Bin Jia

List of Publications by Year
in descending order

53 papers	**1,103** citations

1039406
9 h-index

794141
19 g-index

53 all docs	**53** docs citations

53 times ranked

595 citing authors

#	Article	IF	Citations
1	Conjunction Time and Collision Probability Calculation Based on Bayesian Optimization. , 2021, , .		0
2	Active Sampling Based Polynomial-Chaos–Kriging Model for Orbital Uncertainty Propagation. Journal of Guidance, Control, and Dynamics, 2021, 44, 905-922.	1.6	8
3	Data-Driven Enhanced Nonlinear Gaussian Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1144-1148.	2.2	4
4	Orbital Uncertainty Propagation with PC-Kriging. , 2020, , .		0
5	Orbital Uncertainty Propagation via Multi-Element Arbitrary Polynomial Chaos. , 2020, , .		0
6	Short-Arc Orbital Uncertainty Propagation with Arbitrary Polynomial Chaos and Admissible Region. Journal of Guidance, Control, and Dynamics, 2020, 43, 715-728.	1.6	9
7	Refined Nonlinear Gaussian Quadrature Filter. , 2019, , .		4
8	Diffusion-based cooperative space object tracking. Optical Engineering, 2019, 58, 1.	0.5	9
9	Autonomy in use for space situation awareness. , 2019, , .		3
10	Robust Nonlinear Filter Using Adaptive Edgeworth Expansion. , 2018, , .		1
11	A robotic orbital emulator with lidar-based SLAM and AMCL for multiple entity pose estimation. , 2018, , .		0
12	An anti-jamming GPS receiver antenna testing system. , 2018, , .		0
13	Investigation of the dynamic enhanced cubature Kalman filter. , 2018, , .		1
14	Distributed Cubature Gaussian Mixture Filters. , 2017, , .		2
15	Orbital Uncertainty Propagation Using Positive Weighted Compact Quadrature Rule. Journal of Spacecraft and Rockets, 2017, 54, 683-697.	1.3	3
16	Cooperative angle-only orbit initialization via fusion of admissible areas. Proceedings of SPIE, 2017, , .	0.8	0
17	Consensus-based auction algorithm for distributed sensor management in space object tracking. , 2017, , .		6
18	An orbital emulator for pursuit-evasion game theoretic sensor management. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Iterative Diffusion-Based Distributed Cubature Gaussian Mixture Filter for Multisensor Estimation. Sensors, 2016, 16, 1741.	2.1	4
20	Pursuit-evasion game theoretic uncertainty oriented sensor management for elusive space objects. , 2016, , .		1
21	Accelerated space object tracking via graphic processing unit. , 2016, , .		0
22	A satellite orbital testbed for SATCOM using mobile robots. , 2016, , .		0
23	Adaptive cubature Kalman filter with directional uncertainties [Correspondence]. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1477-1486.	2.6	8
24	Cooperative space object tracking using space-based optical sensors via consensus-based filters. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1908-1936.	2.6	106
25	Positive Weighted Compact Quadrature Rule for Uncertainty Propagation and Nonlinear Estimation. , 2016, , .		1
26	Space based sensor management strategies based on informational uncertainty pursuit-evasion games. , 2015, , .		3
27	Multiple sensor estimation using a new fifth-degree cubature information filter. Transactions of the Institute of Measurement and Control, 2015, 37, 15-24.	1.1	28
28	Space object tracking and maneuver detection via interacting multiple model cubature Kalman filters. , 2015, , .		4
29	Nonlinearity-based adaptive sparse-grid quadrature filter. , 2015, , .		6
30	Relations Between Sparse-Grid Quadrature Rule and Spherical-Radial Cubature Rule in Nonlinear Gaussian Estimation. IEEE Transactions on Automatic Control, 2015, 60, 199-204.	3.6	22
31	Adaptive radial rule based cubature Kalman filter. , 2015, , .		6
32	A new class of nonlinear Rauch–Tung–Striebel cubature Kalman smoothers. ISA Transactions, 2015, 55, 72-80.	3.1	9
33	High-degree cubature joint probabilistic data association information filter for multiple sensor multiple target tracking. , 2014, , .		2
34	Regularized EM algorithm for sparse parameter estimation in nonlinear dynamic systems with application to gene regulatory network inference. Eurasip Journal on Bioinformatics and Systems Biology, 2014, 2014, 5.	1.4	4
35	High-degree cubature Kalman filter. Automatica, 2013, 49, 510-518.	3.0	387
36	Vision-Based Spacecraft Relative Navigation Using Sparse-Grid Quadrature Filter. IEEE Transactions on Control Systems Technology, 2013, 21, 1595-1606.	3.2	23

#	ARTICLE	IF	CITATIONS
37	Multiple sensor estimation using a high-degree cubature information filter. , 2013, , .		13
38	Sparse-Grid Quadrature H_∞ Filter for Discrete-Time Systems with Uncertain Noise Statistics. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 1626-1636.	2.6	21
39	Gene regulatory network inference by point-based Gaussian approximation filters incorporating the prior information. Eurasip Journal on Bioinformatics and Systems Biology, 2013, 2013, 16.	1.4	5
40	Performance Comparison Between Extended Kalman Filter and Sparse Grid Quadrature Filter for Spacecraft Attitude Estimation Using Low Grade Attitude Sensors. , 2013, , .		0
41	Rauch-Tung-Striebel high-degree cubature Kalman smoother. , 2013, , .		1
42	Uncertainty propagation via multi-element grid. , 2013, , .		1
43	Sparse-Grid Quadrature H-infinity Filter for Discrete-time Systems with Uncertain Noise Statistics. , 2013, , .		0
44	Stochastic Collocation Method for Uncertainty Propagation. , 2012, , .		12
45	Vision-based spacecraft relative navigation using the sparse Gauss-Hermite quadrature filter. , 2012, , .		1
46	The high-degree cubature Kalman filter. , 2012, , .		10
47	Multiple sensor estimation using the sparse Gauss-Hermite quadrature information filter. , 2012, , .		4
48	Comparison of the sparse-grid quadrature rule and the cubature rule in nonlinear filtering. , 2012, , .		2
49	Anisotropic Sparse Gauss-Hermite Quadrature Filter. Journal of Guidance, Control, and Dynamics, 2012, 35, 1014-1022.	1.6	7
50	On-line battery state of charge estimation using Gauss-Hermite quadrature filter. , 2012, , .		6
51	Sparse-grid quadrature nonlinear filtering. Automatica, 2012, 48, 327-341.	3.0	230
52	Anisotropic Sparse Gauss-Hermite Quadrature Filter. , 2011, , .		2
53	Sparse Gauss-Hermite Quadrature Filter with Application to Spacecraft Attitude Estimation. Journal of Guidance, Control, and Dynamics, 2011, 34, 367-379.	1.6	122