Suiyang Khoo

List of Publications by Year
in descending order

68 papers	3,231 citations	257450 24 h-index	214800 47 g-index
68 all docs	68 docs citations	68 times ranked	2832 citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Finite-Time Consensus Tracking Algorithm for Multirobot Systems. IEEE/ASME Transactions on Mechatronics, 2009, 14, 219-228.	5.8	735
2	Finite-time stability and instability of stochastic nonlinear systems. Automatica, 2011, 47, 2671-2677.	5.0	394
3	Finite-time stabilization of stochastic nonlinear systems in strict-feedback form. Automatica, 2013, 49, 1403-1410.	5.0	259
4	Evolution of 3D printed soft actuators. Sensors and Actuators A: Physical, 2016, 250, 258-272.	4.1	232
5	Soil Bulk Density Estimation Methods: A Review. Pedosphere, 2018, 28, 581-596.	4.0	193
6	Multi-surface sliding control for fast finite-time leader-follower consensus with high order SISO uncertain nonlinear agents. International Journal of Robust and Nonlinear Control, 2014, 24, 2388-2404.	3.7	133
7	Continuous finite-time state feedback stabilizers for some nonlinear stochastic systems. International Journal of Robust and Nonlinear Control, 2015, 25, 1581-1600.	3.7	84
8	Pattern-driven 4D printing. Sensors and Actuators A: Physical, 2018, 274, 231-243.	4.1	81
9	Adaptive cruise control of a HEV using sliding mode control. Expert Systems With Applications, 2014, 41, 607-615.	7.6	80
10	Generalized Lyapunov criteria on finite-time stability of stochastic nonlinear systems. Automatica, 2019, 107, 183-189.	5.0	78
11	Global finite-time stabilisation for a class of stochastic nonlinear systems by output feedback. International Journal of Control, 2015, 88, 494-506.	1.9	66
12	Development and analysis of a 3D printed hydrogel soft actuator. Sensors and Actuators A: Physical, 2017, 265, 94-101.	4.1	62
13	Robust control of continuum robots using Cosserat rod theory. Mechanism and Machine Theory, 2019, 131, 48-61.	4.5	62
14	DSP-Based Sliding-Mode Control for Electromagnetic-Levitation Precise-Position System. IEEE Transactions on Industrial Informatics, 2013, 9, 817-827.	11.3	57
15	Variable step-size LMS algorithm with a quotient form. Signal Processing, 2009, 89, 67-76.	3.7	53
16	Finite-time stability theorems of homogeneous stochastic nonlinear systems. Systems and Control Letters, 2017, 100, 6-13.	2.3	52
17	Intelligent control strategy in the islanded network of a solar PV microgrid. Electric Power Systems Research, 2018, 155, 93-103.	3.6	44
18	Robust finite-time tracking control of nonholonomic mobile robots without velocity measurements. International Journal of Control, 2016, 89, 411-423.	1.9	41

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19	Robust Single-Hidden Layer Feedforward Network-Based Pattern Classifier. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1974-1986.	11.3	39
20	A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6096-6110.	9.3	36
21	An optimal weight learning machine for handwritten digit image recognition. Signal Processing, 2013, 93, 1624-1638.	3.7	31
22	Stability and Convergence Analysis of Transform-Domain LMS Adaptive Filters With Second-Order Autoregressive Process. IEEE Transactions on Signal Processing, 2009, 57, 119-130.	5.3	29
23	Statistical modeling of gear vibration signals and its application to detecting and diagnosing gear faults. Information Sciences, 2014, 259, 295-303.	6.9	28
24	Optimal sinusoidal modelling of gear mesh vibration signals for gear diagnosis and prognosis. Mechanical Systems and Signal Processing, 2012, 33, 256-274.	8.0	27
25	Comments on â€œAdaptive multiple-surface sliding control for non-autonomous systems with mismatched uncertaintiesâ€. Automatica, 2008, 44, 2995-2998.	5.0	21
26	Comments on â€œFinite-time stability theorem of stochastic nonlinear systemsâ€[Automatica 46 (2010) 2105â€"2108]. Automatica, 2011, 47, 1542-1543.	5.0	20
27	Some properties of finite-time stable stochastic nonlinear systems. Applied Mathematics and Computation, 2015, 259, 686-697.	2.2	20
28	Robust Hâˆž cost guaranteed integral sliding mode control for the synchronization problem of nonlinear tele-operation system with variable time-delay. ISA Transactions, 2018, 72, 25-36.	5.7	20
29	Probability distribution of decay rate: a statistical time-domain damping parameter for structural damage identification. Structural Health Monitoring, 2019, 18, 66-86.	7.5	20
30	Energy trading among electric vehicles based on Stackelberg approaches: A review. Sustainable Cities and Society, 2021, 75, 103199.	10.4	18
31	Adaptive fuzzy multiâ€surface sliding control of multipleâ€input and multipleâ€output autonomous flight systems. IET Control Theory and Applications, 2015, 9, 587-597.	2.1	17
32	Multi-surface sliding mode control of continuum robots with mismatched uncertainties. Meccanica, 2019, 54, 2307-2316.	2.0	17
33	Sliding mode-like learning control for SISO complex systems with T-S fuzzy models. International Journal of Modelling, Identification and Control, 2012, 16, 317.	0.2	15
34	Fast finite-time consensus of a class of high-order uncertain nonlinear systems. , 2010, , .		14
35	New Lyapunov conditions of stochastic finite-time stability and instability of nonlinear time-varying SDEs. International Journal of Control, 2021, 94, 1674-1681.	1.9	14
36	Finite-time consensus algorithm of multi-agent networks. , 2008, , .		13

