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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: A-5234-2013

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Yoksis Araştırmacı ID: 115041

Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Türkiye 2002 - 2006

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Türkiye 1999 - 2002

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1994 - 1999

Yaptığı Tezler

Doktora, Improved state estimation for jump Markov linear systems, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), 2006

Yüksek Lisans, Evaluation of two new methodologies for maneuvering target tracking, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), 2002

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2019 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2014 - 2019

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2012 - 2014

Yrd. Doç. Dr., Linköpings Universitet (Linköping University), Engineering, Department Of Electrical Engineering, 2009 - 2012

Öğretim Görevlisi Dr., Linköpings Universitet (Linköping University), Engineering, Department Of Electrical Engineering,

2007 - 2009

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü,
1999 - 2006

Yönetilen Tezler

Candan Ç., Orguner U., Performance prediction of implicitly defined estimators of non-random parameters, Doktora, E.MEHMETCİK(Öğrenci), 2023

Orguner U., Expectation propagation for state estimation with discrete-valued hidden random variables, Doktora, E.SARITAŞ(Öğrenci), 2023

Orguner U., Approximate methods for state estimation with nonlinear measurements and unknown noise covariances, Doktora, E.LAZ(Öğrenci), 2023

ORGUNER U., Variational smoothing for extended target tracking with random matrices, Yüksek Lisans, S.ERDEM(Öğrenci), 2022

ORGUNER U., A forward prediction based out of sequence measurement processing method for kalman and IMM filtering, Yüksek Lisans, O.EREL(Öğrenci), 2022

ORGUNER U., Decorrelation approaches for distributed fusion with target tracking algorithms, Doktora, D.ACAR(Öğrenci), 2021

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Özkan E., ORGUNER U., Non-parametric sensor bias estimation using Gaussian process, Yüksek Lisans, M.UFUK(Öğrenci), 2019

ORGUNER U., Interacting multiple model probabilistic data association filter using random matrices for extended target tracking, Yüksek Lisans, E.ÖZPAK(Öğrenci), 2018

ORGUNER U., Satellite orbit estimation using kalman filters, Yüksek Lisans, M.İPEK(Öğrenci), 2017

ORGUNER U., Parametric and posterior Cramér-Rao lower bounds for extended target tracking in a random matrix framework, Yüksek Lisans, E.SARITAŞ(Öğrenci), 2015

ORGUNER U., Target tracking and sensor placement for doppler-only measurements, Yüksek Lisans, S.AYAZGÖK(Öğrenci), 2015

YILMAZ A. Ö., ORGUNER U., INDOOR LOCALIZATION AND TRACKING BASED ON RSSI AND ACCELEROMETER MEASUREMENTS, Yüksek Lisans, M.DOĞAN(Öğrenci), 2015

Orguner U., Demirekler M., Fusion of target density and intensity functions based on Chernoff fusion using sigma points, Doktora, M.GÜNAY(Öğrenci), 2015

YILMAZ A. Ö., ORGUNER U., On localization and tracking using received signal strength measurements, Yüksek Lisans, A.YILMAZ(Öğrenci), 2015

ORGUNER U., Dynamic quantization for track fusion under communication constraints, Yüksek Lisans, G.GÖK(Öğrenci), 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Expectation Propagation with Context Adjustment for Smoothing of Jump Markov Linear Systems**
Sartas E., ORGUNER U.
IEEE Transactions on Aerospace and Electronic Systems, cilt.59, sa.5, ss.7098-7114, 2023 (SCI-Expanded)
- II. **Gaussian Mixture Filtering with Nonlinear Measurements Minimizing Forward Kullback-Leibler Divergence**
Laz E., ORGUNER U.
Signal Processing, cilt.208, 2023 (SCI-Expanded)
- III. **An Approximate MSE Expression for Maximum Likelihood and Other Implicitly Defined Estimators of**

