

Kyle J Demars

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

549
citations

1039406

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794141

19
g-index

50
all docs

50
docs citations

50
times ranked

247
citing authors

#	ARTICLE	IF	CITATIONS
1	Information-Based Particle Flow With Convergence Control. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1377-1390.	2.6	1
2	Navigation Performance of Air Data Systems for Atmospheric Entry and Descent. , 2022, , .		2
3	Asynchronous Processing of Measurements with Uncertain Latencies in a Factorized, Consider-Neglect Navigation Filter. , 2022, , .		1
4	Uncertainty Propagation for Inertial Navigation with Coning, Sculling, and Scrolling Corrections. Sensors, 2021, 21, 8457.	2.1	0
5	A Bi-quintic Latitude/Longitude Spline and Lunar Surface Modeling for Spacecraft Navigation. Journal of the Astronautical Sciences, 2020, 67, 657-703.	0.8	3
6	Anonymous Feature-Based Terrain Relative Navigation. Journal of Guidance, Control, and Dynamics, 2020, 43, 410-421.	1.6	7
7	Design and Analysis of Descent-to-Landing Navigation Incorporating Terrain Effects. Journal of Spacecraft and Rockets, 2020, 57, 261-277.	1.3	11
8	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
9	Impartial Sensor Tasking via Forecasted Information Content Quantification. Journal of Guidance, Control, and Dynamics, 2020, 43, 2031-2045.	1.6	1
10	Optimization Strategies for Myopic and Forecasted Divergence-Based Sensor Tasking Objectives. , 2020, , .		0
11	Impact of Considering and Neglecting States on Descent-to-Landing Navigation. , 2020, , .		0
12	Adaptive Confidence Filter Update for High Uncertainty Environments. , 2020, , .		0
13	Information-based Particle Flow for High Uncertainty Estimation. , 2020, , .		1
14	Angular Correlation Using Rogers-Szegő-Chaos. Mathematics, 2020, 8, 171.	1.1	2
15	Propagation of Errors Through Coning, Sculling, and Scrolling Correction Algorithms. , 2020, , .		1
16	Anonymous Feature Processing for Efficient Onboard Navigation. , 2020, , .		3
17	Vision-based, terrain-aided navigation with decentralized fusion and finite set statistics. Navigation, Journal of the Institute of Navigation, 2019, 66, 537-557.	1.7	2
18	Fusion of Multiple Terrain-Based Sensors for Descent-to-Landing Navigation. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	Terrain Relative Navigation With Anonymous Features. , 2019, , .		5
20	A Comparison of Linear Attitude Estimators. , 2018, , .		1
21	Smoothing for Nonlinear Multi-target Filters with Gaussian Mixture Approximations. , 2018, , .		1
22	Including Topographical Effects in Slant-Range Modeling. , 2018, , .		3
23	Impact of Sensor Model Fidelity and Scheduling on Navigation Performance. , 2018, , .		1
24	Robust, Terrain-Aided Landing Navigation Through Decentralized Fusion and Random Finite Sets. , 2018, , .		2
25	The Information Content of Data Arcs for Multi-Step Sensor Tasking. , 2018, , .		4
26	Fusion Methodologies for Orbit Determination with Distributed Sensor Networks. , 2018, , .		4
27	Square-Root Consider Filters with Hyperbolic Householder Reflections. Journal of Guidance, Control, and Dynamics, 2018, 41, 2098-2111.	1.6	4
28	The data-driven delta-generalized labeled multi-Bernoulli tracker for automatic birth initialization. , 2018, , .		7
29	Comparison of Factorization-based Filtering for Landing Navigation. , 2017, , .		5
30	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
31	Feature-Based Robotic Mapping with Generalized Labeled Multi-Bernoulli Filters for Planetary Landers. , 2016, , .		1
32	The Bingham-Gauss Mixture Filter for Pose Estimation. , 2016, , .		2
33	Recursive Filtering of Star Tracker Data. , 2016, , .		7
34	Approach-Phase Precision Landing with Hazard Relative Navigation: Terrestrial Test Campaign Results of the Morpheus/ALHAT Project. , 2016, , .		2
35	An Inertial Dual-State State Estimator for Precision Planetary Landing with Hazard Detection and Avoidance. , 2016, , .		3
36	Projecting High-Dimensional Parametric Uncertainties for Improved State Estimation Error Confidence. Journal of Guidance, Control, and Dynamics, 2015, 38, 1659-1672.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Bearings-Only Initial Relative Orbit Determination. Journal of Guidance, Control, and Dynamics, 2015, 38, 1699-1713.	1.6	11
38	Multiple-Object Space Surveillance Tracking Using Finite-Set Statistics. Journal of Guidance, Control, and Dynamics, 2015, 38, 1741-1756.	1.6	26
39	Efficient multi-sensor data fusion for space surveillance. , 2015, , .		1
40	Collision Probability with Gaussian Mixture Orbit Uncertainty. Journal of Guidance, Control, and Dynamics, 2014, 37, 979-985.	1.6	48
41	Analysis of a Second-Order Relative Motion Lambert Solver. , 2014, , .		7
42	Particle Filter Methods for Space Object Tracking. , 2014, , .		10
43	Multi-Sensor Data Fusion in Non-Gaussian Orbit Determination. , 2014, , .		3
44	Probabilistic Initial Orbit Determination Using Gaussian Mixture Models. Journal of Guidance, Control, and Dynamics, 2013, 36, 1324-1335.	1.6	91
45	Entropy-Based Approach for Uncertainty Propagation of Nonlinear Dynamical Systems. Journal of Guidance, Control, and Dynamics, 2013, 36, 1047-1057.	1.6	108
46	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
47	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
48	Underweighting Nonlinear Measurements. Journal of Guidance, Control, and Dynamics, 2010, 33, 1670-1675.	1.6	33
49	Nonlinear Gaussian Mixture Filtering with Intrinsic Fault Resistance. Journal of Guidance, Control, and Dynamics, 0, , 1-14.	1.6	4