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Akademik Unvanlar / Görevler

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2016 - Devam Ediyor

Yrd. Doç. Dr., University of Cambridge, Engineering, Information Engineering , 2015 - 2015

Dr. Öğr. Üyesi, Linköpings Universitet (Linköping University), 2011 - 2015

Yrd. Doç. Dr., Linköpings Universitet (Linköping University), Mühendislik, Elektrik, 2011 - 2015

Öğretim Görevlisi Dr., Linköpings Universitet (Linköping University), Mühendislik, Elektrik, 2009 - 2011

Akademik İdari Deneyim

Bölüm Başkan Danışmanı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2016 - Devam Ediyor

Verdiği Dersler

INTRODUCTION TO ELECTRICAL AND ELECTRONICS ENGINEERING , Lisans, 2023 - 2024

FEEDBACK SYSTEMS, Lisans, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

SENSÖRLER ve ENTEGRASYONU, Yüksek Lisans, 2023 - 2024, 2022 - 2023

LINEAR SYSTEMS THEORY I, Yüksek Lisans, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017

TARGET TRACKING , Doktora, 2022 - 2023

CIRCUIT THEORY I, Lisans, 2023 - 2024, 2022 - 2023

Seminar, Yüksek Lisans, 2022 - 2023, 2019 - 2020

Seminar, Doktora, 2022 - 2023, 2019 - 2020

ENGINEERING DESIGN II, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

ENGINEERING DESIGN I, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

PROBABILITY AND RANDOM VARIABLES, Lisans, 2015 - 2016

Yönetilen Tezler

- ÖZKAN E., New methods for decentralised sensor fusion and extended target tracking models, Yüksek Lisans, H.KÖKSAL(Öğrenci), 2022
- ÖZKAN E., Variational bayes methods for random matrix-based extended target tracking, Yüksek Lisans, B.TUNCER(Öğrenci), 2022
- ÖZKAN E., New models and inference techniques for Gaussian process-based extended object tracking, Doktora, M.KUMRU(Öğrenci), 2022
- ÖZKAN E., Negative information fusion for gaussian process based three-dimensional extended target tracking, Yüksek Lisans, C.GÜRKAN(Öğrenci), 2021
- Özkan E., EXTENDED TARGET TRACKING USING REDUCED RANK GAUSSIAN PROCESSES, Yüksek Lisans, M.BUĞRA(Öğrenci), 2021
- Özkan E., Learning drag coefficient of ballistic targets using gaussian process modeling, Yüksek Lisans, F.KUMRU(Öğrenci), 2019
- Özkan E., ORGUNER U., Non-parametric sensor bias estimation using Gaussian process, Yüksek Lisans, M.UFUK(Öğrenci), 2019
- Özkan E., Outlier robust filters and their multiple model extensions, Yüksek Lisans, İ.ŞAHİN(Öğrenci), 2019
- ÖZKAN E., Sıralı Monte Carlo kullanarak elips olmayan genişletilmiş nesnelerin takibi, Yüksek Lisans, S.Fatih(Öğrenci), 2018

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Random matrix extended target tracking for trajectory-aligned and drifting targets**
ŞAHİN K. K., BALCI A. E., ÖZKAN E.
IET Radar, Sonar and Navigation, 2024 (SCI-Expanded)
- II. **Multi-Ellipsoidal Extended Target Tracking With Variational Bayes Inference**
TUNCER B., ORGUNER U., ÖZKAN E.
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- III. **Three-Dimensional Extended Object Tracking and Shape Learning Using Gaussian Processes**
Kumru M., Özkan E.
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- IV. **Random matrix based extended target tracking with orientation: A new model and inference**
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- V. **Variational Measurement Update for Extended Object Tracking Using Gaussian Processes**
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- VI. **Multiellipsoidal extended target tracking with known extent using sequential Monte Carlo framework**
Kara S. F., ÖZKAN E.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.27, sa.2, ss.1546-1558, 2019 (SCI-Expanded)
- VII. **Approximate Bayesian Smoothing with Unknown Process and Measurement Noise Covariances**
Ardeshiri T., Ozkan E., ORGUNER U., Gustafsson F.
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- VIII. **Extended Target Tracking Using Gaussian Processes**
Wahlström N., ÖZKAN E.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.63, sa.16, ss.4165-4178, 2015 (SCI-Expanded)
- IX. **Greedy Reduction Algorithms for Mixtures of Exponential Family**
Ardeshiri T., Granstrom K., Ozkan E., ORGUNER U.
IEEE SIGNAL PROCESSING LETTERS, cilt.22, sa.6, ss.676-680, 2015 (SCI-Expanded)

