-Expanded)
- II. **MIMO radar beampattern design by using Phased-Costas waveforms with PAR constraints employing a generalized ambiguity function**  
Celik O. O., TUNCER T. E.  
Digital Signal Processing: A Review Journal, cilt.135, 2023 (SCI-Expanded)
- III. **Collaborative Direction of Arrival estimation by using Alternating Direction Method of Multipliers in distributed sensor array networks employing Sparse Bayesian Learning framework**  
Nurbas E., Onat E., TUNCER T. E.  
DIGITAL SIGNAL PROCESSING, cilt.130, 2022 (SCI-Expanded)
- IV. **Metric scale and angle estimation in monocular visual odometry with multiple distance sensors**  
Ölmez B., TUNCER T. E.  
Digital Signal Processing: A Review Journal, cilt.117, 2021 (SCI-Expanded)
- V. **Estimation of partially occluded 2D human joints with a Bayesian approach**  
Dursun A. A., TUNCER T. E.  
Digital Signal Processing: A Review Journal, cilt.114, 2021 (SCI-Expanded)
- VI. **Improved ADMM-based algorithms for multi-group multicasting in large-scale antenna systems with extension to hybrid beamforming**  
Demir Ö. T., TUNCER T. E.  
Digital Signal Processing: A Review Journal, cilt.93, ss.43-57, 2019 (SCI-Expanded)
- VII. **Robust Optimum and Near-Optimum Beamformers for Decode-and-Forward Full-Duplex Multi-Antenna Relay With Self-Energy Recycling**  
Demir O. T., TUNCER T. E.  
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.18, sa.3, ss.1566-1580, 2019 (SCI-Expanded)
- VIII. **Path planning for mobile-anchor based wireless sensor network localization: Static and dynamic schemes**  
Erdemir E., TUNCER T. E.  
AD HOC NETWORKS, cilt.77, ss.1-10, 2018 (SCI-Expanded)
- IX. **Optimum QoS-Aware Beamformer Design for Full-Duplex Relay With Self-Energy Recycling**  
DEMİR Ö. T., TUNCER T. E.  
IEEE WIRELESS COMMUNICATIONS LETTERS, cilt.7, sa.1, ss.122-125, 2018 (SCI-Expanded)
- X. **Max-Min Fair Resource Allocation for SWIPT in Multi-Group Multicast OFDM Systems**  
DEMİR Ö. T., TUNCER T. E.  
IEEE COMMUNICATIONS LETTERS, cilt.21, sa.11, ss.2508-2511, 2017 (SCI-Expanded)
- XI. **Antenna Selection and Hybrid Beamforming for Simultaneous Wireless Information and Power Transfer in Multi-Group Multicasting Systems**  
DEMİR Ö. T., TUNCER T. E.  
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, cilt.15, sa.10, ss.6948-6962, 2016 (SCI-Expanded)
- XII. **2-D DOA and mutual coupling coefficient estimation for arbitrary array structures with single and**

**multiple snapshots**

Elbir A. M., TUNCER T. E.

DIGITAL SIGNAL PROCESSING, cilt.54, ss.75-86, 2016 (SCI-Expanded)

