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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

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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

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- 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
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- 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
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- TUNCER T. E., Geliş-açısı kestirimi için anten dizilerinin müşterek bağlaşım kalibrasyonu, Yüksek Lisans, T.Aksoy(Öğrenci), 2012
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- II. **MIMO radar beampattern design by using Phased-Costas waveforms with PAR constraints employing a generalized ambiguity function**
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- IV. **Metric scale and angle estimation in monocular visual odometry with multiple distance sensors**
Ölmez B., TUNCER T. E.
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- V. **Estimation of partially occluded 2D human joints with a Bayesian approach**
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- VI. **Improved ADMM-based algorithms for multi-group multicasting in large-scale antenna systems with extension to hybrid beamforming**
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- VII. **Robust Optimum and Near-Optimum Beamformers for Decode-and-Forward Full-Duplex Multi-Antenna Relay With Self-Energy Recycling**
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- VIII. **Path planning for mobile-anchor based wireless sensor network localization: Static and dynamic schemes**
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- IX. **Optimum QoS-Aware Beamformer Design for Full-Duplex Relay With Self-Energy Recycling**
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- X. **Max-Min Fair Resource Allocation for SWIPT in Multi-Group Multicast OFDM Systems**
DEMİR Ö. T., TUNCER T. E.
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- XI. **Antenna Selection and Hybrid Beamforming for Simultaneous Wireless Information and Power Transfer in Multi-Group Multicasting Systems**
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- XII. **2-D DOA and mutual coupling coefficient estimation for arbitrary array structures with single and**

multiple snapshots

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- XIV. **Optimum discrete phase-only multicast beamforming with joint antenna and user selection in cognitive radio networks**
DEMİR Ö. T., TUNCER T. E.
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- XV. **Optimum discrete transmit beamformer design**
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- XVI. **Far-field DOA estimation and near-field localization for multipath signals**
Elbir A. M., TUNCER T. E.
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- XVII. **Calibration of antenna arrays for aeronautical vehicles on ground**
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- XVIII. **Sectorized approach and measurement reduction for mutual coupling calibration of non-omnidirectional antenna arrays**
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- XIX. **Measurement reduction for mutual coupling calibration in DOA estimation**
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- XX. **2-D PAIRED DIRECTION-OF-ARRIVAL ANGLE ESTIMATION WITH TWO PARALLEL UNIFORM LINEAR ARRAYS**
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- XXI. **Channel Matrix Recursion for Blind Effective Channel Order Estimation**
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- XXII. **Iterative HOS-SOS (IHOSS) Algorithm for Direction-of-Arrival Estimation and Sensor Localization**
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- XXIII. **A fast and automatically paired 2-D direction-of-arrival estimation with and without estimating the mutual coupling coefficients**
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- XXIV. **No-search algorithm for direction of arrival estimation**
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- XXV. **Uniform and nonuniform V-shaped planar arrays for 2-D direction-of-arrival estimation**
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- XXVI. **Direction of arrival estimation for nonuniform linear arrays by using array interpolation**
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- XXVII. **Block-based methods for the reconstruction of finite-length signals from nonuniform samples**

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- XXVIII. **LSE and MSE optimum partition-based FIR-IIR deconvolution filters with best delay**
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- XXIX. **Optimum and suboptimum blind channel and symbol estimation for SISO channels**
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- XXX. **Deconvolution and preequalization with best delay LS inverse filters**
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- XXXI. **Object reconstruction from in-line Fresnel holograms without explicit depth focusing**
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- XXXII. **Optimum Nyquist filters with controlled time and frequency characteristics**
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- XXXIII. **A new method for D-dimensional exact deconvolution**
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- 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.
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- XXXVI. **GENERAL-ANALYSIS OF 2-BAND QMF BANKS**
TUNCER T. E., NGUYEN T.
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Kitap & Kitap Bölümleri

- I. **Klasik ve Modern Yön Kestirimi**
Tuncer T. E. (Editör)
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- II. **Narrowband and Wideband Direction-of-Arrival Estimation For Uniform And Nonuniform Linear Arrays**
Tuncer T. E.
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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.
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- II. **A New Beamformer Design Method for Multi-Group Multicasting by Enforcing Constructive Interference**

DEMİR Ö. T., TUNCER T. E.