- X. **Recursive Maximum Likelihood Identification of Jump Markov Nonlinear Systems**
ÖZKAN E., Lindsten F., Fritsche C., Gustafsson F.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.63, sa.3, ss.754-765, 2015 (SCI-Expanded)
- XI. **Tire Radii Estimation Using a Marginalized Particle Filter**
Lundquist C., Karlsson R., ÖZKAN E., Gustafsson F.
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, cilt.15, sa.2, ss.663-672, 2014 (SCI-Expanded)
- XII. **Marginalized adaptive particle filtering for nonlinear models with unknown time-varying noise parameters**
ÖZKAN E., Smidl V., Saha S., Lundquist C., Gustafsson F.
AUTOMATICA, cilt.49, sa.6, ss.1566-1575, 2013 (SCI-Expanded)
- XIII. **Dynamic Speech Spectrum Representation and Tracking Variable Number of Vocal Tract Resonance Frequencies With Time-Varying Dirichlet Process Mixture Models**
ÖZKAN E., ÖZBEK ARSLAN I., Demirekler M.
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING, cilt.17, sa.8, ss.1518-1532, 2009 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Beklenti Maksimizasyonu ile Genişletilmiş Hedef İzleme**
ÖZKAN E.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, cilt.34, ss.145-154, 2019 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Tracking Arbitrarily Shaped Extended Objects Using Gaussian Processes**
Kumru M., ÖZKAN E.
27th International Conference on Information Fusion, FUSION 2024, Venice, İtalya, 7 - 11 Temmuz 2024
- II. **A Rao-Blackwellized Particle Filter for Superelliptical Extended Target Tracking**
YURDAKUL O. C., ÇETİNKAYA M., Çelebi E., ÖZKAN E.
27th International Conference on Information Fusion, FUSION 2024, Venice, İtalya, 7 - 11 Temmuz 2024
- III. **Association and Fusion of Range-Azimuth Tracks**
Balci A. E., ŞAHİN K. K., Kumru F., Pektas F., ÖZKAN E., ORGUNER U.
25th International Conference of Information Fusion (FUSION), Linköping, İsveç, 4 - 07 Temmuz 2022
- IV. **Extended Target Tracking and Classification Using Neural Networks**
TUNCER B., KUMRU M., ÖZKAN E.
22nd International Conference on Information Fusion (FUSION), Ottawa, Kanada, 2 - 05 Temmuz 2019
- V. **3D Extended Object Tracking Using Recursive Gaussian Processes**
Kumru M., Özkan E.
2018 21st International Conference on Information Fusion (FUSION), Cambridge, Kanada, 10 - 13 Temmuz 2018
- VI. **Multi-Ellipsoidal Extended Target Tracking Using Sequential Monte Carlo**
Kara S. F., Özkan E.
2018 21st International Conference on Information Fusion (FUSION), London, Birleşik Krallık, 10 - 13 Temmuz 2018
- VII. **MARGINAL BAYESIAN BHATTACHARYYA BOUNDS FOR DISCRETE-TIME FILTERING**
Fritsche C., ORGUNER U., ÖZKAN E., Gustafsson F.
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Calgary, Kanada, 15 - 20 Nisan 2018, ss.4289-4293

- VIII. **Extended Object Tracking and Shape Classification**
Tuncer B., Kumru M., Alatan A. A., Özkan E.
21st International Conference on Information Fusion (FUSION), Cambridge, Kanada, 10 - 13 Temmuz 2018, ss.267-274
- IX. **Rao-Blackwellised Particle Filter for Star-Convex Extended Target Tracking Models**
ÖZKAN E., Wahlstrom N., Godsill S. J.
19th International Conference on Information Fusion (FUSION), Heidelberg, Almanya, 5 - 08 Temmuz 2016, ss.1193-1199
- X. **Sparse Structure Inference for Group and Network Tracking**
Murphy J., ÖZKAN E., Bunch P., Godsill S. J.
19th International Conference on Information Fusion (FUSION), Heidelberg, Almanya, 5 - 08 Temmuz 2016, ss.1208-1214
- XI. **Joint Antenna and Propagation Model Parameter Estimation Using RSS Measurements**
Kasebzadeh P., Fritsche C., ÖZKAN E., Gunnarsson F., Gustafsson F.
2015 18th International Conference on Information Fusion, Washington, Kiribati, 6 - 09 Temmuz 2015
- XII. **Particle Filtering for Positioning Based on Proximity Reports**
Zhao Y., Yin F., Gunnarsson F., Amirijoo M., ÖZKAN E., Gustafsson F.
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- XIII. **Cooperative Terrain Based Navigation and coverage identification using consensus**
Kasebzadeh P., Fritsche C., ÖZKAN E., Gunnarsson F., Gustafsson F.
2015 18th International Conference on Information Fusion, Washington, Kiribati, 6 - 09 Temmuz 2015
- XIV. **MARGINAL WEISS-WEINSTEIN BOUNDS FOR DISCRETE-TIME FILTERING**
Fritsche C., Ozkan E., ORGUNER U., Gustafsson F.
40th IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Brisbane, Avustralya, 19 - 24 Nisan 2015, ss.3487-3491
- XV. **A fresh look at Bayesian Cramer Rao bounds for discrete time nonlinear filtering**
Zhao Y., Yin F., Gunnarsson F., Amirijoo M., ÖZKAN E., Gustafsson F.
2014 17th International Conference on Information Fusion, Salamanca, Meksika, 7 - 10 Temmuz 2014
- XVI. **On the Cramér-Rao lower bound under model mismatch**
Fritsche C., ORGUNER U., Ozkan E., Gustafsson F.
40th IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP 2015, Brisbane, Avustralya, 19 - 24 Nisan 2014, ss.3986-3990
- XVII. **An adaptive PHD filter for tracking with unknown sensor characteristics**
Zhao Y., Yin F., Gunnarsson F., Amirijoo M., ÖZKAN E., Gustafsson F.
2013 16th International Conference on Information Fusion, İstanbul, Türkiye, 9 - 12 Temmuz 2013
- XVIII. **A Student s t filter for heavy tailed process and measurement noise**
Roth M., ÖZKAN E., Gustafsson F.
2013 IEEE International Conference on Acoustics, Speech and Signal Processing, Vancouver, BC, Canada, 26 - 31 Mayıs 2013
- XIX. **Online EM algorithm for jump Markov systems**
Zhao Y., Yin F., Gunnarsson F., Amirijoo M., ÖZKAN E., Gustafsson F.
2012 15th International Conference on Information Fusion, Singapore, Singapur, 9 - 12 Temmuz 2012
- XX. **Online EM algorithm for joint state and mixture measurement noise estimation**
Zhao Y., Yin F., Gunnarsson F., Amirijoo M., ÖZKAN E., Gustafsson F.
2012 15th International Conference on Information Fusion, Singapore, Singapur, 9 - 12 Temmuz 2012
- XXI. **Olasilik hipotez uygunluğu süzgeci kullanarak akustik sensörlerle kara araçlari takibi**
Özkan E., Guldogan B., ORGUNER U., Gustafsson F.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Türkiye, 18 - 20 Nisan 2012
- XXII. **A Bayesian approach to jointly estimate tire radii and vehicle trajectory**
ÖZKAN E., Lundquist C., Gustafsson F.

