

Shyam Kamal

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,460
citations

687363

13
h-index

330143

37
g-index

59
all docs

59
docs citations

59
times ranked

1261
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementation of Super-Twisting Control: Super-Twisting and Higher Order Sliding-Mode Observer-Based Approaches. IEEE Transactions on Industrial Electronics, 2016, 63, 3677-3685.	7.9	394
2	Continuous terminal sliding-mode controller. Automatica, 2016, 69, 308-314.	5.0	164
3	Multilayer Hybrid Deep-Learning Method for Waste Classification and Recycling. Computational Intelligence and Neuroscience, 2018, 2018, 1-9.	1.7	145
4	Design of controllers with arbitrary convergence time. Automatica, 2020, 112, 108710.	5.0	133
5	A New Algorithm for Continuous Sliding Mode Control With Implementation to Industrial Emulator Setup. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2194-2204.	5.8	85
6	Fault tolerant control allocation via continuous integral sliding-modes: A HOSM-Observer approach. Automatica, 2015, 51, 318-325.	5.0	84
7	Implicit-Euler Implementation of Super-Twisting Observer and Twisting Controller for Second-Order Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2607-2611.	3.0	33
8	Free-Will Arbitrary Time Consensus for Multiagent Systems. IEEE Transactions on Cybernetics, 2022, 52, 4636-4646.	9.5	31
9	A New Hill Climbing Maximum Power Tracking Control for Wind Turbines With Inertial Effect Compensation. IEEE Transactions on Industrial Electronics, 2019, 66, 8545-8556.	7.9	29
10	Load voltage-based MPPT technique for standalone PV systems using adaptive step. International Journal of Electrical Power and Energy Systems, 2021, 128, 106732.	5.5	26
11	Adaptive gains of dual level to super-twisting algorithm for sliding mode design. IET Control Theory and Applications, 2018, 12, 2347-2356.	2.1	19
12	Free-will Arbitrary Time Terminal Sliding Mode Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2024, , 1-1.	3.0	19
13	Higher Order Sliding Mode Control-Based Finite-Time Constrained Stabilization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 295-299.	3.0	17
14	Adaptive gains to super-twisting technique for sliding mode design. Asian Journal of Control, 2021, 23, 362-373.	3.0	17
15	Delayed output feedback sliding mode control for uncertain non-linear systems. IET Control Theory and Applications, 2020, 14, 2106-2115.	2.1	16
16	Robust finite time cooperative control of second order agents:A Multi-input Multi-output higher order super-twisting based approach. ISA Transactions, 2019, 86, 1-8.	5.7	13
17	Sliding mode control of uncertain fractional-order systems: A reaching phase free approach. Asian Journal of Control, 2021, 23, 199-208.	3.0	13
18	Global Stabilization of Uncertain SISO Dynamical Systems Using a Multiple Delayed Partial State Feedback Sliding Mode Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1259-1263.	3.0	12

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19	A $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e123" altimg="si235.gif"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle [K, KL] \langle \text{mml:math} \rangle$ sector based control design for nonlinear system. ISA Transactions, 2019, 89, 77-83.	5.7	11
20	Discrete-time sector based hands-off control for nonlinear system. International Journal of Robust and Nonlinear Control, 2020, 30, 2443-2460.	3.7	11
21	Discrete-Time Super-Twisting Fractional-Order Differentiator With Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1238-1242.	3.0	11
22	A Robustness Consideration in Continuous Time $\mathcal{[K, KL]}$ Sector for Nonlinear System. IEEE Access, 2019, 7, 30628-30636.	4.2	10
23	Arbitrary Time Stabilization of a Coupled Tank System: A Contraction based Approach. , 2020, , .		10
24	L_2 -based static output feedback controller design for a class of polytopic systems with actuator saturation. International Journal of Control, 2022, 95, 2151-2163.	1.9	10
25	A Robust $[K, KL]$ Sector for Nonlinear System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2547-2551.	3.0	9
26	New LMI conditions for H_∞ / H_2 output feedback control of linear discrete-time systems. International Journal of Control, 2021, 94, 1716-1722.	1.9	9
27	A current sensor based adaptive step-size MPPT with SEPIC converter for photovoltaic systems. IET Renewable Power Generation, 2021, 15, 1085-1099.	3.1	9
28	Continuous higher order sliding mode control for a class of uncertain MIMO nonlinear systems: An ISS approach. European Journal of Control, 2018, 41, 1-7.	2.6	7
29	Authors' Reply To: (CI 20-0229) Comments on Design of controllers with arbitrary convergence time [Automatica 108710]. Automatica, 2020, 122, 109194.	5.0	7
30	Adaptive Super-Twisting Guidance Law with Extended State Observer. , 2021, , .		7
31	Free-Will Arbitrary Time Terminal Sliding Mode Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3189-3193.	3.0	7
32	Non-Differentiable Function Tracking. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1835-1839.	3.0	6
33	Implicit Discrete-Time Adaptive First-Order Sliding Mode Control With Predefined Convergence Time. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3562-3566.	3.0	6
34	Implicit Discrete-Time Terminal Sliding Mode Control for Second-Order Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2508-2512.	3.0	6
35	Discrete-Time Adaptive Super-Twisting Observer With Predefined Arbitrary Convergence Time. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2057-2061.	3.0	6
36	Consensus problems in multiagent systems: A vector based contraction approach. IET Control Theory and Applications, 2021, 15, 2195-2209.	2.1	6