Non-Random Parameters

Mehmetcik E., ORGUNER U., CANDAN Ç.
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- IV. **Multi-Ellipsoidal Extended Target Tracking With Variational Bayes Inference**
TUNCER B., ORGUNER U., ÖZKAN E.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.70, ss.3921-3934, 2022 (SCI-Expanded)
- V. **Decorrelation of Previously Communicated Information for an Interacting Multiple Model Filter**
Acar D., ORGUNER U.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, cilt.57, sa.1, ss.404-422, 2021 (SCI-Expanded)
- VI. **Performance limits for the amplitude estimation of power system harmonics & interharmonics**
Altıntasi C., ORGUNER U., Salor O.
IET GENERATION TRANSMISSION & DISTRIBUTION, cilt.14, sa.19, ss.4108-4121, 2020 (SCI-Expanded)
- VII. **Chernoff Fusion of Gaussian Mixtures Based on Sigma-Point Approximation**
Gunay M., ORGUNER U., DEMİREKLER M.
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- VIII. **Approximate Bayesian Smoothing with Unknown Process and Measurement Noise Covariances**
Ardeşhiri T., Ozkan E., ORGUNER U., Gustafsson F.
IEEE SIGNAL PROCESSING LETTERS, cilt.22, sa.12, ss.2450-2454, 2015 (SCI-Expanded)
- IX. **Greedy Reduction Algorithms for Mixtures of Exponential Family**
Ardeşhiri T., Granstrom K., Ozkan E., ORGUNER U.
IEEE SIGNAL PROCESSING LETTERS, cilt.22, sa.6, ss.676-680, 2015 (SCI-Expanded)
- X. **A fine-resolution frequency estimator using an arbitrary number of DFT coefficients**
ORGUNER U., CANDAN Ç.
SIGNAL PROCESSING, cilt.105, ss.17-21, 2014 (SCI-Expanded)
- XI. **Random Set Methods Estimation of Multiple Extended Objects**
Granstrom K., Lundquist C., Gustafsson F., Orguner U.
IEEE ROBOTICS & AUTOMATION MAGAZINE, cilt.21, sa.2, ss.73-82, 2014 (SCI-Expanded)
- XII. **Multi-target tracking with PHD filter using Doppler-only measurements**
Guldogan M. B., Lindgren D., Gustafsson F., Habberstad H., ORGUNER U.
DIGITAL SIGNAL PROCESSING, cilt.27, ss.1-11, 2014 (SCI-Expanded)
- XIII. **New Prediction for Extended Targets With Random Matrices**
Granstrom K., ORGUNER U.
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- XIV. **The Marginal Enumeration Bayesian Cramer-Rao Bound for Jump Markov Systems**
FRITSCHÉ C., ORGUNER U., Svensson L., Gustafsson F.
IEEE SIGNAL PROCESSING LETTERS, cilt.21, sa.4, ss.464-468, 2014 (SCI-Expanded)
- XV. **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)
- XVI. **An Extended Target CPHD Filter and a Gamma Gaussian Inverse Wishart Implementation**
Lundquist C., Granstrom K., ORGUNER U.
IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING, cilt.7, sa.3, ss.472-483, 2013 (SCI-Expanded)
- XVII. **On Spawning and Combination of Extended/Group Targets Modeled With Random Matrices**
Granstrom K., ORGUNER U.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.61, sa.3, 2013 (SCI-Expanded)
- XVIII. **A PHD Filter for Tracking Multiple Extended Targets Using Random Matrices**
Granstrom K., Orguner U.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.60, sa.11, ss.5657-5671, 2012 (SCI-Expanded)
- XIX. **Extended Target Tracking using a Gaussian-Mixture PHD Filter**