2011 14th International IEEE Conference on Intelligent Transportation Systems (ITSC), Washington, DC, USA, 5 - 07 Ekim 2011

XXIII. Ground multiple target tracking with a network of acoustic sensor arrays using PHD and CPHD filters

Özkan E., Guldogan M. B., Orguner U., Gustafsson F.

14th International Conference on Information Fusion, Fusion 2011, Chicago, IL, Amerika Birleşik Devletleri, 5 - 08 Temmuz 2011

XXIV. Non parametric bayesian measurement noise density estimation in non linear filtering

ÖZKAN E., Saikat S., Fredrik G., Smidl V.

2011 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Prague, Czech Republic, 22 - 27 Mayıs 2011

XXV. Parçacık Süzgeci ile Doğrusal olmayan Modellerde Gauss Gürültüsü Parametreleri Kestirimi

ÖZKAN E., GUSTAFSSON F.

2011 - IEEE 19. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Antalya, Turkey, Türkiye, 20 - 22 Nisan 2011

XXVI. Marginalized particle filters for Bayesian estimation of Gaussian noise parameters

Zhao Y., Yin F., Gunnarsson F., Amirijoo M., ÖZKAN E., Gustafsson F.

2010 13th International Conference on Information Fusion, Edinburgh, Saint Helena, 26 - 29 Temmuz 2010

Desteklenen Projeler

TURGUT A. E., ŞAHİN E., ALEMDAR H., ÖZKAN E., GÖZEN A. G., Yükseköğretim Kurumları Destekli Proje, EcoIntelligence Symbiosis of Honey Bees with Drone Swarms to monitor ecosystems with AI, 2024 - Devam Ediyor

Özkan E., Teknopark, Otonom Araçlar için Gauss Süreci Tabanlı Füzyon ve Takip Algoritmaları Geliştirme Projesi, 2022 - 2025

BOSTANCI E., ÖZKAN E., TÜBİTAK Projesi, Yeni Nesil Elektrikli Araç Uygulamalarında Sistem Veriminin Ve Elektrik Makinesi Hata Tespitinin Üç Seviyeli Nötr Nokta Kenetlemeli Evirici Kullanılarak İyileştirilmesi, 2022 - 2024

Özkan E., Teknopark, Uzun Menzilli Radar Sistemleri İçin Veri Füzyonu Tekniklerinin Geliştirilmesi, 2020 - 2022

Özkan E., Teknopark, ÇOKLU HEDEF ÇOKLU SENSÖR FÜZYON ALGORİTMASI GELİŞTİRME PROJESİ, 2019 - 2020

Özkan E., Teknopark, Nitelik Füzyonu Tespit Sistemi Algoritması geliştirme Projesi - 2, 2017 - 2018

Özkan E., Diğer Özel Kurumlarca Desteklenen Proje, SENSOR FUZYON ALGORİTMASI GELİŞTİRME PROJESİ, 2016 - 2017

Metrikler

Yayın: 40

Atıf (WoS): 757

Atıf (Scopus): 1034

H-İndeks (WoS): 12

H-İndeks (Scopus): 15