

# Umut Orguner

## List of Publications by Year in descending order

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70  
papers

2,095  
citations

304743

22  
h-index

395702

33  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1506  
citing authors

#	ARTICLE	IF	CITATIONS
1	A phd Filter for Tracking Multiple Extended Targets Using Random Matrices. IEEE Transactions on Signal Processing, 2012, 60, 5657-5671.	5.3	217
2	Fingerprinting Localization in Wireless Networks Based on Received-Signal-Strength Measurements: A Case Study on WiMAX Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 283-294.	6.3	195
3	A Gaussian mixture PHD filter for extended target tracking. , 2010, , .		144
4	Extended Target Tracking using a Gaussian-Mixture PHD Filter. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 3268-3286.	4.7	143
5	An Extended Target CPHD Filter and a Gamma Gaussian Inverse Wishart Implementation. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 472-483.	10.8	123
6	Low Order PWM Inverter Harmonics Contributions to the Inverter-Fed Induction Machine Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2008, 55, 610-619.	7.9	116
7	A Simple Real-Time Fault Signature Monitoring Tool for Motor-Drive-Embedded Fault Diagnosis Systems. IEEE Transactions on Industrial Electronics, 2011, 58, 1990-2001.	7.9	94
8	Approximate Bayesian Smoothing with Unknown Process and Measurement Noise Covariances. IEEE Signal Processing Letters, 2015, 22, 2450-2454.	3.6	92
9	A Variational Measurement Update for Extended Target Tracking With Random Matrices. IEEE Transactions on Signal Processing, 2012, 60, 3827-3834.	5.3	69
10	Phase-Sensitive Detection of Motor Fault Signatures in the Presence of Noise. IEEE Transactions on Industrial Electronics, 2008, 55, 2539-2550.	7.9	65
11	Simple Derivative-Free Nonlinear State Observer for Sensorless AC Drives. IEEE/ASME Transactions on Mechatronics, 2006, 11, 634-643.	5.8	62
12	New prediction for extended targets with random matrices. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1577-1589.	4.7	57
13	On Spawning and Combination of Extended/Group Targets Modeled With Random Matrices. IEEE Transactions on Signal Processing, 2013, 61, 678-692.	5.3	50
14	A fine-resolution frequency estimator using an arbitrary number of DFT coefficients. Signal Processing, 2014, 105, 17-21.	3.7	44
15	Road Target Search and Tracking with Gimballed Vision Sensor on an Unmanned Aerial Vehicle. Remote Sensing, 2012, 4, 2076-2111.	4.0	43
16	Maximum Likelihood Estimation of Transition Probabilities of Jump Markov Linear Systems. IEEE Transactions on Signal Processing, 2008, 56, 5093-5108.	5.3	41
17	Risk-sensitive filtering for jump Markov linear systems. Automatica, 2008, 44, 109-118.	5.0	40
18	Chernoff fusion of Gaussian mixtures based on sigma-point approximation. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2732-2746.	4.7	40

#	ARTICLE	IF	CITATIONS
19	Robust Tracking in Cellular Networks Using HMM Filters and Cell-ID Measurements. IEEE Transactions on Vehicular Technology, 2011, 60, 1016-1024.	6.3	36
20	Multi-target tracking with PHD filter using Doppler-only measurements. , 2014, 27, 1-11.		35
21	Target Tracking With Particle Filters Under Signal Propagation Delays. IEEE Transactions on Signal Processing, 2011, 59, 2485-2495.	5.3	31
22	Risk-Sensitive Particle Filters for Mitigating Sample Impoverishment. IEEE Transactions on Signal Processing, 2008, 56, 5001-5012.	5.3	29
23	Extended Target Tracking Using Polynomials With Applications to Road-Map Estimation. IEEE Transactions on Signal Processing, 2011, 59, 15-26.	5.3	26
24	A comparative study on non-linear state estimators applied to sensorless AC drives: MRAS and Kalman filter. , 0, , .		24
25	An online sequential algorithm for the estimation of transition probabilities for jump Markov linear systems. Automatica, 2006, 42, 1735-1744.	5.0	23
26	Random Set Methods: Estimation of Multiple Extended Objects. IEEE Robotics and Automation Magazine, 2014, 21, 73-82.	2.0	22
27	Tracking stationary extended objects for road mapping using radar measurements. , 2009, , .		16
28	Statistical Characteristics of Harris Corner Detector. , 2007, , .		13
29	Greedy Reduction Algorithms for Mixtures of Exponential Family. IEEE Signal Processing Letters, 2015, 22, 676-680.	3.6	13
30	On information measures based on particle mixture for optimal bearings-only tracking. , 2009, , .		12
31	ML Estimation of Process Noise Variance in Dynamic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5609-5614.	0.4	12
32	PWM Inverter Harmonics Contributions to the Inverter-Fed Induction Machine Bearing Fault Diagnosis. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	11
33	Improved target tracking with road network information. , 2009, , .		11
34	Corrections on: "Extended Target Tracking Using a Gaussian-Mixture PHD Filter" IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1055-1058.	4.7	11
35	Approximate analytical solutions for the weight optimization problems of CI and ICI. , 2017, , .		11
36	Analysis of single Gaussian approximation of Gaussian mixtures in Bayesian filtering applied to mixed multiple-model estimation. International Journal of Control, 2007, 80, 952-967.	1.9	9