- XIII. **2-D DOA estimation in case of unknown mutual coupling for multipath signals**  
Filik T., TUNCER T. E.  
MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING, cilt.27, sa.1, ss.69-86, 2016 (SCI-Expanded)
- XIV. **Optimum discrete phase-only multicast beamforming with joint antenna and user selection in cognitive radio networks**  
DEMİR Ö. T., TUNCER T. E.  
DIGITAL SIGNAL PROCESSING, cilt.46, ss.81-96, 2015 (SCI-Expanded)
- XV. **Optimum discrete transmit beamformer design**  
DEMİR Ö. T., TUNCER T. E.  
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- XVI. **Far-field DOA estimation and near-field localization for multipath signals**  
Elbir A. M., TUNCER T. E.  
RADIO SCIENCE, cilt.49, sa.9, ss.765-776, 2014 (SCI-Expanded)
- XVII. **Calibration of antenna arrays for aeronautical vehicles on ground**  
Elbir A. M., TUNCER T. E.  
AEROSPACE SCIENCE AND TECHNOLOGY, cilt.30, sa.1, ss.18-25, 2013 (SCI-Expanded)
- XVIII. **Sectorized approach and measurement reduction for mutual coupling calibration of non-omnidirectional antenna arrays**  
Aksoy T., TUNCER T. E.  
RADIO SCIENCE, cilt.48, sa.2, ss.102-110, 2013 (SCI-Expanded)
- XIX. **Measurement reduction for mutual coupling calibration in DOA estimation**  
Aksoy T., TUNCER T. E.  
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- XX. **2-D PAIRED DIRECTION-OF-ARRIVAL ANGLE ESTIMATION WITH TWO PARALLEL UNIFORM LINEAR ARRAYS**  
Filik T., TUNCER T. E.  
INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING INFORMATION AND CONTROL, cilt.7, sa.6, ss.3269-3279, 2011 (SCI-Expanded)
- XXI. **Channel Matrix Recursion for Blind Effective Channel Order Estimation**  
Karakutuk S., TUNCER T. E.  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.59, sa.4, ss.1642-1653, 2011 (SCI-Expanded)
- XXII. **Iterative HOS-SOS (IHOSS) Algorithm for Direction-of-Arrival Estimation and Sensor Localization**  
Aktas M., TUNCER T. E.  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.58, sa.12, ss.6181-6194, 2010 (SCI-Expanded)
- XXIII. **A fast and automatically paired 2-D direction-of-arrival estimation with and without estimating the mutual coupling coefficients**  
Filik T., TUNCER T. E.  
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- XXIV. **No-search algorithm for direction of arrival estimation**  
TUNCER T. E., ÖZGEN M. T.  
RADIO SCIENCE, cilt.44, 2009 (SCI-Expanded)
- XXV. **Uniform and nonuniform V-shaped planar arrays for 2-D direction-of-arrival estimation**  
Filik T., TUNCER T. E.  
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- XXVI. **Direction of arrival estimation for nonuniform linear arrays by using array interpolation**  
Tuncer T. E., Yasar T. K., Friedlander B.  
RADIO SCIENCE, cilt.42, sa.4, 2007 (SCI-Expanded)
- XXVII. **Block-based methods for the reconstruction of finite-length signals from nonuniform samples**

- Tuncer T. E.  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.55, sa.2, ss.530-541, 2007 (SCI-Expanded)
- XXVIII. **LSE and MSE optimum partition-based FIR-IIR deconvolution filters with best delay**  
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IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.53, sa.10, ss.3780-3790, 2005 (SCI-Expanded)
- XXIX. **Optimum and suboptimum blind channel and symbol estimation for SISO channels**  
TUNCER T. E.  
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.12, sa.3, ss.181-201, 2004 (SCI-Expanded)
- XXX. **Deconvolution and preequalization with best delay LS inverse filters**  
Tuncer T.  
SIGNAL PROCESSING, cilt.84, sa.11, ss.2207-2219, 2004 (SCI-Expanded)
- XXXI. **Object reconstruction from in-line Fresnel holograms without explicit depth focusing**  
Ozgen M., Tuncer T.  
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- XXXII. **Optimum Nyquist filters with controlled time and frequency characteristics**  
Tuncer T.  
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- XXXIII. **A new method for D-dimensional exact deconvolution**  
Tuncer T.  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.47, sa.5, ss.1324-1334, 1999 (SCI-Expanded)
- XXXIV. **Signal injection with perceptual criteria**  
TUNCER T. E.  
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.6, sa.2, ss.89-106, 1998 (SCI-Expanded)
- XXXV. **INTERPOLATED IIR MTH-BAND FILTER DESIGN WITH ALLPASS SUBFILTERS**  
TUNCER T. E., NGUYEN T.  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.43, sa.8, ss.1986-1990, 1995 (SCI-Expanded)
- XXXVI. **GENERAL-ANALYSIS OF 2-BAND QMF BANKS**  
TUNCER T. E., NGUYEN T.  
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.43, sa.2, ss.544-548, 1995 (SCI-Expanded)

