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Kişisel Bilgiler

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Biyografi

Cagatay Candan is a professor at the Department of Electrical & Electronics Engineering of Middle East Technical University, Ankara, Turkey. He received his B.S., M.S., and Ph.D. degrees, all in electrical engineering, from Middle East Technical University, Ankara, Turkey (1996), Bilkent University, Ankara, Turkey (1998) and Georgia Institute of Technology, Atlanta, USA (2004), respectively. His research interests include statistical signal processing and its applications in array signal processing, radar signal processing and communications.

Eğitim Bilgileri

Doktora, Georgia Institute of Technology, College Of Engineering, Electrical And Computer Engineering Department, Amerika Birleşik Devletleri 1998 - 2004

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği , Türkiye 1996 - 1998

Lisans, Orta Doğu Teknik Üniversitesi, Odtu Mühendislik Fakültesi Ankara Kampusu, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1992 - 1996

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2015 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2010 - 2015

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2004 - 2010

Yönetilen Tezler

- Candan Ç., Orguner U., Performance prediction of implicitly defined estimators of non-random parameters, Doktora, E.MEHMETCİK(Öğrenci), 2023
- Candan Ç., AN EFFICIENT METHOD FOR FUNDAMENTAL FREQUENCY ESTIMATION OF PERIODIC SIGNALS WITH HARMONICS, Yüksek Lisans, U.ÇELEBİ(Öğrenci), 2020
- Candan Ç., Koç S. S., Low velocity moving target detection with synthetic aperture radar, Yüksek Lisans, G.NARİN(Öğrenci), 2019
- CANDAN Ç., Methods for source localization from time difference of arrival measurements and their performance improvement in ill-conditioned cases, Yüksek Lisans, N.ÇELENK(Öğrenci), 2018
- CANDAN Ç., Joint precoder and decoder design in multiuser downlink MIMO communications for common, private and common+private information transmission, Yüksek Lisans, U.EZGİ(Öğrenci), 2017
- CANDAN Ç., KOÇ S. S., Subspace based radar signal processing methods for array tapering and sidelobe blanking, Yüksek Lisans, D.DİNLER(Öğrenci), 2017
- CANDAN Ç., Optimal multiple hypothesis testing with an application in side lobe blanker design and invariance applications in detection and synchronization, Doktora, O.COŞKUN(Öğrenci), 2017
- CANDAN Ç., Classification of human motion using radar micro-doppler signatures with hidden markov models, Yüksek Lisans, M.ONUR(Öğrenci), 2016
- CANDAN Ç., A comparison of sparse signal recovery and approximate bayesian inference methods for sparse channel estimation, Yüksek Lisans, A.UÇAR(Öğrenci), 2015
- CANDAN Ç., Dimension reduced robust beamforming for towed arrays, Yüksek Lisans, E.TOPÇU(Öğrenci), 2015
- CANDAN Ç., Application of F-test method on model order selection and related problems, Yüksek Lisans, A.YAZAR(Öğrenci), 2015
- CANDAN Ç., KOÇ S. S., The application of micro doppler features in target classification, Yüksek Lisans, Ö.TOPUZ(Öğrenci), 2014
- CANDAN Ç., Radar resource management techniques for multi-function phased array radars, Yüksek Lisans, Ö.ÇAYIR(Öğrenci), 2014
- CANDAN Ç., Design of moving target indication filters with non-uniform pulse repetition intervals, Yüksek Lisans, M.İSPİR(Öğrenci), 2013
- CANDAN Ç., ÇİLOĞLU T., MEMS sensor based underwater AHRS (Attitude and Heading Reference System) aided by compass and pressure sensor, Yüksek Lisans, M.ERÇİN(Öğrenci), 2012
- CANDAN Ç., ÇİLOĞLU T., Speech enhancement utilizing phase continuity between consecutive analysis windows, Yüksek Lisans, E.MEHMETCİK(Öğrenci), 2011
- CANDAN Ç., Bilişsel radyo algılayıcı ağlarda enerji verimli paket uzunluğu eniyilemesi., Yüksek Lisans, M.Can(Öğrenci), 2011
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- CANDAN Ç., Energy-efficient packet size optimization for cognitive radio sensor networks, Yüksek Lisans, M.CAN(Öğrenci), 2011
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- CANDAN Ç., An overview of detection in MIMO radar, Yüksek Lisans, Ş.BİLGİ(Öğrenci), 2010
- CANDAN Ç., ÇİLOĞLU T., CFAR processing with multiple exponential smoothers for nonhomogeneous environments, Yüksek Lisans, B.GÜRAKAN(Öğrenci), 2010
- CANDAN Ç., Frequency invariant beamforming and its application to wideband direction of arrival estimation, Yüksek Lisans, E.BABATAŞ(Öğrenci), 2008
- CANDAN Ç., Joint frequency offset and channel estimation, Yüksek Lisans, M.AVAN(Öğrenci), 2008
- YILMAZ A. Ö., CANDAN Ç., A study of precoding schemes for OFDM systems, Yüksek Lisans, F.SELCEN(Öğrenci), 2008