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37	Modeling and analysis of gear tooth crack growth under variable-amplitude loading. Mechanical Systems and Signal Processing, 2013, 40, 105-113.	8.0	12
38	FEM Calibrated ARMAX Model Updating Method for Time Domain Damage Identification. Advances in Structural Engineering, 2013, 16, 51-60.	2.4	12
39	A new sliding mode-based learning control scheme. , 2011, , .		11
40	New Variable Step-Sizes Minimizing Mean-Square Deviation for the LMS-Type Algorithms. Circuits, Systems, and Signal Processing, 2014, 33, 2251-2265.	2.0	11
41	Observer-based robust finite-time cooperative consensus control for multi-agent networks. , 2009, , .		9
42	Modified DSC Propulsion Systems for Efficient Direct Recovery of Regeneration in 25-kV AC Traction Power Supply. IEEE Transactions on Transportation Electrification, 2017, 3, 632-645.	7.8	8
43	A generalized data windowing scheme for adaptive conjugate gradient algorithms. Signal Processing, 2009, 89, 894-900.	3.7	7
44	A finite-time stability theorem of stochastic nonlinear systems and stabilization designs. , 2011, , .		6
45	Modelling and simulation of regeneration in AC traction propulsion system of electrified railway. IET Electrical Systems in Transportation, 2015, 5, 145-155.	2.4	6
46	Leader-follower consensus control of a class of nonholonomic systems. , 2010, , .		5
47	Robust control of novel thrust vectored 3D printed multicopter. , 2017, , .		5
48	Robust Control of Tendon Driven Continuum Robots. , 2018, , .		5
49	A New Design of Sliding Mode Control Systems. Lecture Notes in Control and Information Sciences, 2011, , 151-167.	1.0	5
50	Frequency-domain beamformers using conjugate gradient techniques for speech enhancement. Journal of the Acoustical Society of America, 2014, 136, 1160-1175.	1.1	4
51	The Performance of the DES Sensor for Estimating Soil Bulk Density under the Effect of Different Agronomic Practices. Geosciences (Switzerland), 2020, 10, 117.	2.2	4
52	Domain recurrence and probabilistic analysis of residence time of stochastic systems and domain aiming control. International Journal of Robust and Nonlinear Control, 2020, 30, 6585-6605.	3.7	3
53	Adaptive fast finite-time multiple-surface sliding control for a class of uncertain non-linear systems. International Journal of Modelling, Identification and Control, 2012, 16, 392.	0.2	2
54	Adaptive finite-time stabilization of a class of stochastic nonlinear systems. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
55	Adaptive Neural Network Based Sliding Mode Control of Continuum Robots with Mismatched Uncertainties. , 2021, , .		2
56	A Probabilistic Model for Minimization of Solar Energy Operation Costs as Well as CO_2 Emissions in a Multi-Carrier Microgrid (MCMG). Energies, 2022, 15, 3088.	3.1	2
57	A class of modified variable step-size NLMS algorithms for system identification. , 2009, , .		1
58	Adaptive data based neural network leader-follower control of multi-agent networks. , 2011, , .		1
59	Terminal sliding mode control strategy design for second-order nonlinear system. , 2012, , .		1
60	Stochastic Systems 2013. Mathematical Problems in Engineering, 2013, 2013, 1-2.	1.1	1
61	Finite-time stability of stochastic nonlinear systems with Markovian switching. , 2017, , .		1
62	Exact-estimator-based terminal sliding mode control system design. , 2013, , .		0
63	The oscillation behaviors in Euler discretized terminal sliding mode control sytems. , 2013, , .		0
64	Backstepping-based current and voltage control strategy for maglev position device. , 2013, , .		0
65	A variable step-size transform-domain LMS algorithm based on minimum mean-square deviation for autoregressive process. , 2013, , .		0
66	Multi-surface sliding control of MIMO autonomous flight systems. , 2014, , .		0
67	Stochastic Systems 2014. Mathematical Problems in Engineering, 2015, 2015, 1-3.	1.1	0
68	Multi-surface sliding control of MIMO autonomous flight systems. , 2015, , .		0