## **Kitap & Kitap Bölümleri**

- I. **Klasik ve Modern Yön Kestirimi**  
Tuncer T. E. (Editör)  
AP, London , London, 2009
- II. **Narrowband and Wideband Direction-of-Arrival Estimation For Uniform And Nonuniform Linear Arrays**  
Tuncer T. E.  
Klasik ve Modern Yön Kestirimi, Temel Engin Tuncer, Benjamin Friedlander, Editör, Elsevier Science, Oxford/Amsterdam , London, ss.1-15, 2009

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Improved ADMM-Based Algorithm for Multi-Group Multicast Beamforming in Large-Scale Antenna Systems**  
DEMİR Ö. T., TUNCER T. E.  
European Signal Processing Conference (EUSIPCO), Rome, İtalya, 3 - 07 Ağustos 2018, ss.652-656
- II. **A New Beamformer Design Method for Multi-Group Multicasting by Enforcing Constructive Interference**

DEMİR Ö. T., TUNCER T. E.

European Signal Processing Conference (EUSIPCO), Rome, İtalya, 3 - 07 Ağustos 2018, ss.632-636

- III. **Path Planning and Localization for Mobile Anchor Based Wireless Sensor Networks**  
Erdemir E., TUNCER T. E.  
25th European Signal Processing Conference (EUSIPCO), Yunanistan, 28 Ağustos - 02 Eylül 2017, ss.131-135
- IV. **SWIPT for Max-Min Fair Multi-Group Multicast Beamforming Through Power Splitting**  
DEMİR Ö. T., TUNCER T. E.  
IEEE Wireless Communications and Networking Conference (WCNC), San-Francisco, Kostarika, 19 - 22 Mart 2017
- V. **An Adaptive Path Planning Algorithm for Mobile-Anchor Based Wireless Sensor Networks**  
Erdemir E. N., TUNCER T. E.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- VI. **Single Snapshot DOA Estimation in the Presence of Mutual Coupling for Arbitrary Array structures**  
ELBİR A. M., TUNCER T. E.  
IEEE 9th Sensor Array and Multichannel Signal Processing Workshop (SAM 2016), 10 - 16 Temmuz 2016
- VII. **Compressed Sensing For Single Snapshot Direction Finding In The Presence of Mutual Coupling**  
Elbir A. M., TUNCER T. E.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1109-1112
- VIII. **Two-Bit Hybrid Beamforming for Broadcasting**  
DEMİR Ö. T., TUNCER T. E.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1733-1736
- IX. **Cooperative Localization In One-Hop And Multi-Hop Wireless Sensor Networks Using Alternating Minimization Algorithm**  
Erdemir E. N., TUNCER T. E.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1357-1360
- X. **Direction-of-Arrival and Mutual Coupling Coefficient Estimation With A Single Observation For Arbitrary Array Structures**  
Elbir A. M., TUNCER T. E.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1105-1108
- XI. **Relay-Assisted Beamforming for Multicast Systems with Energy Harvesting Capability**  
DEMİR Ö. T., TUNCER T. E.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1865-1868
- XII. **HYBRID BEAMFORMING WITH TWO BIT RF PHASE SHIFTERS IN SINGLE GROUP MULTICASTING**  
DEMİR Ö. T., TUNCER T. E.  
IEEE International Conference on Acoustics, Speech, and Signal Processing, Shanghai, Çin, 20 - 25 Mart 2016, ss.3271-3275
- XIII. **DISTRIBUTED BEAMFORMING IN RELAY NETWORKS FOR ENERGY HARVESTING MULTI-GROUP MULTICAST SYSTEMS**  
DEMİR Ö. T., TUNCER T. E.  
IEEE International Conference on Acoustics, Speech, and Signal Processing, Shanghai, Çin, 20 - 25 Mart 2016, ss.3296-3300
- XIV. **JOINT OPTIMIZATION OF TRANSMIT AND RELAY BEAMFORMER FOR SINGLE GROUP MULTICAST TRANSMISSION**  
DEMİR Ö. T., TUNCER T. E.  
23rd European Signal Processing Conference (EUSIPCO), Nice, Fransa, 31 Ağustos - 04 Eylül 2015, ss.1361-1365
- XV. **SPARSE SUPPORT RECOVERY FOR DOA ESTIMATION IN THE PRESENCE OF MUTUAL COUPLING**  
Elbir A. M., TUNCER T. E.