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Covariance Matrix Estimation of Texture Correlated Compound-Gaussian Vectors for Adaptive Radar Detection**
CANDAN Ç., Pascal F.
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- II. **An Approximate MSE Expression for Maximum Likelihood and Other Implicitly Defined Estimators of Non-Random Parameters**
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- III. **Maximum likelihood autoregressive model parameter estimation with noise corrupted independent snapshots**
ÇAYIR Ö., CANDAN Ç.
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- IV. **Frequency estimation of a single real-valued sinusoid: An invariant function approach**
Candan Ç., Çelebi U.
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- V. **Maximum-likelihood direction of arrival estimation under intermittent jamming**
Bilgi Akdemir Ş., CANDAN Ç.
Digital Signal Processing: A Review Journal, cilt.113, 2021 (SCI-Expanded)
- VI. **Proper Definition and Handling of Dirac Delta Functions [Lecture Notes]**
CANDAN Ç.
IEEE Signal Processing Magazine, cilt.38, sa.3, ss.186-203, 2021 (SCI-Expanded)
- VII. **A Space-Time Coded Mills Cross MIMO Architecture to Improve DOA Estimation and Its Performance Evaluation by Field Experiments**
Ungan C. U., CANDAN Ç., ÇİLOĞLU T.
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- VIII. **Transmit beamformer design with a PAPR constraint to trade-off between beampattern shape and power efficiency**
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- IX. **Chebyshev Center Computation on Probability Simplex With alpha-Divergence Measure**
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IEEE SIGNAL PROCESSING LETTERS, cilt.27, ss.1515-1519, 2020 (SCI-Expanded)
- X. **Making linear prediction perform like maximum likelihood in Gaussian autoregressive model parameter estimation**
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- XI. **Properly Handling Complex Differentiation in Optimization and Approximation Problems**
CANDAN Ç.
IEEE SIGNAL PROCESSING MAGAZINE, cilt.36, sa.2, ss.117-124, 2019 (SCI-Expanded)
- XII. **Performance Improvement of Time-Balance Radar Schedulers Through Decision Policies**
ÇAYIR Ö., CANDAN Ç.
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- XIII. **Design of Maisel sidelobe blankers with a guarantee on the gap to optimality**
COŞKUN O., CANDAN Ç.
IET RADAR SONAR AND NAVIGATION, cilt.10, sa.9, ss.1619-1626, 2016 (SCI-Expanded)
- XIV. **On the design of staggered moving target indicator filters**
ISPIR M., CANDAN Ç.
IET RADAR SONAR AND NAVIGATION, cilt.10, sa.1, ss.205-215, 2016 (SCI-Expanded)
- XV. **Fine resolution frequency estimation from three DFT samples: Case of windowed data**
Candan C.
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- XVI. **Direction finding accuracy of sequential lobing under target amplitude fluctuations**
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- XVII. **A fine-resolution frequency estimator using an arbitrary number of DFT coefficients**
ORGUNER U., CANDAN Ç.
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- XVIII. **A unified framework for derivation and implementation of Savitzky-Golay filters**
CANDAN Ç., Inan H.
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- XIX. **The moment function for the ratio of correlated generalized gamma variables**
CANDAN Ç., Orguner U.
STATISTICS & PROBABILITY LETTERS, cilt.83, sa.10, ss.2353-2356, 2013 (SCI-Expanded)
- XX. **Analysis and Further Improvement of Fine Resolution Frequency Estimation Method From Three DFT Samples**
Candan C.
IEEE SIGNAL PROCESSING LETTERS, cilt.20, sa.9, ss.913-916, 2013 (SCI-Expanded)
- XXI. **An Upper Bound on the Capacity Loss Due to Imprecise Channel State Information for General Memoryless Fading Channels**
Candan C.
IEEE COMMUNICATIONS LETTERS, cilt.17, sa.7, ss.1348-1351, 2013 (SCI-Expanded)
- XXII. **Capacity of Zero-Outage Scheme Under Imprecise Channel State Information**
Candan C.
IEEE COMMUNICATIONS LETTERS, cilt.17, sa.1, ss.127-130, 2013 (SCI-Expanded)
- XXIII. **A Low Complexity Two-Stage Target Detection Scheme for Resource Limited Radar Systems**
Candan C.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, cilt.49, sa.1, ss.594-601, 2013 (SCI-Expanded)
- XXIV. **Conjugate directions based order recursive implementation of post-Doppler adaptive target detectors**
CANDAN Ç., EROL Y. B.
IET RADAR SONAR AND NAVIGATION, cilt.6, sa.7, ss.577-586, 2012 (SCI-Expanded)
- XXV. **CFAR processing with switching exponential smoothers for nonhomogeneous environments**
GURAKAN B., CANDAN Ç., ÇİLOĞLU T.
DIGITAL SIGNAL PROCESSING, cilt.22, sa.3, ss.407-416, 2012 (SCI-Expanded)
- XXVI. **An Accurate and Efficient Two-Stage Channel Estimation Method Utilizing Training Sequences with Closed Form Expressions**

