

M Alshabi

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

728
citations

687363

13
h-index

610901

24
g-index

70
all docs

70
docs citations

70
times ranked

497
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of geothermal organic Rankine Cycle for electricity production. Journal of Cleaner Production, 2020, 274, 122950.	9.3	118
2	A critical review of biogas production and usage with legislations framework across the globe. International Journal of Environmental Science and Technology, 2022, 19, 3377-3400.	3.5	109
3	Combined cubature Kalman and smooth variable structure filtering: A robust nonlinear estimation strategy. Signal Processing, 2014, 96, 290-299.	3.7	64
4	Kalman filtering strategies utilizing the chattering effects of the smooth variable structure filter. Signal Processing, 2013, 93, 420-431.	3.7	54
5	Robust Active Disturbance Rejection Control For Flexible Link Manipulator. Robotica, 2020, 38, 118-135.	1.9	34
6	The Sliding Innovation Filter. IEEE Access, 2020, 8, 96129-96138.	4.2	24
7	Recursive Smooth Variable Structure Filter for Estimation Processes in Direct Power Control Scheme Under Balanced and Unbalanced Power Grid. IEEE Systems Journal, 2020, 14, 971-982.	4.6	22
8	The smooth variable structure filter: A comprehensive review. , 2021, 110, 102912.		21
9	Unmanned Aerial Vehicles parameter estimation using Artificial Neural Networks and Iterative Bi-Section Shooting method. Applied Soft Computing Journal, 2015, 36, 457-467.	7.2	19
10	A Hybrid Estimation-Based Technique for Partial Discharge Localization. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8744-8753.	4.7	17
11	Space cooling using geothermal single-effect water/lithium bromide absorption chiller. Energy Science and Engineering, 2021, 9, 1747-1760.	4.0	17
12	Multi-group grey wolf optimizer (MG-GWO) for estimating photovoltaic solar cell model. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1655-1670.	3.6	15
13	Lattice Kalman Filters. IEEE Signal Processing Letters, 2021, 28, 1355-1359.	3.6	15
14	An Adaptive Formulation of the Sliding Innovation Filter. IEEE Signal Processing Letters, 2021, 28, 1295-1299.	3.6	13
15	Health Monitoring of Lithium-Ion Batteries Using Dual Filters. Energies, 2022, 15, 2230.	3.1	12
16	The Unscented Smooth Variable Structure Filter Application Into a Robotic Arm. , 2014, , .		11
17	The sigma-point central difference smooth variable structure filter application into a robotic arm. , 2015, , .		10
18	Sigma-point Smooth Variable Structure Filters applications into robotic arm. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
19	Operation of Parallel Inverters in Microgrid Using New Adaptive PI Controllers Based on Least Mean Fourth Technique. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-19.	1.1	8
20	A Variable Structure-Based Estimation Strategy Applied to an RRR Robot System. <i>Journal of Robotics, Networking and Artificial Life</i> , 2017, 4, 142.	0.4	8
21	ROBUST NONLINEAR CONTROL AND ESTIMATION OF A PRRR ROBOT SYSTEM. <i>International Journal of Robotics and Automation</i> , 2019, 34, .	0.1	8
22	A fuzzy-smooth variable structure filtering strategy: For state and parameter estimation. , 2013, , .		7
23	Dynamic Model and Motion Control of a Robotic Manipulator. <i>Journal of Robotics, Networking and Artificial Life</i> , 2017, 4, 138.	0.4	7
24	Sleep Apnea Detection Based on ECG Signals Using Discrete Wavelet Transform and Artificial Neural Network. , 2022, , .		7
25	Smooth Variable Structure Filter for pneumatic system identification. , 2011, , .		6
26	UAV dynamics model parameters estimation techniques: A comparison study. , 2013, , .		6
27	Quadrature Kalman filters with applications to robotic manipulators. , 2017, , .		6
28	Square-root formulation of the SVSF with applications to nonlinear target tracking problems. <i>Proceedings of SPIE</i> , 2015, , .	0.8	5
29	Effects of environmental and turbine parameters on energy gains from wind farm system: Artificial neural network simulations. <i>Wind Engineering</i> , 2020, 44, 181-195.	1.9	5
30	Dynamic Modeling and Motion Control of a Three-Link Robotic Manipulator. <i>Proceedings of International Conference on Artificial Life and Robotics</i> , 2017, 22, 380-383.	0.1	5
31	New novel time-varying and robust smoothing boundary layer width for the smooth variable structure filter. , 2013, , .		4
32	A Study of Variable Structure and Sliding Mode Filters for Robust Estimation of Mechatronic Systems. , 2020, , .		4
33	Artificial Intelligence applications in renewable energy systems. , 2021, , 251-295.		4
34	Medical kit: emergency drone. , 2020, , .		4
35	Hybrid artificial genetic “neural network model to predict the transmission of vibration to the head during whole-body vibration training. <i>Journal of Vibroengineering</i> , 2020, 22, 705-720.	1.0	4
36	Comparison of nonlinear filtering techniques for photonic systems with blackbody radiation. <i>Applied Optics</i> , 2020, 59, 9303.	1.8	4

