

Prof. UMUT ORGUNER

Personal Information

Office Phone: [+90 312 210 4425](tel:+903122104425)

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

Email: umut@metu.edu.tr

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

Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2002 - 2006

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), Turkey 1999 - 2002

Under Graduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1994 - 1999

Dissertations

Doctorate, Improved state estimation for jump Markov linear systems, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik-Elektronik Mühendisliği (Dr), 2006

Post Graduate, Evaluation of two new methodologies for maneuvering target tracking, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik Ve Elektronik Mühendisliği (YI) (Tezli), 2002

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2019 - Continues

Associate Professor, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2019

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2012 - 2016

Assistant Professor, Linköpings Universitet (Linköping University), Engineering, Department Of Electrical Engineering, 2009 - 2012

Lecturer PhD, Linköpings Universitet (Linköping University), Engineering, Department Of Electrical Engineering, 2007 - 2009

Research Assistant, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1999 - 2006

Advising Theses

- ORGUNER U., Interacting multiple model probabilistic data association filter using random matrices for extended target tracking, Post Graduate, E.ÖZPAK(Student), 2018
- ORGUNER U., Satellite orbit estimation using kalman filters, Post Graduate, M.İPEK(Student), 2017
- ORGUNER U., Target tracking and sensor placement for doppler-only measurements, Post Graduate, S.AYAZGÖK(Student), 2015
- ORGUNER U., Parametric and posterior Cramér-Rao lower bounds for extended target tracking in a random matrix framework, Post Graduate, E.SARITAŞ(Student), 2015
- Orguner U., Demirekler M., Fusion of target density and intensity functions based on Chernoff fusion using sigma points, Doctorate, M.GÜNAY(Student), 2015
- YILMAZ A. Ö. , ORGUNER U., On localization and tracking using received signal strength measurements, Post Graduate, A.YILMAZ(Student), 2015
- ORGUNER U., Dynamic quantization for track fusion under communication constraints, Post Graduate, G.GÖK(Student), 2015
- YILMAZ A. Ö. , ORGUNER U., INDOOR LOCALIZATION AND TRACKING BASED ON RSSI AND ACCELEROMETER MEASUREMENTS, Post Graduate, M.DOĞAN(Student), 2015

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

- **Performance limits for the amplitude estimation of power system harmonics & interharmonics**
Altıntasi C., ORGUNER U., Salor O.
IET GENERATION TRANSMISSION & DISTRIBUTION, vol.14, pp.4108-4121, 2020 (Journal Indexed in SCI)
- **Chernoff Fusion of Gaussian Mixtures Based on Sigma-Point Approximation**
Gunay M., ORGUNER U., DEMİREKLER M.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.52, pp.2731-2746, 2016 (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)
- **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)
- **A fine-resolution frequency estimator using an arbitrary number of DFT coefficients**
ORGUNER U., CANDAN Ç.
SIGNAL PROCESSING, vol.105, pp.17-21, 2014 (Journal Indexed in SCI)
- **Random Set Methods Estimation of Multiple Extended Objects**
Granstrom K., Lundquist C., Gustafsson F., Orguner U.
IEEE ROBOTICS & AUTOMATION MAGAZINE, vol.21, pp.73-82, 2014 (Journal Indexed in SCI)
- **The Marginal Enumeration Bayesian Cramer-Rao Bound for Jump Markov Systems**
FRITSCHÉ C., ORGUNER U., Svensson L., Gustafsson F.
IEEE SIGNAL PROCESSING LETTERS, vol.21, pp.464-468, 2014 (Journal Indexed in SCI)
- **Multi-target tracking with PHD filter using Doppler-only measurements**
Guldogan M. B. , Lindgren D., Gustafsson F., Habberstad H., ORGUNER U.
DIGITAL SIGNAL PROCESSING, vol.27, pp.1-11, 2014 (Journal Indexed in SCI)
- **New Prediction for Extended Targets With Random Matrices**
Granstrom K., ORGUNER U.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.50, pp.1577-1589, 2014 (Journal Indexed in SCI)
- **The moment function for the ratio of correlated generalized gamma variables**

CANDAN Ç., Orguner U.

STATISTICS & PROBABILITY LETTERS, vol.83, pp.2353-2356, 2013 (Journal Indexed in SCI)

● **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, vol.7, pp.472-483, 2013 (Journal Indexed in SCI)

● **On Spawning and Combination of Extended/Group Targets Modeled With Random Matrices**

Granstrom K., ORGUNER U.

● IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.61, 2013 (Journal Indexed in SCI)

● **A PHD Filter for Tracking Multiple Extended Targets Using Random Matrices**

Granstrom K., Orguner U.

● IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.60, pp.5657-5671, 2012 (Journal Indexed in SCI)

● **Extended Target Tracking using a Gaussian-Mixture PHD Filter**

Granstrom K., Lundquist C., Orguner O.

● IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.48, pp.3268-3286, 2012 (Journal Indexed in SCI)

● **Road Target Search and Tracking with Gimballed Vision Sensor on an Unmanned Aerial Vehicle**

Skoglar P., Orguner U., Tornqvist D., Gustafsson F.

● REMOTE SENSING, vol.4, pp.2076-2111, 2012 (Journal Indexed in SCI)

● **A Variational Measurement Update for Extended Target Tracking With Random Matrices**

Orguner U.

● IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.60, pp.3827-3834, 2012 (Journal Indexed in SCI)

● **Pedestrian tracking with an infrared sensor using road network information**

Skoglar P., Orguner U., Tornqvist D., Gustafsson F.

● EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING, 2012 (Journal Indexed in SCI)

● **Target Tracking With Particle Filters Under Signal Propagation Delays**

Orguner U., Gustafsson F.

● IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.59, pp.2485-2495, 2011 (Journal Indexed in SCI)

● **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, vol.58, pp.1990-2001, 2011 (Journal Indexed in SCI)

● **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, vol.60, pp.1016-1024, 2011 (Journal Indexed in SCI)

● **Extended Target Tracking Using Polynomials With Applications to Road-Map Estimation**

Lundquist C., Orguner U., Gustafsson F.

● IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.59, pp.15-26, 2011 (Journal Indexed in SCI)

● **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, vol.59, pp.283-294, 2010 (Journal Indexed in SCI)

● **Risk-sensitive particle filters for mitigating sample impoverishment**

Orguner U., Gustafsson F.

● IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.56, pp.5001-5012, 2008 (Journal Indexed in SCI)

● **Maximum likelihood estimation of transition probabilities of jump Markov linear systems**

Orguner U., Demirekler M.

● IEEE TRANSACTIONS ON SIGNAL PROCESSING, vol.56, pp.5093-5108, 2008 (Journal Indexed in SCI)

● **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, vol.55, pp.2539-2550, 2008 (Journal Indexed in SCI)

● **Low order PWM inverter harmonics contributions to the inverter-fed induction machine fault**

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IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.55, pp.610-619, 2008 (Journal Indexed in SCI)

● Risk-sensitive filtering for jump Markov linear systems

Orguner U., Demirekler M.

AUTOMATICA, vol.44, pp.109-118, 2008 (Journal Indexed in SCI)

● 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, vol.80, pp.952-967, 2007 (Journal Indexed in SCI)

● An online sequential algorithm for the estimation of transition probabilities for jump Markov linear systems

Orguner U., Demirekler M.

AUTOMATICA, vol.42, pp.1735-1744, 2006 (Journal Indexed in SCI)

● Simple derivative-free nonlinear state observer for sensorless AC drives

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

IEEE-ASME TRANSACTIONS ON MECHATRONICS, vol.11, pp.634-643, 2006 (Journal Indexed in SCI)

Books & Book Chapters

● Navigation and Tracking of Road-Bound Vehicles Using Map Support

Orguner U.

in: Handbook of Intelligent Vehicles, Azim Eskandarian, Editor, Springer-Verlag, London, pp.397-434, 2012

Refereed Congress / Symposium Publications in Proceedings

● 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, United States Of America, 22 - 26 April 2019

● 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, England, 12 - 17 May 2019, pp.5277-5281

● Nonlinear Decentralized Data Fusion with Generalized Inverse Covariance Intersection

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

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

● 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, Canada, 2 - 05 July 2019

● 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, United Kingdom, 10 - 13 July 2018, pp.171-178

● Information Decorrelation for an Interacting Multiple Model Filter

Acar D., ORGUNER U.

21st International Conference on Information Fusion, FUSION 2018, Cambridge, United Kingdom, 10 - 13 July 2018, pp.1527-1534

● A Random Matrix Measurement Update Using Taylor-Series Approximations

SARITAŞ E., ORGUNER U.

21st International Conference on Information Fusion, FUSION 2018, Cambridge, United Kingdom, 10 - 13 July 2018, pp.1756-1763

● **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

● **Approximate Analytical Solutions for the Weight Optimization Problems of CI and ICI**

ORGUNER U.