- Candan C.
IEEE TRANSACTIONS ON COMMUNICATIONS, cilt.59, sa.12, ss.3259-3264, 2011 (SCI-Expanded)
- XXVII. **Digital Wideband Integrators With Matching Phase and Arbitrarily Accurate Magnitude Response**
Candan C.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS, cilt.58, sa.9, ss.610-614, 2011 (SCI-Expanded)
- XXVIII. **A Method For Fine Resolution Frequency Estimation From Three DFT Samples**
Candan C.
IEEE SIGNAL PROCESSING LETTERS, cilt.18, sa.6, ss.351-354, 2011 (SCI-Expanded)
- XXIX. **On the Eigenstructure of DFT Matrices**
CANDAN Ç.
IEEE SIGNAL PROCESSING MAGAZINE, cilt.28, sa.2, ss.105-108, 2011 (SCI-Expanded)
- XXX. **Transmit Precoding for Flat-Fading MIMO Multiuser Systems With Maximum Ratio Combining Receivers**
Coskun A., CANDAN Ç.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.60, sa.2, ss.710-716, 2011 (SCI-Expanded)
- XXXI. **A Feedback Quantization Scheme Leveraging Fairness and Throughput for Heterogeneous Multi-User Diversity Systems**
SOYDAN Y., CANDAN Ç.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.59, sa.5, ss.2610-2614, 2010 (SCI-Expanded)
- XXXII. **Efficient Methods of Clutter Suppression for Coexisting Land and Weather Clutter Systems**
CANDAN Ç., YILMAZ A. Ö.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, cilt.45, sa.4, ss.1641-1650, 2009 (SCI-Expanded)
- XXXIII. **Digital computation of linear canonical transforms**
Koc A., Ozaktas H. M., CANDAN Ç., KUTAY M. A.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.56, sa.6, ss.2383-2394, 2008 (SCI-Expanded)
- XXXIV. **On higher order approximations for hermite-gaussian functions and discrete fractional Fourier transforms**
Candan C.
IEEE SIGNAL PROCESSING LETTERS, cilt.14, sa.10, ss.699-702, 2007 (SCI-Expanded)
- XXXV. **An efficient filtering structure for Lagrange interpolation**
Candan C.
IEEE SIGNAL PROCESSING LETTERS, cilt.14, sa.1, ss.17-19, 2007 (SCI-Expanded)
- XXXVI. **Derivation of length extension formulas for complementary sets of sequences using orthogonal filterbanks**
Candan C.
ELECTRONICS LETTERS, cilt.42, sa.24, ss.1427-1429, 2006 (SCI-Expanded)
- XXXVII. **Sampling and series expansion theorems for fractional Fourier and other transforms**
Candan C., OZAKTAS H.
SIGNAL PROCESSING, cilt.83, sa.11, ss.2455-2457, 2003 (SCI-Expanded)
- XXXVIII. **The discrete fractional Fourier transform**
Candan C., KUTAY M. A., OZAKTAS H.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.48, sa.5, ss.1329-1337, 2000 (SCI-Expanded)
- XXXIX. **The discrete harmonic oscillator, Harper's equation, and the discrete fractional Fourier transform**
BARKER L., Candan C., HAKIOGLU T., KUTAY M., OZAKTAS H.
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL, cilt.33, sa.11, ss.2209-2222, 2000 (SCI-Expanded)
- XL. **Space-bandwidth-efficient realizations of linear systems**
KUTAY M., ERDEN M., OZAKTAS H., ARIKAN O., GULERYUZ O., Candan C.
OPTICS LETTERS, cilt.23, sa.14, ss.1069-1071, 1998 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Parameter Estimation for Bursty-Intermittent Observations Patlamalı-Kesikli Gözlemler için Parametre Kestirimi**
Cagatay Candan Ç.
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Türkiye, 5 - 07 Ekim 2020
- II. **A Computationally Efficient Fine Frequency Estimation Method for Harmonic Signals Harmonik İşaretlerin Hassas Frekans Kestirimi İçin Düşük İşlem Yuklu Bir Yöntem**
Çelebi U., Candan Ç.
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Türkiye, 5 - 07 Ekim 2020
- III. **Slow moving target detection for airborne radar systems by dynamic programming on SAR images**
Gurer G., Koc S., Candan Ç., Orguner U.
2019 IEEE Radar Conference, RadarConf 2019, Massachusetts, Amerika Birleşik Devletleri, 22 - 26 Nisan 2019
- IV. **A low-complexity precoder-decoder design in multiuser downlink MIMO communication systems for common and private information transmission Ortak ve Özel Bilginin Gönderildiği Çok Kullanıcılı aşağı Bağlantılı MIMO Haberleşme Sistemlerinde Düşük Karmaşıklıkli Bir Ön Kodlayıcı ve Kod Çözücü Tasarımı**
Deniz U. E., Candan Ç.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Türkiye, 2 - 05 Mayıs 2018, ss.1-4
- V. **Study of angle of arrival estimation performance of MVDR and Capon methods under intermittent interference Kesikli karıştırma durumunda MVDR ve capon yöntemlerinin geliş açisi kestirim performansının incelenmesi**
Akdemir S. B., Candan Ç.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Türkiye, 2 - 05 Mayıs 2018, ss.1-4
- VI. **A Study on the Performance of a Complementary Auxiliary Antenna Pattern for Maisel Sidelobe Blanker**
DINLER D., CANDAN Ç., KOC S.
IEEE Radar Conference, Oklahoma, Amerika Birleşik Devletleri, 23 - 27 Nisan 2018, ss.1178-1182
- VII. **On the Impact of Fast-Time and Slow-Time Preprocessing Operations on Adaptive Target Detectors**
GÜVENSEN G. M., CANDAN Ç.
IEEE Radar Conference, Oklahoma, Amerika Birleşik Devletleri, 23 - 27 Nisan 2018, ss.1183-1188
- VIII. **An investigation of least squares based methods for source localization from time difference of arrival measurements Varies Zaman Farkı Ölçümleri ile Kaynak Konumlandırma En Küçük Kareler Temelli Yöntemlerin İncelenmesi**
Celenk N., Candan Ç.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Türkiye, 15 - 18 Mayıs 2017
- IX. **Classification of Human Motion Using Radar Micro-Doppler Signatures with Hidden Markov Models**
PADAR M. O., ERTAN A. E., CANDAN Ç.
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- X. **On The Optimality of Maisel Sidelobe Blanking System**
Coskun O., CANDAN Ç.
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- XI. **Analysis Window Length Selection For Linear Signal Models**
Yazar A., CANDAN Ç.
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ss.1301-1304

