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Academic Titles / Tasks

Assistant Professor, Linköpings Universitet (Linköping University), Mühendislik, Elektrik, 2018 - Continues

Assistant Professor, Linköpings Universitet (Linköping University), Mühendislik, Elektrik, 2011 - 2018

Assistant Professor, University of Cambridge, Engineering, Information Engineering , 2015 - 2015

Lecturer PhD, Linköpings Universitet (Linköping University), Mühendislik, Elektrik, 2009 - 2011

Professional Experience

Bölüm Başkan Danışmanı, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2016 - Continues

Advising Theses

ÖZKAN E., Tracking non-ellipsoidal extended objects using sequential monte carlo, Post Graduate, S.FATİH(Student), 2018

ÖZKAN E., String Stability Analysis of Cooperative Adaptive Cruise Control (CACC) With Actuator Saturation, Post Graduate, H.BİNGÖL(Student), 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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, vol.27, pp.1546-1558, 2019 (Journal Indexed in SCI)
- **Approximate Bayesian Smoothing with Unknown Process and Measurement Noise Covariances**
Ardeshiri T., Ozkan E., ORGUNER U., Gustafsson F.
IEEE SIGNAL PROCESSING LETTERS, vol.22, pp.2450-2454, 2015 (Journal Indexed in SCI)
- **Extended Target Tracking Using Gaussian Processes**
Wahlström N., ÖZKAN E.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.63, pp.4165-4178, 2015 (Journal Indexed in SCI)
- **Greedy Reduction Algorithms for Mixtures of Exponential Family**
Ardeshiri T., Granstrom K., Ozkan E., ORGUNER U.
IEEE SIGNAL PROCESSING LETTERS, vol.22, pp.676-680, 2015 (Journal Indexed in SCI)
- **Recursive Maximum Likelihood Identification of Jump Markov Nonlinear Systems**
ÖZKAN E., Lindsten F., Fritsche C., Gustafsson F.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.63, pp.754-765, 2015 (Journal Indexed in SCI)
- **Tire Radii Estimation Using a Marginalized Particle Filter**
Lundquist C., Karlsson R., ÖZKAN E., Gustafsson F.
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, vol.15, pp.663-672, 2014 (Journal Indexed in SCI)

- **Marginalized adaptive particle filtering for nonlinear models with unknown time-varying noise parameters**
ÖZKAN E., Smidl V., Saha S., Lundquist C., Gustafsson F.
AUTOMATICA, vol.49, pp.1566-1575, 2013 (Journal Indexed in SCI)
- **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, vol.17, pp.1518-1532, 2009
(Journal Indexed in SCI)

Articles Published in Other Journals

- **Beklenti Maksimizasyonu ile Genişletilmiş Hedef İzleme**
ÖZKAN E.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.34, pp.145-154, 2019 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- **Multi-Ellipsoidal Extended Target Tracking Using Sequential Monte Carlo**
Kara S. F. , Özkan E.
2018 21st International Conference on Information Fusion (FUSION), London, United Kingdom, 10 - 13 July 2018
- **3D Extended Object Tracking Using Recursive Gaussian Processes**
Kumru M., Özkan E.
2018 21st International Conference on Information Fusion (FUSION), Cambridge, Canada, 10 - 13 July 2018
- **Extended Object Tracking and Shape Classification**
Tuncer B., Kumru M., Alatan A. A. , Özkan E.
21st International Conference on Information Fusion., Cambridge, Canada, 10 - 13 July 2018
- **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, Canada, 15 - 20 April 2018, pp.4289-4293
- **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, Germany, 5 - 08 July 2016, pp.1193-1199
- **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, Germany, 5 - 08 July 2016, pp.1208-1214
- **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 July 2015
- **Particle Filtering for Positioning Based on Proximity Reports**
Zhao Y., Yin F., Gunnarsson F., Amirijoo M., ÖZKAN E., Gustafsson F.
2015 18th International Conference on Information Fusion, Washington, Kiribati, 6 - 09 July 2015
- **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 July 2015
- **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, Australia, 19 - 24 April 2015, pp.3487-3491

- **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, Mexico, 7 - 10 July 2014
- **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, Australia, 19 - 24 April 2014, pp.3986-3990
- **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, Turkey, 9 - 12 July 2013
- **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 May 2013
- **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, Singapore, 9 - 12 July 2012
- **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, Singapore, 9 - 12 July 2012
- **Olasilik hipotez yoğunluğu süzgeci kullanarak akustik sensörlerle kara araçları takibi**
Özkan E., GÜLDOĞAN B., ORGUNER U., Gustafsson F.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012
- **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 October 2011
- **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, United States Of America, 5 - 08 July 2011
- **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 May 2011
- **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, Turkey, 20 - 22 April 2011
- **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 July 2010

Supported Projects

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

Özkan E., Project Supported by Other Private Institutions, SENSOR FUZYON ALGORITMASI GELISTIRME PROJESİ, 2016 - 2017

Citations

Total Citations (WOS):251

h-index (WOS):7