

Prof.Dr. TEMEL ENGİN TUNCER

Kişisel Bilgiler

İş Telefonu: [+90 312 210 2348](tel:+903122102348)

Fax Telefonu: [+90 312 210 2304](tel:+903122102304)

E-posta: etuncer@metu.edu.tr

Web: <https://avesis.metu.edu.tr/etuncer>

Uluslararası Araştırmacı ID'leri

ScholarID: KCDj9skAAAAJ

ORCID: 0000-0003-1098-8828

Publons / Web Of Science ResearcherID: AAZ-9216-2020

ScopusID: 6603914250

Yoksis Araştırmacı ID: 110585

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
- TUNCER T. E., Çok gruplu çok yönlü rôle kanallarında girişim hizalama,, Yüksek Lisans, M.Akif(Öğrenci), 2019
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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
- 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
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- TUNCER T. E., Hava yolu akustik veri iletimi, Yüksek Lisans, K.Önder(Öğrenci), 2012
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- 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 müsterek bağışım kalibrasyonu,, Yüksek Lisans, T.Aksoy(Öğrenci), 2012
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **MIMO radar beampattern design by using Phased-Costas waveforms with PAR constraints employing a generalized ambiguity function**
Celik O. O., TUNCER T. E.
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- II. **Collaborative Direction of Arrival estimation by using Alternating Direction Method of Multipliers in distributed sensor array networks employing Sparse Bayesian Learning framework**
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- III. **Metric scale and angle estimation in monocular visual odometry with multiple distance sensors**
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- IV. **Estimation of partially occluded 2D human joints with a Bayesian approach**
Dursun A. A., TUNCER T. E.
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- V. **Improved ADMM-based algorithms for multi-group multicasting in large-scale antenna systems with extension to hybrid beamforming**
Demir Ö. T., TUNCER T. E.
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- VI. **Robust Optimum and Near-Optimum Beamformers for Decode-and-Forward Full-Duplex Multi-Antenna Relay With Self-Energy Recycling**
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- VII. **Path planning for mobile-anchor based wireless sensor network localization: Static and dynamic schemes**
Erdemir E., TUNCER T. E.
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- VIII. **Optimum QoS-Aware Beamformer Design for Full-Duplex Relay With Self-Energy Recycling**
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- IX. **Max-Min Fair Resource Allocation for SWIPT in Multi-Group Multicast OFDM Systems**
DEMİR Ö. T., TUNCER T. E.
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- X. **Antenna Selection and Hybrid Beamforming for Simultaneous Wireless Information and Power Transfer in Multi-Group Multicasting Systems**
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- XI. **2-D DOA and mutual coupling coefficient estimation for arbitrary array structures with single and multiple snapshots**
Elbir A. M., TUNCER T. E.
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- XII. **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)
- XIII. **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)
- XIV. **Optimum discrete transmit beamformer design**
DEMİR Ö. T., TUNCER T. E.
DIGITAL SIGNAL PROCESSING, cilt.36, ss.57-68, 2015 (SCI-Expanded)
- XV. **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)
- XVI. **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)
- XVII. **Sectorized approach and measurement reduction for mutual coupling calibration of non-omnidirectional antenna arrays**
Aksoy T., TUNCER T. E.
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- XVIII. **Measurement reduction for mutual coupling calibration in DOA estimation**
Aksoy T., TUNCER T. E.
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- XIX. **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)
- XX. **Channel Matrix Recursion for Blind Effective Channel Order Estimation**
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- XXI. **Iterative HOS-SOS (IHOSS) Algorithm for Direction-of-Arrival Estimation and Sensor Localization**
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- XXIII. **No-search algorithm for direction of arrival estimation**
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- XXIV. **Uniform and nonuniform V-shaped planar arrays for 2-D direction-of-arrival estimation**
Filik T., TUNCER T. E.
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- XXV. **Direction of arrival estimation for nonuniform linear arrays by using array interpolation**
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- XXVI. **Block-based methods for the reconstruction of finite-length signals from nonuniform samples**
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- XXVII. **LSE and MSE optimum partition-based FIR-IIR deconvolution filters with best delay**