- Granstrom K, Lundquist C, Orguner O.
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- XX. **Road Target Search and Tracking with Gimballed Vision Sensor on an Unmanned Aerial Vehicle**
Skoglar P, Orguner U, Tornqvist D., Gustafsson F.
REMOTE SENSING, cilt.4, sa.7, ss.2076-2111, 2012 (SCI-Expanded)
- XXI. **A Variational Measurement Update for Extended Target Tracking With Random Matrices**
Orguner U.
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- XXII. **Pedestrian tracking with an infrared sensor using road network information**
Skoglar P, Orguner U, Tornqvist D., Gustafsson F.
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- XXIII. **Target Tracking With Particle Filters Under Signal Propagation Delays**
Orguner U, Gustafsson F.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.59, sa.6, ss.2485-2495, 2011 (SCI-Expanded)
- XXIV. **A Simple Real-Time Fault Signature Monitoring Tool for Motor-Drive-Embedded Fault Diagnosis Systems**
Akin B, Choi S, Orguner U, Toliyat H. A.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.58, sa.5, ss.1990-2001, 2011 (SCI-Expanded)
- XXV. **Robust Tracking in Cellular Networks Using HMM Filters and Cell-ID Measurements**
Bshara M, Orguner U, Gustafsson F., Van Biesen L.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.60, sa.3, ss.1016-1024, 2011 (SCI-Expanded)
- XXVI. **Extended Target Tracking Using Polynomials With Applications to Road-Map Estimation**
Lundquist C, Orguner U, Gustafsson F.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.59, sa.1, ss.15-26, 2011 (SCI-Expanded)
- XXVII. **Fingerprinting Localization in Wireless Networks Based on Received-Signal-Strength Measurements: A Case Study on WiMAX Networks**
Bshara M, Orguner U, Gustafsson F., Van Biesen L.
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, cilt.59, sa.1, ss.283-294, 2010 (SCI-Expanded)
- XXVIII. **Maximum likelihood estimation of transition probabilities of jump Markov linear systems**
Orguner U, Demirekler M.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.56, sa.10, ss.5093-5108, 2008 (SCI-Expanded)
- XXIX. **Risk-sensitive particle filters for mitigating sample impoverishment**
Orguner U, Gustafsson F.
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- XXX. **Phase-sensitive detection of motor fault signatures in the presence of noise**
Akin B, Orguner U, Toliyat H. A., Rayner M.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, cilt.55, sa.6, ss.2539-2550, 2008 (SCI-Expanded)
- XXXI. **Low order PWM inverter harmonics contributions to the inverter-fed induction machine fault diagnosis**
Akin B, Orguner U, Toliyat H. A., Rayner M.
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- XXXII. **Risk-sensitive filtering for jump Markov linear systems**
Orguner U, Demirekler M.
AUTOMATICA, cilt.44, sa.1, ss.109-118, 2008 (SCI-Expanded)
- XXXIII. **Analysis of single Gaussian approximation of Gaussian mixtures in Bayesian filtering applied to mixed multiple-model estimation**
Orguner U, Demirekler M.
INTERNATIONAL JOURNAL OF CONTROL, cilt.80, sa.6, ss.952-967, 2007 (SCI-Expanded)
- XXXIV. **An online sequential algorithm for the estimation of transition probabilities for jump Markov linear systems**
Orguner U, Demirekler M.

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XXXV. **Simple derivative-free nonlinear state observer for sensorless AC drives**

Akin B., Orguner U., Ersak A., Ehsani M.

IEEE-ASME TRANSACTIONS ON MECHATRONICS, cilt.11, sa.5, ss.634-643, 2006 (SCI-Expanded)

Kitap & Kitap Bölümleri

I. **Navigation and Tracking of Road-Bound Vehicles Using Map Support**

Orguner U.

Handbook of Intelligent Vehicles, Azim Eskandarian, Editör, Springer-Verlag , London, ss.397-434, 2012

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Adaptive mixture approximation for target tracking in clutter**

D'Ortenzio A., Manes C., ORGUNER U.

22nd World Congress of the International Federation of Automatic Control (IFAC), Yokohama, Japonya, 9 - 14 Temmuz 2023, ss.8889-8895

II. **Adaptive Mixture Model Reduction based on the Composite Transportation Dissimilarity**

D'Ortenzio A., Manes C., Iuliis V. D., ORGUNER U.

26th International Conference on Information Fusion, FUSION 2023, South Carolina, Amerika Birleşik Devletleri, 27 - 30 Haziran 2023

III. **Bayesian Filtering and Smoothing with Unknown Measurement Noise Covariance**

Laz E., ORGUNER U.

2023 IEEE International Radar Conference, RADAR 2023, Sydney, Avustralya, 6 - 10 Kasım 2023

IV. **A Model Selection criterion for the Mixture Reduction problem based on the Kullback-Leibler Divergence**

D'Ortenzio A., Manes C., ORGUNER U.

25th International Conference of Information Fusion (FUSION), Linköping, İsveç, 4 - 07 Temmuz 2022

V. **Fixed-point iterative computation of Gaussian barycenters for some dissimilarity measures**

D'ortenzio A., Manes C., Orguner U.

