

Stephen A Gadsden

List of Publications by Year in descending order

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58
papers

964
citations

516561

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477173

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g-index

59
all docs

59
docs citations

59
times ranked

659
citing authors

#	ARTICLE	IF	CITATIONS
1	Gaussian filters for parameter and state estimation: A general review of theory and recent trends. <i>Signal Processing</i> , 2017, 135, 218-238.	2.1	139
2	Novel Model-Based Estimators for the Purposes of Fault Detection and Diagnosis. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 1237-1249.	3.7	77
3	Parameter estimation of PV solar cells and modules using Whippy Harris Hawks Optimization Algorithm. <i>Energy Reports</i> , 2021, 7, 4047-4063.	2.5	67
4	Combined cubature Kalman and smooth variable structure filtering: A robust nonlinear estimation strategy. <i>Signal Processing</i> , 2014, 96, 290-299.	2.1	64
5	A Comprehensive Survey of Control Strategies for Autonomous Quadrotors. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2020, 43, 3-16.	1.5	60
6	Kalman filtering strategies utilizing the chattering effects of the smooth variable structure filter. <i>Signal Processing</i> , 2013, 93, 420-431.	2.1	54
7	An overview of autonomous crop row navigation strategies for unmanned ground vehicles. <i>Engineering in Agriculture, Environment and Food</i> , 2019, 12, 24-31.	0.2	48
8	Combined Quaternion-Based Error State Kalman Filtering and Smooth Variable Structure Filtering for Robust Attitude Estimation. <i>IEEE Access</i> , 2019, 7, 148989-149004.	2.6	27
9	Optimal Power Flow via Teaching-Learning-Studying-Based Optimization Algorithm. <i>Electric Power Components and Systems</i> , 2021, 49, 584-601.	1.0	25
10	The Sliding Innovation Filter. <i>IEEE Access</i> , 2020, 8, 96129-96138.	2.6	24
11	Wild Geese Algorithm: A novel algorithm for large scale optimization based on the natural life and death of wild geese. <i>Array</i> , 2021, 11, 100074.	2.5	23
12	The smooth variable structure filter: A comprehensive review. , 2021, 110, 102912.		21
13	IoT-Based Smart Home Device Monitor Using Private Blockchain Technology and Localization. <i>IEEE Networking Letters</i> , 2021, 3, 52-55.	1.5	20
14	Artificial neural network training utilizing the smooth variable structure filter estimation strategy. <i>Neural Computing and Applications</i> , 2016, 27, 537-548.	3.2	19
15	A Novel Multiple-Model Adaptive Kalman Filter for an Unknown Measurement Loss Probability. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	2.4	18
16	Advances of the smooth variable structure filter: square-root and two-pass formulations. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 015018.	0.6	17
17	A nonlinear second-order filtering strategy for state estimation of uncertain systems. <i>Signal Processing</i> , 2019, 155, 182-192.	2.1	17
18	A greedy non-hierarchical grey wolf optimizer for real-world optimization. <i>Electronics Letters</i> , 2021, 57, 499-501.	0.5	17

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19	Automated Cart with VIS/NIR Hyperspectral Reflectance and Fluorescence Imaging Capabilities. Applied Sciences (Switzerland), 2017, 7, 3.	1.3	15
20	Enhanced Bioinspired Backstepping Control for a Mobile Robot With Unscented Kalman Filter. IEEE Access, 2020, 8, 125899-125908.	2.6	15
21	Lattice Kalman Filters. IEEE Signal Processing Letters, 2021, 28, 1355-1359.	2.1	15
22	A Study of the COVID-19 Impacts on the Canadian Population. IEEE Access, 2020, 8, 128240-128249.	2.6	14
23	Identification of Variable Importance for Predictions of Mortality From COVID-19 Using AI Models for Ontario, Canada. Frontiers in Public Health, 2021, 9, 675766.	1.3	14
24	A novel hyperspectral line-scan imaging method for whole surfaces of round shaped agricultural products. Biosystems Engineering, 2019, 188, 57-66.	1.9	13
25	An Adaptive Formulation of the Sliding Innovation Filter. IEEE Signal Processing Letters, 2021, 28, 1295-1299.	2.1	13
26	A Shrinking Horizon Model Predictive Controller for Daily Scheduling of Home Energy Management Systems. IEEE Access, 2022, 10, 29716-29730.	2.6	12
27	Health Monitoring of Lithium-Ion Batteries Using Dual Filters. Energies, 2022, 15, 2230.	1.6	12
28	Explicit Nonlinear MPC for Fault Tolerance Using Interacting Multiple Models. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2784-2794.	2.6	11
29	An Adaptive PID Controller Based on Bayesian Theory. , 2017, , .		9
30	Development of Proportionalâ€“Integralâ€“Derivative and Fuzzy Control Strategies for Navigation in Agricultural Environments. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	8
31	A cooperative exploration strategy with efficient backtracking for mobile robots. , 2017, , .		7
32	System and mathematical modeling of quadrotor dynamics. Proceedings of SPIE, 2015, , .	0.8	6
33	Comparison of gradient methods for gain tuning of a PD controller applied on a quadrotor system. Proceedings of SPIE, 2016, , .	0.8	6
34	Quadrature Kalman filters with applications to robotic manipulators. , 2017, , .		6
35	Air-LUSI: Development of a pointing and tracking control system for lunar spectral measurements. Acta Astronautica, 2020, 176, 558-566.	1.7	5
36	LED Reliability Assessment Using a Novel Monte Carlo-Based Algorithm. IEEE Transactions on Device and Materials Reliability, 2021, 21, 338-347.	1.5	5