- XII. **Removing Grating Lobes in Sparse Sensor Arrays with a Nonlinear Approach**
Epcacan E., ÇİLOĞLU T., CANDAN Ç., Mehmetcik E.
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- XIII. **On Generalized Eigenvector Space For Target Detection in Reduced Dimensions**
GÜVENSEN G. M., CANDAN Ç., Koc S., ORGUNER U.
IEEE International Radar Conference (RadarCon), Virginia, Amerika Birleşik Devletleri, 10 - 15 Mayıs 2015, ss.1316-1321
- XIV. **The Radar Application of Micro Doppler Features from Human Motions**
ALEMDAROĞLU O. T., CANDAN Ç., Koc S.
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- XV. **On The Optimality of Maisel Sidelobe Blanking Structure**
COŞKUN O., CANDAN Ç.
IEEE Radar Conference - From Sensing to Information, Ohio, Amerika Birleşik Devletleri, 19 - 23 Mayıs 2014, ss.1102-1107
- XVI. **The Extraction of Micro-Doppler Features from Human Motions**
Alemdaroglu O. T., CANDAN Ç., KOÇ S. S.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Türkiye, 23 - 25 Nisan 2014, ss.726-729
- XVII. **Least Square and Min-Max Design of MTI Filters With Nonuniform Interpulse Periods**
ISPIR M., CANDAN Ç.
IEEE Radar Conference (RADAR), Ottawa, Kanada, 29 Nisan - 03 Mayıs 2013
- XVIII. **Min-Max Design of MTI Filters with Non-uniform Pulse Repetition Intervals**
Ispir M., CANDAN Ç.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 Nisan 2013
- XIX. **Beamspace Approach for Detection of the Number of Coherent Sources**
CANDAN Ç., Koc S.
IEEE Radar Conference (RADAR), Georgia, Amerika Birleşik Devletleri, 7 - 11 Mayıs 2012
- XX. **On The Design of Mismatched Filters With An Adjustable Matched Filtering Loss**
Candan C.
2010 IEEE Radar Conference, Washington, Kiribati, 10 - 14 Mayıs 2010, ss.1311-1316
- XXI. **On the Optimality of Detectors Defined Over The Ambiguity Plane**
Candan C.
2009 IEEE Radar Conference, California, Amerika Birleşik Devletleri, 4 - 08 Mayıs 2009, ss.1082-1086
- XXII. **On the Implementation of Optimal Receivers for LFM Signals using Fractional Fourier Transform**
Candan C.
2008 IEEE Radar Conference, Rome, İtalya, 26 - 30 Mayıs 2008, ss.1833-1836
- XXIII. **Efficient Methods of Doppler Processing for Coexisting Land and Weather Clutter**
CANDAN Ç., YILMAZ A. Ö.
2008 IEEE Radar Conference, Rome, İtalya, 26 - 30 Mayıs 2008, ss.568-572
- XXIV. **A transcoding robust data hiding method for image communication applications**
Candan C.
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Patent

