Daniel E Clark

List of Publications by Year
in descending order

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Version: 2024-02-01

85 papers	2,541 citations	361413 20 h-index	276875 41 g-index
86 all docs	86 docs citations	86 times ranked	1059 citing authors

#	Article	IF	Citations
1	A CramÃ©r Rao Bound for Point Processes. IEEE Transactions on Information Theory, 2022, 68, 2147-2155.	2.4	4
2	A Formulation of the Adversarial Risk for Multiobject Filtering. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2082-2092.	4.7	2
3	An Algorithm for Large-Scale Multitarget Tracking and Parameter Estimation. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2053-2066.	4.7	15
4	Stochastic Multi-Object Guidance Laws for Interception and Rendezvous Problems. IEEE Transactions on Automatic Control, 2021, , 1-1.	5.7	2
5	Multi-Sensor Network Information for Linear-Gaussian Multi-Target Tracking Systems. IEEE Transactions on Signal Processing, 2021, 69, 4312-4325.	5.3	7
6	Linear-quadratic control of multiple interceptors. , 2021, , .		0
7	Local Entropy Statistics for Point Processes. IEEE Transactions on Information Theory, 2020, 66, 1155-1163.	2.4	10
8	Joint Registration and Fusion of an Infrared Camera and Scanning Radar in a Maritime Context. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1357-1369.	4.7	19
9	On a representation of partially-distinguishable populations. Statistics, 2020, 54, 23-45.	0.6	2
10	Joint stereo camera calibration and multi-target tracking using the linear-complexity factorial cumulant filter. , 2019, , .		1
11	Fusion of Finite-Set Distributions: Pointwise Consistency and Global Cardinality. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2759-2773.	4.7	33
12	Latent Parameter Estimation in Fusion Networks Using Separable Likelihoods. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 752-768.	2.8	10
13	A Second-Order PHD Filter With Mean and Variance in Target Number. IEEE Transactions on Signal Processing, 2018, 66, 48-63.	5.3	40
14	Novel Multi-Object Filtering Approach for Space Situational Awareness. Journal of Guidance, Control, and Dynamics, 2018, 41, 59-73.	2.8	20
15	A Linear-Complexity Second-Order Multi-Object Filter via Factorial Cumulants. , 2018, , .		9
16	Multitarget Filtering With Linearized Complexity. IEEE Transactions on Signal Processing, 2018, 66, 4957-4970.	5.3	12
17	A Tractable Forwardâ€“ Backward CPHD Smoother. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 201-217.	4.7	20
18	The CPHD Filter With Target Spawning. IEEE Transactions on Signal Processing, 2017, 65, 13124-13138.	5.3	26

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19	Joint multi-object and clutter rate estimation with the single-cluster PHD filter. , 2017, , .		5
20	Second-Order Statistics for Threat Assessment with the PHD Filter. , 2017, , .		3
21	Distributed estimation of latent parameters in state space models using separable likelihoods. , 2016, , .		0
22	Joint estimation of telescope drift and space object tracking. , 2016, , .		6
23	A spherical co-ordinate space parameterisation for orbit estimation. , 2016, , .		4
24	Tracking Small UAVs Using a Bernoulli Filter. , 2016, , .		1
25	A Unified Approach for Multi-Object Triangulation, Tracking and Camera Calibration. IEEE Transactions on Signal Processing, 2016, 64, 2934-2948.	5.3	27
26	A Cooperative Approach to Sensor Localisation in Distributed Fusion Networks. IEEE Transactions on Signal Processing, 2016, 64, 1187-1199.	5.3	33
27	Marker-Less Stage Drift Correction in Super-Resolution Microscopy Using the Single-Cluster PHD Filter. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 193-202.	10.8	19
28	A sequential Monte Carlo approximation of the HISP filter. , 2015, , .		5
29	Calibration of asynchronous smart phone cameras from moving objects. Proceedings of SPIE, 2015, , .	0.8	0
30	Maximum Likelihood Signal Parameter Estimation via Track Before Detect. , 2015, , .		3
31	Observing the Dynamics of Waterborne Pathogens for Assessing the Level of Contamination. , 2015, , .		1
32	Sensor Management with Regional Statistics for the PHD Filter. , 2015, , .		2
33	A novel approach to image calibration in super-resolution microscopy. , 2014, , .		2
34	Regional Variance for Multi-Object Filtering. IEEE Transactions on Signal Processing, 2014, 62, 3415-3428.	5.3	41
35	Target aided online sensor localisation in bearing only clusters. , 2014, , .		3
36	Performance metric in closed-loop sensor management for stochastic populations. , 2014, , .		1