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37	Dynamic Modeling and Motion Control of a Three-Link Robotic Manipulator. Proceedings of International Conference on Artificial Life and Robotics, 2017, 22, 380-383.	0.1	5
38	A Study of Variable Structure and Sliding Mode Filters for Robust Estimation of Mechatronic Systems. , 2020, , .		4
39	Comparison of nonlinear filtering techniques for photonic systems with blackbody radiation. Applied Optics, 2020, 59, 9303.	0.9	4
40	Air-LUSI: A robotic telescope design for lunar spectral measurements. Advances in Space Research, 2020, 65, 2315-2323.	1.2	3
41	The irradiance instrument subsystem (IRIS) on the airborne-lunar spectral irradiance (air-LUSI) instrument. Measurement Science and Technology, 2022, 33, 065021.	1.4	3
42	A comparison of vibration control strategies for a flexible-link robot arm. , 2015, , .		2
43	Air-LUSI: Estimation, Filtering, and PID Tracking Simulation. , 2018, , .		2
44	Mobile Robot Motion Tracking Using Descriptor Matching and Sensor Fusion. , 2018, , .		2
45	Cooperative Sensor-based Selective Graph Exploration Strategy for a Team of Quadrotors. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	2.0	2
46	Backstepping and Sliding Mode Control for AUVs Aided with Bioinspired Neurodynamics. , 2021, , .		2
47	Adaptive integral sliding mode controller for longitudinal rotation control of a tilt-rotor aircraft. , 2016, , .		1
48	SURF and image processing techniques applied to an autonomous overhead crane. , 2016, , .		1
49	A framework for autonomous and continuous aerial intelligence, surveillance, and reconnaissance operations. Proceedings of SPIE, 2016, , .	0.8	1
50	Application of Nonlinear Estimation Strategies on a Magnetorheological Suspension System with Skyhook Control. , 2020, , .		1
51	Assessing the Impact of Alternative Responses to COVID-19: Stopping the Spread in Newfoundland and Labrador, Canada. Canadian Journal of Electrical and Computer Engineering, 2021, 44, 238-245.	1.5	1
52	Permutationally Invariant Deep Learning Approach to Molecular Fingerprinting with Application to Compound Mixtures. Journal of Chemical Information and Modeling, 2021, 61, 631-640.	2.5	1
53	Design, Development, and Testing of a Low-Concentration Vanadium Redox Flow Battery. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	1
54	Filtering Strategies for State Estimation of Omniwheel Robots. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	A hybrid intelligent busbar protection strategy using hyperbolic Sâ€ transforms and extreme learning machines. Engineering Reports, 0, , e12438.	0.9	0
56	Influence of Opening Up Daycare and Day Camps on Resurgence Potential of COVID-19 Pandemic: Assessing Infectivity Potential From Youth in Ontario, Canada. IEEE Transactions on Computational Social Systems, 2021, 8, 1052-1060.	3.2	0
57	Nonlinear Estimation Strategies Applied on an RRR Robotic Manipulator. Proceedings of International Conference on Artificial Life and Robotics, 2017, 22, 342-345.	0.1	0
58	Studying the effect of current on an electric-powered ducted fan using artificial neural networks. , 2019, , .		0