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37	Application of SMC and NLFC Into a PRRR Robotic Arm. , 2014, , .		3
38	Two-pass smoother based on the SVSF estimation strategy. , 2015, , .		3
39	An Extended Thermosyphon Cooling System for APR-1400 Reactor Design. Case Studies in Thermal Engineering, 2021, 25, 100894.	5.7	3
40	Improved Asymmetric Time-varying Coefficients of Particle Swarm Optimization. , 2020, , .		3
41	Applying image processing techniques on a ball collecting robot. , 2014, , .		2
42	A comparison of vibration control strategies for a flexible-link robot arm. , 2015, , .		2
43	The cubature smooth variable structure filter estimation strategy applied to a quadrotor controller. , 2015, , .		2
44	Mobile for Health: A Digital Intervention to Reduce Smoking in the United Arab Emirates. , 2020, , .		2
45	Quasi-Continuous Second Order Sliding Mode Control of Revolute-Revolute Manipulator with Noisy Feedback Signals & Modelling Uncertainties. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	3.4	2
46	Geothermal energy use in seawater desalination. , 2020, , .		2
47	Hybrid drone powered by combined gasoline and electric motors. , 2020, , .		2
48	Detection of Epileptic Seizure using Discrete Wavelet Transform on Gamma band and Artificial Neural Network. , 2021, , .		2
49	Applying Reverse Engineering and its techniques on a remote controlled toy helicopter. , 2014, , .		1
50	PLC advanced course for postgraduate students. , 2015, , .		1
51	An improved K-means clustering algorithm for two half-moon classification. , 2015, , .		1
52	Evolutionary low-cost visual shooting practice system. , 2015, , .		1
53	SURF and image processing techniques applied to an autonomous overhead crane. , 2016, , .		1
54	A comprehensive comparison of sigma-point Kalman filters applied on a complex maneuvering road. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
55	Intelligent estimation strategies applied to a flight surface actuator. , 2017, , .		1
56	A benchmark and real-time estimator for the passenger arrival rate to elevator system. Building Services Engineering Research and Technology, 2019, 40, 135-150.	1.8	1
57	Application of Nonlinear Estimation Strategies on a Magnetorheological Suspension System with Skyhook Control. , 2020, , .		1
58	Thermal analysis of end pumped fiber lasers subjected to jacket fluid cooling. Thermal Science, 2021, 25, 1023-1031.	1.1	1
59	Artificial Neural Network based Particle Swarm Optimization solution approach for the inverse depletion of used nuclear fuel. Annals of Nuclear Energy, 2021, 157, 108256.	1.8	1
60	Active Control of a Piezoelectric Actuated Four-Bar Mechanism Deployed in Robotics Applications. Intelligent Automation and Soft Computing, 2018, 24, 443-458.	2.1	1
61	Scanning electron microscope fine tuning using four-bar piezoelectric actuated mechanism. Journal of Electrical Engineering, 2018, 69, 24-31.	0.7	1
62	Drone based technologies for assessing modern farming practices in undergraduate research. , 2019, , .		1
63	Implementing a dynamometer system on electric motors for unmanned systems. , 2016, , .		0
64	Mobile Technology to Improve Physical Activity Among School-Aged Children in the United Arab Emirates. , 2020, , .		0
65	EmCARE Applications in Managing the Emotional Skills of Children and Adolescents in the United Arab Emirates. , 2020, , .		0
66	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
67	Studying the effect of current on an electric-powered ducted fan using artificial neural networks. , 2019, , .		0
68	Studying the effect of temperature on an electric-powered ducted fan using artificial neural networks. , 2019, , .		0
69	Desalination as an energy storage alternative for nuclear power plants: Barakah power plant as a case study. , 2020, , .		0
70	Analysis of hybrid geo-solar power plant. , 2020, , .		0