

# Kyle J Demars

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

549  
citations

1039880

9  
h-index

794469

19  
g-index

50  
all docs

50  
docs citations

50  
times ranked

247  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropy-Based Approach for Uncertainty Propagation of Nonlinear Dynamical Systems. Journal of Guidance, Control, and Dynamics, 2013, 36, 1047-1057.	1.6	108
2	Probabilistic Initial Orbit Determination Using Gaussian Mixture Models. Journal of Guidance, Control, and Dynamics, 2013, 36, 1324-1335.	1.6	91
3	Initial Orbit Determination using Short-Arc Angle and Angle Rate Data. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 2628-2637.	2.6	85
4	Collision Probability with Gaussian Mixture Orbit Uncertainty. Journal of Guidance, Control, and Dynamics, 2014, 37, 979-985.	1.6	48
5	Underweighting Nonlinear Measurements. Journal of Guidance, Control, and Dynamics, 2010, 33, 1670-1675.	1.6	33
6	Multiple-Object Space Surveillance Tracking Using Finite-Set Statistics. Journal of Guidance, Control, and Dynamics, 2015, 38, 1741-1756.	1.6	26
7	Joseph Formulation of Unscented and Quadrature Filters with Application to Consider States. Journal of Guidance, Control, and Dynamics, 2013, 36, 1860-1864.	1.6	18
8	Bearings-Only Initial Relative Orbit Determination. Journal of Guidance, Control, and Dynamics, 2015, 38, 1699-1713.	1.6	11
9	Design and Analysis of Descent-to-Landing Navigation Incorporating Terrain Effects. Journal of Spacecraft and Rockets, 2020, 57, 261-277.	1.3	11
10	Particle Filter Methods for Space Object Tracking. , 2014, , .		10
11	Analysis of a Second-Order Relative Motion Lambert Solver. , 2014, , .		7
12	Recursive Filtering of Star Tracker Data. , 2016, , .		7
13	Anonymous Feature-Based Terrain Relative Navigation. Journal of Guidance, Control, and Dynamics, 2020, 43, 410-421.	1.6	7
14	The data-driven delta-generalized labeled multi-Bernoulli tracker for automatic birth initialization. , 2018, , .		7
15	Considering Uncertain Parameters in Non-Gaussian Estimation for Single-Target and Multitarget Tracking. Journal of Guidance, Control, and Dynamics, 2017, 40, 2138-2150.	1.6	6
16	Comparison of Factorization-based Filtering for Landing Navigation. , 2017, , .		5
17	Terrain Relative Navigation With Anonymous Features. , 2019, , .		5
18	Modular framework for implementation and analysis of recursive filters with considered and neglected parameters. Navigation, Journal of the Institute of Navigation, 2020, 67, 843-863.	1.7	5

#	ARTICLE	IF	CITATIONS
19	Projecting High-Dimensional Parametric Uncertainties for Improved State Estimation Error Confidence. <i>Journal of Guidance, Control, and Dynamics</i> , 2015, 38, 1659-1672.	1.6	4
20	The Information Content of Data Arcs for Multi-Step Sensor Tasking. , 2018, , .		4
21	Fusion Methodologies for Orbit Determination with Distributed Sensor Networks. , 2018, , .		4
22	Square-Root Consider Filters with Hyperbolic Householder Reflections. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 2098-2111.	1.6	4
23	Nonlinear Gaussian Mixture Filtering with Intrinsic Fault Resistance. <i>Journal of Guidance, Control, and Dynamics</i> , 0, , 1-14.	1.6	4
24	Multi-Sensor Data Fusion in Non-Gaussian Orbit Determination. , 2014, , .		3
25	An Inertial Dual-State State Estimator for Precision Planetary Landing with Hazard Detection and Avoidance. , 2016, , .		3
26	Including Topographical Effects in Slant-Range Modeling. , 2018, , .		3
27	A Bi-quintic Latitude/Longitude Spline and Lunar Surface Modeling for Spacecraft Navigation. <i>Journal of the Astronautical Sciences</i> , 2020, 67, 657-703.	0.8	3
28	Anonymous Feature Processing for Efficient Onboard Navigation. , 2020, , .		3
29	The Bingham-Gauss Mixture Filter for Pose Estimation. , 2016, , .		2
30	Approach-Phase Precision Landing with Hazard Relative Navigation: Terrestrial Test Campaign Results of the Morpheus/ALHAT Project. , 2016, , .		2
31	Robust, Terrain-Aided Landing Navigation Through Decentralized Fusion and Random Finite Sets. , 2018, , .		2
32	Vision-based, terrain-aided navigation with decentralized fusion and finite set statistics. <i>Navigation, Journal of the Institute of Navigation</i> , 2019, 66, 537-557.	1.7	2
33	Fusion of Multiple Terrain-Based Sensors for Descent-to-Landing Navigation. , 2019, , .		2
34	Angular Correlation Using Rogers-Szegő-Chaos. <i>Mathematics</i> , 2020, 8, 171.	1.1	2
35	Navigation Performance of Air Data Systems for Atmospheric Entry and Descent. , 2022, , .		2
36	Efficient multi-sensor data fusion for space surveillance. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Feature-Based Robotic Mapping with Generalized Labeled Multi-Bernoulli Filters for Planetary Landers. , 2016, , .		1
38	A Comparison of Linear Attitude Estimators. , 2018, , .		1
39	Smoothing for Nonlinear Multi-target Filters with Gaussian Mixture Approximations. , 2018, , .		1
40	Impact of Sensor Model Fidelity and Scheduling on Navigation Performance. , 2018, , .		1
41	Impartial Sensor Tasking via Forecasted Information Content Quantification. Journal of Guidance, Control, and Dynamics, 2020, 43, 2031-2045.	1.6	1
42	Information-based Particle Flow for High Uncertainty Estimation. , 2020, , .		1
43	Propagation of Errors Through Coning, Sculling, and Scrolling Correction Algorithms. , 2020, , .		1
44	Information-Based Particle Flow With Convergence Control. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1377-1390.	2.6	1
45	Asynchronous Processing of Measurements with Uncertain Latencies in a Factorized, Consider-Neglect Navigation Filter. , 2022, , .		1
46	Optimization Strategies for Myopic and Forecasted Divergence-Based Sensor Tasking Objectives. , 2020, , .		0
47	Impact of Considering and Neglecting States on Descent-to-Landing Navigation. , 2020, , .		0
48	Adaptive Confidence Filter Update for High Uncertainty Environments. , 2020, , .		0
49	Uncertainty Propagation for Inertial Navigation with Coning, Sculling, and Scrolling Corrections. Sensors, 2021, 21, 8457.	2.1	0