

Stephen A Gadsden

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8975937/publications.pdf>

Version: 2024-02-01

58
papers

964
citations

516561

16
h-index

477173

29
g-index

59
all docs

59
docs citations

59
times ranked

659
citing authors

#	ARTICLE	IF	CITATIONS
1	A Shrinking Horizon Model Predictive Controller for Daily Scheduling of Home Energy Management Systems. IEEE Access, 2022, 10, 29716-29730.	2.6	12
2	The irradiance instrument subsystem (IRIS) on the airborne-lunar spectral irradiance (air-LUSI) instrument. Measurement Science and Technology, 2022, 33, 065021.	1.4	3
3	Health Monitoring of Lithium-Ion Batteries Using Dual Filters. Energies, 2022, 15, 2230.	1.6	12
4	The smooth variable structure filter: A comprehensive review. , 2021, 110, 102912.		21
5	A Novel Multiple-Model Adaptive Kalman Filter for an Unknown Measurement Loss Probability. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	18
6	Explicit Nonlinear MPC for Fault Tolerance Using Interacting Multiple Models. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2784-2794.	2.6	11
7	Lattice Kalman Filters. IEEE Signal Processing Letters, 2021, 28, 1355-1359.	2.1	15
8	An Adaptive Formulation of the Sliding Innovation Filter. IEEE Signal Processing Letters, 2021, 28, 1295-1299.	2.1	13
9	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
10	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
11	A greedy non-hierarchical grey wolf optimizer for real-world optimization. Electronics Letters, 2021, 57, 499-501.	0.5	17
12	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
13	IoT-Based Smart Home Device Monitor Using Private Blockchain Technology and Localization. IEEE Networking Letters, 2021, 3, 52-55.	1.5	20
14	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
15	Wild Geese Algorithm: A novel algorithm for large scale optimization based on the natural life and death of wild geese. Array, 2021, 11, 100074.	2.5	23
16	LED Reliability Assessment Using a Novel Monte Carlo-Based Algorithm. IEEE Transactions on Device and Materials Reliability, 2021, 21, 338-347.	1.5	5
17	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
18	Parameter estimation of PV solar cells and modules using Whippy Harris Hawks Optimization Algorithm. Energy Reports, 2021, 7, 4047-4063.	2.5	67

#	ARTICLE	IF	CITATIONS
19	Backstepping and Sliding Mode Control for AUVs Aided with Bioinspired Neurodynamics. , 2021, , .		2
20	Design, Development, and Testing of a Low-Concentration Vanadium Redox Flow Battery. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	1
21	Optimal Power Flow via Teaching-Learning-Studying-Based Optimization Algorithm. Electric Power Components and Systems, 2021, 49, 584-601.	1.0	25
22	Air-LUSI: Development of a pointing and tracking control system for lunar spectral measurements. Acta Astronautica, 2020, 176, 558-566.	1.7	5
23	Enhanced Bioinspired Backstepping Control for a Mobile Robot With Unscented Kalman Filter. IEEE Access, 2020, 8, 125899-125908.	2.6	15
24	A Study of the COVID-19 Impacts on the Canadian Population. IEEE Access, 2020, 8, 128240-128249.	2.6	14
25	Application of Nonlinear Estimation Strategies on a Magnetorheological Suspension System with Skyhook Control. , 2020, , .		1
26	A Study of Variable Structure and Sliding Mode Filters for Robust Estimation of Mechatronic Systems. , 2020, , .		4
27	Filtering Strategies for State Estimation of Omniwheel Robots. , 2020, , .		0
28	The Sliding Innovation Filter. IEEE Access, 2020, 8, 96129-96138.	2.6	24
29	Air-LUSI: A robotic telescope design for lunar spectral measurements. Advances in Space Research, 2020, 65, 2315-2323.	1.2	3
30	A Comprehensive Survey of Control Strategies for Autonomous Quadrotors. Canadian Journal of Electrical and Computer Engineering, 2020, 43, 3-16.	1.5	60
31	Comparison of nonlinear filtering techniques for photonic systems with blackbody radiation. Applied Optics, 2020, 59, 9303.	0.9	4
32	A novel hyperspectral line-scan imaging method for whole surfaces of round shaped agricultural products. Biosystems Engineering, 2019, 188, 57-66.	1.9	13
33	Combined Quaternion-Based Error State Kalman Filtering and Smooth Variable Structure Filtering for Robust Attitude Estimation. IEEE Access, 2019, 7, 148989-149004.	2.6	27
34	An overview of autonomous crop row navigation strategies for unmanned ground vehicles. Engineering in Agriculture, Environment and Food, 2019, 12, 24-31.	0.2	48
35	A nonlinear second-order filtering strategy for state estimation of uncertain systems. Signal Processing, 2019, 155, 182-192.	2.1	17
36	Studying the effect of current on an electric-powered ducted fan using artificial neural networks. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	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
38	Air-LUSI: Estimation, Filtering, and PID Tracking Simulation. , 2018, , .		2
39	Mobile Robot Motion Tracking Using Descriptor Matching and Sensor Fusion. , 2018, , .		2
40	Gaussian filters for parameter and state estimation: A general review of theory and recent trends. Signal Processing, 2017, 135, 218-238.	2.1	139
41	Advances of the smooth variable structure filter: square-root and two-pass formulations. Journal of Applied Remote Sensing, 2017, 11, 015018.	0.6	17
42	A cooperative exploration strategy with efficient backtracking for mobile robots. , 2017, , .		7
43	Quadrature Kalman filters with applications to robotic manipulators. , 2017, , .		6
44	An Adaptive PID Controller Based on Bayesian Theory. , 2017, , .		9
45	Automated Cart with VIS/NIR Hyperspectral Reflectance and Fluorescence Imaging Capabilities. Applied Sciences (Switzerland), 2017, 7, 3.	1.3	15
46	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
47	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
48	Adaptive integral sliding mode controller for longitudinal rotation control of a tilt-rotor aircraft. , 2016, , .		1
49	SURF and image processing techniques applied to an autonomous overhead crane. , 2016, , .		1
50	A framework for autonomous and continuous aerial intelligence, surveillance, and reconnaissance operations. Proceedings of SPIE, 2016, , .	0.8	1
51	Comparison of gradient methods for gain tuning of a PD controller applied on a quadrotor system. Proceedings of SPIE, 2016, , .	0.8	6
52	Artificial neural network training utilizing the smooth variable structure filter estimation strategy. Neural Computing and Applications, 2016, 27, 537-548.	3.2	19
53	A comparison of vibration control strategies for a flexible-link robot arm. , 2015, , .		2
54	System and mathematical modeling of quadrotor dynamics. Proceedings of SPIE, 2015, , .	0.8	6

#	ARTICLE	IF	CITATIONS
55	Combined cubature Kalman and smooth variable structure filtering: A robust nonlinear estimation strategy. Signal Processing, 2014, 96, 290-299.	2.1	64
56	Novel Model-Based Estimators for the Purposes of Fault Detection and Diagnosis. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1237-1249.	3.7	77
57	Kalman filtering strategies utilizing the chattering effects of the smooth variable structure filter. Signal Processing, 2013, 93, 420-431.	2.1	54
58	A hybrid intelligent busbar protection strategy using hyperbolic Sâ€ transforms and extreme learning machines. Engineering Reports, 0, , e12438.	0.9	0