2022 International Conference on Computational Science and Computational Intelligence, CSCI 2022, Nevada, Amerika Birleşik Devletleri, 14 - 16 Aralık 2022, ss.1422-1428

VI. **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

VII. **An Optimal Transport Perspective on Gamma Gaussian Inverse-Wishart Mixture Reduction**

D'Ortenzio A., Manes C., ORGUNER U.

25th International Conference of Information Fusion (FUSION), Linköping, İsveç, 4 - 07 Temmuz 2022

VIII. **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

IX. **A TIGHTER BAYESIAN CRAMER-RAO BOUND**

Bacharach L., Fritsche C., Orguner U., Chaumette E.

44th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Brighton, Birleşik Krallık, 12 - 17 Mayıs 2019, ss.5277-5281

X. **Some Inequalities Between Pairs of Marginal and Joint Bayesian Lower Bounds**

Bacharach L., Chaumette E., Fritsche C., ORGUNER U.

22nd International Conference on Information Fusion (FUSION), Ottawa, Kanada, 2 - 05 Temmuz 2019

XI. **Nonlinear Decentralized Data Fusion with Generalized Inverse Covariance Intersection**

Noack B., ORGUNER U., Hanebeck U. D.

22nd International Conference on Information Fusion (FUSION), Ottawa, Kanada, 2 - 05 Temmuz 2019

XII. Bobrovsky-Zakai Bound for Filtering, Prediction and Smoothing of Nonlinear Dynamic Systems

Fritsche C., ORGUNER U., Gustafsson F.

21st International Conference on Information Fusion, FUSION 2018, Cambridge, Birleşik Krallık, 10 - 13 Temmuz 2018, ss.171-178

XIII. Information Decorrelation for an Interacting Multiple Model Filter

Acar D., ORGUNER U.

21st International Conference on Information Fusion, FUSION 2018, Cambridge, Birleşik Krallık, 10 - 13 Temmuz 2018, ss.1527-1534

XIV. A Random Matrix Measurement Update Using Taylor-Series Approximations

SARITAŞ E., ORGUNER U.

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XV. MARGINAL BAYESIAN BHATTACHARYYA BOUNDS FOR DISCRETE-TIME FILTERING

Fritsche C., ORGUNER U., ÖZKAN E., Gustafsson F.

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XVI. Approximate Analytical Solutions for the Weight Optimization Problems of CI and ICI

ORGUNER U.

Symposium on Sensor Data Fusion - Trends, Solutions, Applications (SDF), Bonn, Almanya, 10 - 12 Ekim 2017

XVII. Posterior Cramér-Rao Lower Bounds for Extended Target Tracking with Random Matrices

SARITAŞ E., ORGUNER U.

2016 19TH INTERNATIONAL CONFERENCE ON INFORMATION FUSION (FUSION), Heidelberg, Almanya, 5 - 08 Temmuz 2016, ss.1485-1492

XVIII. Optimal sensor placement for Doppler-only target tracking: 1D target motion case

Ayazgok S., ORGUNER U.

19th International Conference on Information Fusion, FUSION 2016, Heidelberg, Almanya, 5 - 08 Temmuz 2016, ss.2283-2288

XIX. Posterior Cramér-Rao lower bounds for extended target tracking with random matrices

SARITAŞ E., ORGUNER U.

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XX. Recent results on Bayesian Cramér-Rao bounds for jump Markov systems

Fritsche C., ORGUNER U., Svensson L., Gustafsson F.

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XXI. Optimal Sensor Placement for Doppler-Only Target Tracking: 1D Target Motion Case

Ayazgok S., ORGUNER U.

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XXII. On the Solution of Data Association Problem Using Rollout Algorithms

Ozgen S., DEMİREKLER M., ORGUNER U.

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XXIII. Posterior Cramér-Rao Lower Bounds for Extended Target Tracking with Random Matrices

SARITAŞ E., ORGUNER U.

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XXIV. ON PARAMETRIC LOWER BOUNDS FOR DISCRETE-TIME FILTERING

Fritsche C., ORGUNER U., Gustafsson F.