#	ARTICLE	IF	CITATIONS
37	On parametric lower bounds for discrete-time filtering. , 2016, , .		9
38	Navigation and Tracking of Road-Bound Vehicles Using Map Support. , 2012, , 397-434.		9
39	Human gait parameter estimation based on micro-doppler signatures using particle filters. , 2011, , .		8
40	Pedestrian tracking with an infrared sensor using road network information. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	8
41	Phase Sensitive Detection of Motor Fault Signatures in the Presence of Noise. , 2007, , .		7
42	The moment function for the ratio of correlated generalized gamma variables. Statistics and Probability Letters, 2013, 83, 2353-2356.	0.7	7
43	The Marginal Enumeration Bayesian Cram�r-Rao Bound for Jump Markov Systems. IEEE Signal Processing Letters, 2014, 21, 464-468.	3.6	6
44	On the Cram�r-Rao lower bound under model mismatch. , 2015, , .		6
45	A Random Matrix Measurement Update Using Taylor-Series Approximations. , 2018, , .		6
46	Information Decorrelation for an Interacting Multiple Model Filter. , 2018, , .		6
47	Low-Cost Motor Drive-Embedded Fault Diagnosis - A Simple Harmonic Analyzer. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	5
48	Particle filtering with propagation delayed measurements. , 2010, , .		5
49	On generalized eigenvector space for target detection in reduced dimensions. , 2015, , .		5
50	Tracking in WiMAX Networks Using Cell-IDs. , 2009, , .		4
51	Estimating polynomial structures from radar data. , 2010, , .		4
52	Marginal Weiss-Weinstein bounds for discrete-time filtering. , 2015, , .		4
53	Combined point-mass and particle filter for target tracking. , 2010, , .		3
54	A Tighter Bayesian Cram�r-rao Bound. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
55	Bobrovsky-Zakai Bound for Filtering, Prediction and Smoothing of Nonlinear Dynamic Systems. , 2018, , .		2
56	Performance limits for the amplitude estimation of power system harmonics & interharmonics. IET Generation, Transmission and Distribution, 2020, 14, 4108-4121.	2.5	2
57	Risk Sensitive Particle Filters for Mitigating Sample Impoverishment. , 2007, , .		1
58	Entropy calculation in particle filters. , 2009, , .		1
59	Multi target tracking with acoustic power measurements using emitted power density. , 2010, , .		1
60	Non-linear filtering based on observations from Gaussian processes. , 2011, , .		1
61	Marginal Bayesian Bhattacharyya Bounds for Discrete-Time Filtering. , 2018, , .		1
62	Tracking in WiMAX networks depending on SCORE measurements. , 2009, , .		0
63	Olas&#x0131;l&#x0131;k Hipotez Yo&#x011F;unlu&#x011F;u S&#x00FC;zgeci kullanarak Akustik Sens&#x00F6;rlerle Kara Ara&#x00E7;lar&#x0131; Takibi. , 2012, , .		0
64	Non-linear filtering based on observations from Student's t processes. , 2012, , .		0
65	Multi-target tracking using passive Doppler measurements. , 2013, , .		0
66	Delay estimation based on kinematic track information without time stamps. , 2014, , .		0
67	3D tracking of people with rao-blackwellized particle filters. , 2014, , .		0
68	Dynamic quantization for track fusion under communication constraints. , 2015, , .		0
69	Slow Moving Target Detection for Airborne Radar Systems by Dynamic Programming on SAR Images. , 2019, , .		0
70	Decorrelation of Previously Communicated Information for an Interacting Multiple Model Filter. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 404-422.	4.7	0