#	ARTICLE	IF	CITATIONS
37	Bio-Inspired Learning and Adaptation for Optimization and Control of Complex Systems. Complexity, 2019, 2019, 1-3.	1.6	5
38	Discrete-Time Super-Twisting Observer With Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1288-1292.	3.0	5
39	Neural Network Control based Stabilization of Nonlinear Systems in Arbitrary Time. , 2021, , .		5
40	Discrete-Time Implementation of Super-Twisting Control With Semi-Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 99-103.	3.0	4
41	Arbitrary Time Attitude Stabilization and Tracking of Rigid Body on SO(3). , 2021, , .		4
42	Delayed output feedback based leader-follower and leaderless consensus control of uncertain multiagent systems. IET Control Theory and Applications, 2021, 15, 1956-1970.	2.1	4
43	Sliding mode approach for formation control of perturbed second-order autonomous unmanned systems. IFAC-PapersOnLine, 2021, 54, 168-173.	0.9	4
44	An improved output feedback controller design for linear discrete-time systems using a matrix decomposition method. Asian Journal of Control, 2023, 25, 769-782.	3.0	4
45	Discrete-Time Implementation of Continuous Terminal Algorithm With Implicit-Euler Method. IEEE Access, 2019, 7, 175940-175946.	4.2	3
46	New Decentralised Event-Triggered Consensus Strategy for Single and Double Integrator Multi-Agent Systems. IEEE Access, 2020, 8, 157059-157067.	4.2	3
47	Quantized-feedback hands-off control for nonlinear systems. IET Control Theory and Applications, 2021, 15, 1364-1374.	2.1	3
48	Discrete-Time Super-Twisting Fractional-Order Observer With Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2787-2791.	3.0	3
49	Computation of Impulse-Response Gramian for Interval Systems. IETE Journal of Research, 2019, , 1-15.	2.6	2
50	Controller and Observer design for Chaotic Systems: A Vector Based Contraction Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3282-3286.	3.0	2
51	Nonsmooth PI Controller for Uncertain Systems. IEEE Access, 2020, 8, 124792-124801.	4.2	2
52	Implicit-Euler based digital implementation for constrained stabilization of second-order systems. International Journal of Robust and Nonlinear Control, 2021, 31, 5086-5100.	3.7	2
53	A [K, KL] Sector-Based Hands-Off Control With Quantization Parameter Mismatch. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1407-1411.	3.0	2
54	Higher order sliding mode-based robust stabilisation of fluid-flow model of TCP/AQM scheme. International Journal of Automation and Control, 2014, 8, 17.	0.5	1

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55	Quasi-LPV PI control of TRMS subject to actuator saturation. IET Control Theory and Applications, 2020, 14, 3157-3167.	2.1	1
56	Interval observer design for nonlinear systems using simplified contraction theory. IET Control Theory and Applications, 2022, 16, 935-944.	2.1	1
57	Discrete-Time Multivariable Super-Twisting Algorithm With Semi-Implicit Euler Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4443-4447.	3.0	1
58	Artificial Delayed Output Twisting Algorithm. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1079-1083.	3.0	0