IEEE International Conference on Acoustics, Speech, and Signal Processing, Shanghai, Çin, 20 - 25 Mart 2016, ss.4338-4342

- XXV. **Chernoff Fusion of Gaussian Mixtures for Distributed Maneuvering Target Tracking**
GUNAY M., ORGUNER U., DEMİREKLER M.
18th International Conference on Information Fusion (Fusion), Washington, Kiribati, 6 - 09 Temmuz 2015, ss.870-877
- XXVI. **Dynamic Quantization for Track Fusion Under Communication Constraints**
Gok G., ORGUNER U.
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- XXVII. **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
- XXVIII. **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
- XXIX. **Approximate Chernoff Fusion of Gaussian Mixtures Using Sigma-Points**
Gunay M., ORGUNER U., DEMİREKLER M.
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- XXX. **DELAY ESTIMATION BASED ON KINEMATIC TRACK INFORMATION WITHOUT TIME STAMPS**
Ozgen S., SARITAŞ E., ORGUNER U., Acar D.
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- XXXI. **3D TRACKING OF PEOPLE WITH RAO-BLACKWELLIZED PARTICLE FILTERS**
Topcu O., ORGUNER U., Alatan A., ERCAN A. Ö.
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- XXXII. **On the Cramér-Rao lower bound under model mismatch**
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- XXXIII. **Centralized Target Tracking with Propagation Delayed Measurements**
MEHMETCIK E., ORGUNER U.
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- XXXIV. **MULTI-TARGET TRACKING USING PASSIVE DOPPLER MEASUREMENTS**
Guldogan M. B., ORGUNER U., Gustafsson F.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 Nisan 2013
- XXXV. **Enhancing GPS positioning accuracy from the generation of ground-truth reference points for on-road urban navigation**
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- XXXVI. **On the reduction of Gaussian inverse Wishart mixtures**
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- XXXVII. **Estimation and maintenance of measurement rates for multiple extended target tracking**
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- XXXVIII. **On mixture reduction for multiple target tracking**
Ardeşiri T., ORGUNER U., Lundquist C., Schön T. B.
15th International Conference on Information Fusion, FUSION 2012, Singapore, Singapur, 7 - 12 Eylül 2012, ss.692-699
- XXXIX. **On-road trajectory generation from GPS data: A particle filtering/smoothing application**
Roth M., Gustafsson F., ORGUNER U.
15th International Conference on Information Fusion, FUSION 2012, Singapore, Singapur, 7 - 12 Eylül 2012, ss.779-786
- XL. **Multiple target tracking with Gaussian mixture PHD filter using passive acoustic Doppler-only measurements**
Guldogan M. B., Lindgren D., Gustafsson F., Habberstad H., Orguner U.
15th International Conference on Information Fusion, FUSION 2012, Singapore, Singapur, 7 - 12 Eylül 2012, ss.2600-2607
- XLI. **Gaussian mixture PHD filter for multi-target tracking using passive doppler-only measurements**
Guldogan M. B., Orguner U., Gustafsson F.
9th IET Data Fusion and Target Tracking Conference: Algorithms and Applications, DF and TT 2012, London, Birleşik Krallık, 16 - 17 Mayıs 2012, cilt.2012, ss.2
- XLII. **Olasilik hipotez yoğunluğu süzgeci kullanarak akustik sensörlerle kara araçları takibi**
Özkan E., Guldoğan B., ORGUNER U., Gustafsson F.
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- XLIII. **Non-Linear Filtering based on Observations from Student's t Processes**
Saha S., Orguner U., Gustafsson F.
IEEE Aerospace Conference, Montana, Amerika Birleşik Devletleri, 3 - 10 Mart 2012
- XLIV. **ML Estimation of Process Noise Variance in Dynamic Systems**
Axelsson P., Orguner U., Gustafsson F., Norrlöf M.
Proceedings of 18th IFAC World Congress, Milan, İtalya, 28 Ağustos - 02 Eylül 2011, cilt.44, ss.5609-5614
- XLV. **The benefits of down-sampling in the particle filter**
Gustafsson F., Saha S., Orguner U.
14th International Conference on Information Fusion, Fusion 2011, Chicago, IL, Amerika Birleşik Devletleri, 5 - 08 Temmuz 2011
- XLVI. **Extended target tracking with a cardinalized probability hypothesis density filter**
Orguner U., Lundquist C., Granström K.
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- XLVII. **Ground multiple target tracking with a network of acoustic sensor arrays using PHD and CPHD filters**
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