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- III. **Path Planning and Localization for Mobile Anchor Based Wireless Sensor Networks**
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- IV. **SWIPT for Max-Min Fair Multi-Group Multicast Beamforming Through Power Splitting**
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- V. **An Adaptive Path Planning Algorithm for Mobile-Anchor Based Wireless Sensor Networks**
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- VI. **Single Snapshot DOA Estimation in the Presence of Mutual Coupling for Arbitrary Array structures**
ELBİR A. M., TUNCER T. E.
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- VII. **Compressed Sensing For Single Snapshot Direction Finding In The Presence of Mutual Coupling**
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- VIII. **Two-Bit Hybrid Beamforming for Broadcasting**
DEMİR Ö. T., TUNCER T. E.
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- IX. **Cooperative Localization In One-Hop And Multi-Hop Wireless Sensor Networks Using Alternating Minimization Algorithm**
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- X. **Direction-of-Arrival and Mutual Coupling Coefficient Estimation With A Single Observation For Arbitrary Array Structures**
Elbir A. M., TUNCER T. E.
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- XI. **Relay-Assisted Beamforming for Multicast Systems with Energy Harvesting Capability**
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- XII. **HYBRID BEAMFORMING WITH TWO BIT RF PHASE SHIFTERS IN SINGLE GROUP MULTICASTING**
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- XIII. **DISTRIBUTED BEAMFORMING IN RELAY NETWORKS FOR ENERGY HARVESTING MULTI-GROUP MULTICAST SYSTEMS**
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- XIV. **JOINT OPTIMIZATION OF TRANSMIT AND RELAY BEAMFORMER FOR SINGLE GROUP MULTICAST TRANSMISSION**
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- 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.
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- XVII. **SOURCE LOCALIZATION WITH SPARSE RECOVERY FOR COHERENT FAR- AND NEAR-FIELD SIGNALS**
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- XVIII. **DIRECTION FINDING AND LOCALIZATION FOR FAR-FIELD SOURCES WITH NEAR-FIELD MULTIPATH REFLECTIONS**
Elbir A. M., TUNCER T. E.
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- 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.
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- XXII. **Multicast Beamforming with Antenna Selection Using Alternating Maximization**
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- 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**
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- XXIV. **Sparse Signal Recovery for Localization of Coherent Far- and Near-Field Signals**
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- XXV. **Evre uyumlu uzak ve yakın alan kaynakların konum kestirimi için seyrek işaret geri oluşturma**
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- SİU-2015, Türkiye, 16 - 19 Mayıs 2015
- XXVI. **Hedef sinyal çıkarımı için doğrusal olmayan uyarlamalı bir hüme şekillendirme algoritmasının başarımı**
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- XXVII. **Almaşık enküçültme algoritması kullanarak kablosuz sensor ağlarında konumlandırma**
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- XXVIII. **Almaşık enbüyütme kullanarak anten seçimi ile çoğa gönderim hüme şekillendirme**
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- XXIX. **Anten ve kullanıcı seçimi ile ayrık tüme gönderim hüzme tasarımı**
TUNCER T. E., DEMİR Ö. T.
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- XXX. **Röle seçimi ile tüme gönderim için ayrık röle hüzme şekillendirme**
TUNCER T. E., DEMİR Ö. T.
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- XXXI. **OPTIMUM PHASE-ONLY DISCRETE BROADCAST BEAMFORMING WITH ANTENNA AND USER SELECTION IN INTERFERENCE LIMITED COGNITIVE RADIO NETWORKS**
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- XXXII. **MULTICAST BEAMFORMING WITH ANTENNA SELECTION USING EXACT PENALTY APPROACH**
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- XXXIII. **OPTIMUM DISCRETE DISTRIBUTED BEAMFORMING FOR SINGLE GROUP MULTICASTING RELAY NETWORKS WITH RELAY SELECTION**
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