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

● **Recent results on Bayesian Cramér-Rao bounds for jump Markov systems**

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

19th International Conference on Information Fusion, FUSION 2016, Heidelberg, Germany, 5 - 08 July 2016, pp.512-520

● **Optimal Sensor Placement for Doppler-Only Target Tracking: ID Target Motion Case**

Ayazgok S., ORGUNER U.

19th International Conference on Information Fusion (FUSION), Heidelberg, Germany, 5 - 08 July 2016, pp.2283-2288

● **On the Solution of Data Association Problem Using Rollout Algorithms**

Ozgen S., DEMİREKLER M., ORGUNER U.

19th International Conference on Information Fusion (FUSION), Heidelberg, Germany, 5 - 08 July 2016, pp.695-702

● **Posterior Cram'er-Rao Lower Bounds for Extended Target Tracking with Random Matrices**

SARITAŞ E., ORGUNER U.

19th International Conference on Information Fusion (FUSION), Heidelberg, Germany, 5 - 08 July 2016, pp.1485-1492

● **ON PARAMETRIC LOWER BOUNDS FOR DISCRETE-TIME FILTERING**

Fritsche C., ORGUNER U., Gustafsson F.

IEEE International Conference on Acoustics, Speech, and Signal Processing, Shanghai, China, 20 - 25 March 2016, pp.4338-4342

● **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 July 2015, pp.870-877

● **Dynamic Quantization for Track Fusion Under Communication Constraints**

Gok G., ORGUNER U.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.962-965

● **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, United States Of America, 10 - 15 May 2015, pp.1316-1321

● **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

● **Approximate Chernoff Fusion of Gaussian Mixtures Using Sigma-Points**

Gunay M., ORGUNER U., DEMİREKLER M.

17th International Conference on Information Fusion (FUSION), Salamanca, Mexico, 7 - 10 July 2014

● **3D TRACKING OF PEOPLE WITH RAO-BLACKWELLIZED PARTICLE FILTERS**

Topcu O., ORGUNER U., Alatan A., ERCAN A. Ö.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.670-673

● **DELAY ESTIMATION BASED ON KINEMATIC TRACK INFORMATION WITHOUT TIME STAMPS**

Ozgen S., SARITAŞ E., ORGUNER U., Acar D.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1454-1458

● **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

● **Centralized Target Tracking with Propagation Delayed Measurements**

MEHMETCIK E., ORGUNER U.

16th International Conference on Information Fusion (FUSION), İstanbul, Turkey, 9 - 12 July 2013, pp.820-826

● **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 April 2013

● **Enhancing GPS positioning accuracy from the generation of ground-truth reference points for on-road urban navigation**

Bshara M., Orguner U., Gustafsson F., Van Biesen L.

20th IMEKO World Congress 2012, Busan, South Korea, 9 - 14 September 2012, vol.2, pp.799-804

● **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, Singapore, 7 - 12 September 2012, pp.779-786

● **Estimation and maintenance of measurement rates for multiple extended target tracking**

Granström K., ORGUNER U.

15th International Conference on Information Fusion, FUSION 2012, Singapore, Singapore, 7 - 12 September 2012, pp.2170-2176

● **On the reduction of Gaussian inverse Wishart mixtures**

Granström K., ORGUNER U.

15th International Conference on Information Fusion, FUSION 2012, Singapore, Singapore, 7 - 12 September 2012, pp.2162-2169

● **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, Singapore, 7 - 12 September 2012, pp.2600-2607

● **On mixture reduction for multiple target tracking**

Ardehshiri T., ORGUNER U., Lundquist C., Schön T. B.

15th International Conference on Information Fusion, FUSION 2012, Singapore, Singapore, 7 - 12 September 2012, pp.692-699

● **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, United Kingdom, 16 - 17 May 2012, vol.2012, pp.2

● **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

● **Non-Linear Filtering based on Observations from Student's t Processes**

Saha S., Orguner U., Gustafsson F.

IEEE Aerospace Conference, Montana, United States Of America, 3 - 10 March 2012

● **ML Estimation of Process Noise Variance in Dynamic Systems**

Axelsson P., Orguner U., Gustafsson F., Norrlöf M.

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● **The benefits of down-sampling in the particle filter**

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14th International Conference on Information Fusion, Fusion 2011, Chicago, IL, United States Of America, 5 - 08 July 2011

● **Extended target tracking with a cardinalized probability hypothesis density filter**

Orguner U., Lundquist C., Granström K.

14th International Conference on Information Fusion, Fusion 2011, Chicago, IL, United States Of America, 5 - 08 July 2011

● **Estimating the shape of targets with a PHD filter**

Lundquist C., Granström K., Orguner U.