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37	Accelerating the Single Cluster PHD Filter with a GPU implementation. , 2014, , .		3
38	Faà Di Bruno's formula and volterra series. , 2014, , .		1
39	SLAM with SC-PHD Filters: An Underwater Vehicle Application. IEEE Robotics and Automation Magazine, 2014, 21, 38-45.	2.0	15
40	Bayesian estimation of multi-object systems with independently identically distributed correlations. , 2014, , .		3
41	Cooperative sensor localisation in distributed fusion networks by exploiting non-cooperative targets. , 2014, , .		6
42	Distributed Fusion of PHD Filters Via Exponential Mixture Densities. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 521-531.	10.8	161
43	Simultaneous tracking of multiple particles and sensor position estimation in fluorescence microscopy images. , 2013, , .		5
44	SLAM With Dynamic Targets via Single-Cluster PHD Filtering. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 543-552.	10.8	78
45	Calibration of Multi-Target Tracking Algorithms Using Non-Cooperative Targets. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 390-398.	10.8	53
46	FaÃ di Brunoâ€™s formula and spatial cluster modelling. Spatial Statistics, 2013, 6, 109-117.	1.9	11
47	General multi-object filtering and association measure. , 2013, , .		8
48	Single cluster PHD SLAM: Application to autonomous underwater vehicles using stereo vision. , 2013, , .		6
49	PHD filtering with localised target number variance. Proceedings of SPIE, 2013, , .	0.8	4
50	SLAM with single cluster PHD filters. , 2012, , .		15
51	Distributed sensor registration based on random finite set representations. , 2012, , .		0
52	Particle filter for joint estimation of multi-object dynamic state and multi-sensor bias. , 2012, , .		15
53	Calibration of tracking systems using detections from non-cooperative targets. , 2012, , .		4
54	Adaptive Target Birth Intensity for PHD and CPHD Filters. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 1656-1668.	4.7	234

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55	A Metric for Performance Evaluation of Multi-Target Tracking Algorithms. IEEE Transactions on Signal Processing, 2011, 59, 3452-3457.	5.3	225
56	Bayesian Estimation of the Intensity for Independent Cluster Point Processes: An analytic solution. Procedia Environmental Sciences, 2011, 7, 56-61.	1.4	3
57	On the ordering of the sensors in the iterated-corrector probability hypothesis density (PHD) filter. Proceedings of SPIE, 2011, , .	0.8	20
58	Multi-object filtering with Poisson arrival-rate measurements. , 2011, , .		1
59	A Note on the Reward Function for PHD Filters with Sensor Control. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1521-1529.	4.7	109
60	A tracker based on a CPHD filter approach for infrared applications. , 2011, , .		5
61	Bernoulli Forward-Backward Smoothing for Joint Target Detection and Tracking. IEEE Transactions on Signal Processing, 2011, 59, 4473-4477.	5.3	77
62	First-moment filters for spatial independent cluster processes. Proceedings of SPIE, 2010, , .	0.8	17
63	First-moment multi-object forward-backward smoothing. , 2010, , .		9
64	Performance evaluation of multi-target tracking using the OSPA metric. , 2010, , .		31
65	Improved SMC implementation of the PHD filter. , 2010, , .		86
66	Extended object filtering using spatial independent cluster processes. , 2010, , .		25
67	The Cramer-Rao Lower Bound for 3-D state estimation from rectified stereo cameras. , 2010, , .		16
68	Bayesian Multi-Object Filtering With Amplitude Feature Likelihood for Unknown Object SNR. IEEE Transactions on Signal Processing, 2010, 58, 26-37.	5.3	68
69	Data Association and Track Management for the Gaussian Mixture Probability Hypothesis Density Filter. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 1003-1016.	4.7	200
70	Joint target-detection and tracking smoothers. Proceedings of SPIE, 2009, , .	0.8	3
71	Gaussian mixture implementations of probability hypothesis density filters for non-linear dynamical models. , 2008, , .		10
72	Group Target Tracking with the Gaussian Mixture Probability Hypothesis Density Filter. , 2007, , .		44

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73	Gaussian Particle Implementations of Probability Hypothesis Density Filters. , 2007, , .		33
74	Convergence Analysis of the Gaussian Mixture PHD Filter. IEEE Transactions on Signal Processing, 2007, 55, 1204-1212.	5.3	96
75	Multi-Object Tracking of Sinusoidal Components in Audio with the Gaussian Mixture Probability Hypothesis Density Filter. , 2007, , .		5
76	Particle PHD filter multiple target tracking in sonar image. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 409-416.	4.7	78
77	Detection and Tracking of Multiple Metallic Objects in Millimetre-Wave Images. International Journal of Computer Vision, 2007, 71, 183-196.	15.6	40
78	Multi-target state estimation and track continuity for the particle PHD filter. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 1441-1453.	4.7	11
79	The GM-PHD Filter Multiple Target Tracker. , 2006, , .		82
80	Convergence results for the particle PHD filter. IEEE Transactions on Signal Processing, 2006, 54, 2652-2661.	5.3	82
81	Multiple target tracking and data association in sonar images. , 2006, , 153.		9
82	GM-PHD filter multitarget tracking in sonar images. , 2006, , .		26
83	An Efficient Track Management Scheme for the Gaussian-Mixture Probability Hypothesis Density Tracker. , 2006, , .		27
84	Bayesian multiple target tracking in forward scan sonar images using the PHD filter. IET Radar, Sonar & Navigation, 2005, 152, 327.	2.1	65
85	PHD filter multi-target tracking in 3D sonar. , 2005, , .		17