- 23rd European Signal Processing Conference (EUSIPCO), Nice, Fransa, 31 Ağustos - 04 Eylül 2015, ss.1366-1370
- XVI. **MULTI-GROUP MULTICAST BEAMFORMING FOR SIMULTANEOUS WIRELESS INFORMATION AND POWER TRANSFER**  
DEMİR Ö. T., TUNCER T. E.  
23rd European Signal Processing Conference (EUSIPCO), Nice, Fransa, 31 Ağustos - 04 Eylül 2015, ss.1356-1360
- XVII. **SOURCE LOCALIZATION WITH SPARSE RECOVERY FOR COHERENT FAR- AND NEAR-FIELD SIGNALS**  
Elbir A. M., TUNCER T. E.  
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- XVIII. **DIRECTION FINDING AND LOCALIZATION FOR FAR-FIELD SOURCES WITH NEAR-FIELD MULTIPATH REFLECTIONS**  
Elbir A. M., TUNCER T. E.  
IEEE Signal Processing and Signal Processing Education Workshop (SP/SPE), Utah, Amerika Birleşik Devletleri, 9 - 12 Ağustos 2015, ss.130-135
- XIX. **Discrete Broadcast Beamforming with Antenna and User Selection**  
DEMİR Ö. T., TUNCER T. E.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.1461-1464
- XX. **Discrete Relay Beamforming for Broadcasting with Relay Selection**  
DEMİR Ö. T., TUNCER T. E.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.2138-2141
- XXI. **Wireless Sensor Network Localization Using Alternating Minimization Algorithm**  
Erdemir E. N., TUNCER T. E.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.2191-2194
- XXII. **Multicast Beamforming with Antenna Selection Using Alternating Maximization**  
DEMİR Ö. T., TUNCER T. E.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.1457-1460
- XXIII. **Performance of a Non-Linear Adaptive Beamforming Algorithm for Signal-of-Interest Extraction**  
Oguz O., TUNCER T. E.  
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- XXIV. **Sparse Signal Recovery for Localization of Coherent Far- and Near-Field Signals**  
Elbir A. M., TUNCER T. E.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Türkiye, 16 - 19 Mayıs 2015, ss.899-902
- XXV. **Evre uyumlu uzak ve yakın alan kaynakların konum kestirimi için seyrek işaret geri oluşturma**  
TUNCER T. E., ELBİR A. M.  
SİU-2015, Türkiye, 16 - 19 Mayıs 2015
- XXVI. **Hedef sinyal çıkarımı için doğrusal olmayan uyarlamalı bir hüme şekillendirme algoritmasının başarımı**  
oğuz ö., TUNCER T. E.  
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- XXVII. **Almaşık enküçültme algoritması kullanarak kablosuz sensor ağlarında konumlandırma**  
TUNCER T. E., ERDEMİR E.  
SİU-2015, Türkiye, 16 - 19 Mayıs 2015
- XXVIII. **Almaşık enbüyütme kullanarak anten seçimi ile çoğa gönderim hüme şekillendirme**  
TUNCER T. E., DEMİR Ö. T.  
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- XXIX. **Anten ve kullanıcı seçimi ile ayrık tüme gönderim hüzme tasarımı**  
TUNCER T. E., DEMİR Ö. T.  
SİU-2015, Türkiye, 16 - 19 Mayıs 2015
- XXX. **Röle seçimi ile tüme gönderim için ayrık röle hüzme şekillendirme**  
TUNCER T. E., DEMİR Ö. T.  
SİU-2015, Türkiye, 16 - 19 Mayıs 2015
- XXXI. **OPTIMUM PHASE-ONLY DISCRETE BROADCAST BEAMFORMING WITH ANTENNA AND USER SELECTION IN INTERFERENCE LIMITED COGNITIVE RADIO NETWORKS**  
DEMİR Ö. T., TUNCER T. E.  
40th IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Brisbane, Avustralya, 19 - 24 Nisan 2015, ss.2724-2728
- XXXII. **MULTICAST BEAMFORMING WITH ANTENNA SELECTION USING EXACT PENALTY APPROACH**  
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## **Bilimsel Dergilerdeki Faaliyetler**

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