14th International Conference on Information Fusion, Fusion 2011, Chicago, IL, United States Of America, 5 - 08 July 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

● **Tracking rectangular and elliptical extended targets using laser measurements**

Granström K., Lundquist C., Orguner U.

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● **GPS positioning and ground-truth reference points generation**

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● **HUMAN GAIT PARAMETER ESTIMATION BASED ON MICRO-DOPPLER SIGNATURES USING PARTICLE FILTERS**

Guldogan M. B. , Gustafsson F., Orguner U., Bjorklund S., Petersson H., Nezirovic A.

IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Prague, Czech Republic, 22 - 27 May 2011, pp.5940-5943

● **Radar micro-doppler parameter estimation of human motion using particle filters Parcacik suzgeci kullanilarak insan yürüyüş ü radar mikro-doppler parametrelerinin kesti rilmesi**

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2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, Antalya, Turkey, 20 - 22 April 2011, pp.395-398

● **Non-linear filtering based on observations from Gaussian processes**

Gustafsson F., Saha S., Orguner U.

2011 IEEE Aerospace Conference, AERO 2011, Big Sky, MT, United States Of America, 5 - 12 March 2011

● **Multi target tracking with acoustic power measurements using emitted power density**

Orguner U., Gustafsson F.

13th Conference on Information Fusion, Fusion 2010, Edinburgh, United Kingdom, 26 - 29 July 2010

● **Estimating polynomial structures from radar data**

Lundquist C., Orguner U., Gustafsson F.

13th Conference on Information Fusion, Fusion 2010, Edinburgh, United Kingdom, 26 - 29 July 2010

● **A Gaussian mixture PHD filter for extended target tracking**

Granström K., Lundquist C., Orguner U.

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● **Combined Point-Mass and Particle Filter for Target Tracking**

Orguner U., Skoglar P., Tornqvist D., Gustafsson F.

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Particle Filtering with Propagation Delayed Measurements

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Tracking in WiMAX Networks Using Cell-IDs

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Road Target Tracking with an Approximative Rao-Blackwellized Particle Filter

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12th International Conference on Information Fusion, Washington, United States Of America, 6 - 09 July 2009, pp.17-24

Distributed Target Tracking with Propagation Delayed Measurements

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Tracking Stationary Extended Objects for Road Mapping using Radar Measurements

Lundquist C., Orguner U., Schon T. B.

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Entropy Calculation in Particle Filters

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Tracking in WiMAX Networks depending on SCORE measurements

Bshara M., Orguner U., Gustafsson F., Van Biesen L.

6th Workshop on Positioning, Navigation and Communication, Hannover, Germany, 19 March 2009, pp.229-230

Improved Target Tracking with Road Network Information

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On Information Measures based on Particle Mixture for Optimal Bearings-only Tracking

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2009 IEEE Aerospace Conference, Montana, United States Of America, 7 - 14 March 2009, pp.1801-1804

Storage efficient particle filters for the out of sequence measurement problem

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Target tracking using delayed measurements with implicit constraints

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Simple real-time condition monitoring tools for low-cost motor drives

AKIN B., TOLİYAT H. A., ORGUNER U., RAYNER M.

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Statistical characteristics of Harris corner detector

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Risk sensitive particle filters for mitigating sample impoverishment

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Phase sensitive detection of motor fault signatures in the presence of noise

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● **PWM inverter harmonics contributions to the inverter-fed induction machine bearing fault diagnosis**

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● **Low-cost motor drive-embedded fault diagnosis a simple harmonic analyzer**

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22nd Annual IEEE Applied Power Electronics Conference (APEC 2007), California, United States Of America, 25 February - 01 March 2007, pp.243-244

● **An efficient algorithm for pitch determination of speech signals-Kalman filter approach**

Salor O., DEMİREKLER M., ORGUNER U.

IEEE 14th Signal Processing and Communications Applications, Antalya, Turkey, 16 - 19 April 2006, pp.309-310

● **A Comparative Study on Non-Linear State Estimators Applied to Sensorless AC Drives: MRAS and Kalman Filter**

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30th Annual Conference of the IEEE-Industrial-Electronics-Society (IECON), Busan, South Korea, 2 - 06 November 2004, pp.2148-2153

● **A comparative study on Kalman filtering techniques designed for state estimation of industrial AC drive systems**

Akin B., Orguner U., Ersak A.

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● **An experimental performance test of a derivative-free non-linear state observer designed for sensorless AC drives**

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● **State estimation of induction motor using unscented Kalman filter**

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Citations

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