Ertan A. E., Padar M. O., Candan Ç., A METHOD FOR MOTION CLASSIFICATION USING A PULSED RADAR SYSTEM, Patent, BÖLÜM H Elektrik, Standart Tescil, 2019

Bilimsel Dergilerdeki Faaliyetler

IEEE Signal Processing Magazine, Editörler Kurulu Üyesi, 2021 - Devam Ediyor

IEEE Communications Letters, Editörler Kurulu Üyesi, 2021 - Devam Ediyor

Bilimsel Hakemlikler

IEEE TRANSACTIONS ON SIGNAL PROCESSING, SCI Kapsamındaki Dergi, Kasım 2022

IEEE SIGNAL PROCESSING LETTERS, SCI-E Kapsamındaki Dergi, Temmuz 2022

DIGITAL SIGNAL PROCESSING: A REVIEW JOURNAL, SCI-E Kapsamındaki Dergi, Haziran 2022

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DIGITAL SIGNAL PROCESSING: A REVIEW JOURNAL, SCI-E Kapsamındaki Dergi, Ocak 2021

IEEE TRANSACTIONS ON SIGNAL PROCESSING, SCI Kapsamındaki Dergi, Aralık 2020

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DIGITAL SIGNAL PROCESSING, SCI-E Kapsamındaki Dergi, Temmuz 2020

IEEE SIGNAL PROCESSING LETTERS, SCI-E Kapsamındaki Dergi, Temmuz 2020

DIGITAL SIGNAL PROCESSING, SCI-E Kapsamındaki Dergi, Mayıs 2020

DIGITAL SIGNAL PROCESSING, SCI-E Kapsamındaki Dergi, Mayıs 2020

IEEE SIGNAL PROCESSING LETTERS, SCI-E Kapsamındaki Dergi, Mart 2020

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SIGNAL PROCESSING, SCI-E Kapsamındaki Dergi, Kasım 2019

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IEEE SIGNAL PROCESSING LETTERS, SCI-E Kapsamındaki Dergi, Mayıs 2019

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, SCI Kapsamındaki Dergi, Nisan 2019

IEEE SIGNAL PROCESSING LETTERS, SCI-E Kapsamındaki Dergi, Mart 2019

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Metrikler

Yayın: 64

Atf (WoS): 1318

Atf (Scopus): 1717

H-İndeks (WoS): 13

H-İndeks (Scopus): 14

Ödüller

Candan Ç., TÜBİTAK TEŞVİK ÖDÜLÜ, Tübitak, Temmuz 2015

Akademi Dışı Deneyim

METU

METU

Georgia Institute of Technology