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- XXVIII. 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)
- XXIX. Deconvolution and preequalization with best delay LS inverse filters**
 Tuncer T.
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- XXX. Object reconstruction from in-line Fresnel holograms without explicit depth focusing**
 Ozgen M., Tuncer T.
 OPTICAL ENGINEERING, cilt.43, sa.6, ss.1300-1310, 2004 (SCI-Expanded)
- XXXI. Optimum Nyquist filters with controlled time and frequency characteristics**
 Tuncer T.
 ELECTRONICS LETTERS, cilt.38, sa.21, ss.1292-1293, 2002 (SCI-Expanded)
- XXXII. 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)
- XXXIII. 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)
- XXXIV. INTERPOLATED IIR MTH-BAND FILTER DESIGN WITH ALLPASS SUBFILTERS**
 TUNCER T. E., NGUYEN T.
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- XXXV. 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.
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- III. **Path Planning and Localization for Mobile Anchor Based Wireless Sensor Networks**

- Erdemir E., TUNCER T. E.
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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**
Erdemir E. N., TUNCER T. E.
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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**
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.
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- XI. **Relay-Assisted Beamforming for Multicast Systems with Energy Harvesting Capability**
DEMİR Ö. T., TUNCER T. E.
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- XII. **HYBRID BEAMFORMING WITH TWO BIT RF PHASE SHIFTERS IN SINGLE GROUP MULTICASTING**
DEMİR Ö. T., TUNCER T. E.
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- XIII. **DISTRIBUTED BEAMFORMING IN RELAY NETWORKS FOR ENERGY HARVESTING MULTI-GROUP MULTICAST SYSTEMS**
DEMİR Ö. T., TUNCER T. E.
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- XIV. **JOINT OPTIMIZATION OF TRANSMIT AND RELAY BEAMFORMER FOR SINGLE GROUP MULTICAST TRANSMISSION**
DEMİR Ö. T., TUNCER T. E.
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- XV. **SPARSE SUPPORT RECOVERY FOR DOA ESTIMATION IN THE PRESENCE OF MUTUAL COUPLING**
Elbir A. M., TUNCER T. E.
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- 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**
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.
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- XIX. **Discrete Broadcast Beamforming with Antenna and User Selection**
DEMİR Ö. T., TUNCER T. E.
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- XX. **Discrete Relay Beamforming for Broadcasting with Relay Selection**
DEMİR Ö. T., TUNCER T. E.
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- 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**
DEMİR Ö. T., TUNCER T. E.
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- 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.
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- XXV. **Evre uyumlu uzak ve yakın alan kaynaklarının konum kestirimini için seyrek işaret geri oluşturma**
TUNCER T. E., ELBİR A. M.
SIU-2015, Türkiye, 16 - 19 Mayıs 2015
- XXVI. **Hedef sinyal çıkarımı için doğrusal olmayan uyarlamalı bir hüzme 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.
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- XXVIII. **Almaşık enbüütme kullanarak anten seçimi ile çoğa gönderim hüzme şekillendirme**
TUNCER T. E., DEMİR Ö. T.
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- XXIX. **Anten ve kullanıcı seçimi ile ayrık tüme gönderim hüzme tasarımını**
TUNCER T. E., DEMİR Ö. T.
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- XXX. **Röle seçimi ile tüme gönderim için ayrik 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**
DEMİR Ö. T., TUNCER T. E.
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- XXXIII. **OPTIMUM DISCRETE DISTRIBUTED BEAMFORMING FOR SINGLE GROUP MULTICASTING RELAY NETWORKS WITH RELAY SELECTION**
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- XXXIV. **OPTIMUM DISCRETE PHASE-ONLY TRANSMIT BEAMFORMING WITH ANTENNA SELECTION**
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- XXXV. **ALTERNATING MAXIMIZATION ALGORITHM FOR THE BROADCAST BEAMFORMING**
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