

Yuxin Su

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

739
citations

15
h-index

25
g-index

69
ext. papers

948
ext. citations

3.5
avg, IF

5.01
L-index

#	Paper	IF	Citations
59	Velocity-free Friction compensation for motion systems with actuator constraint. <i>Mechanical Systems and Signal Processing</i> , 2021 , 148, 107132	7.8	6
58	A Simple Unified Control for Output Feedback Finite-Time Stabilization of Uncertain Planar Systems Without Controllable/Observable Linearization. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 326-330	3.5	3
57	Comments on Adaptive Sliding Mode Control for Attitude Stabilization With Actuator Saturation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
56	Proximate Fixed-Time Prescribed Performance Tracking Control of Uncertain Robot Manipulators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-11	5.5	2
55	A new nonsingular integral terminal sliding mode control for robot manipulators. <i>International Journal of Systems Science</i> , 2020 , 51, 1418-1428	2.3	19
54	Fixed-time attitude tracking control for rigid spacecraft. <i>IET Control Theory and Applications</i> , 2020 , 14, 790-799	2.5	14
53	Saturated output feedback control for finite-time attitude stabilization of spacecraft. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 234, 4557-4571	1.3	
52	Fixed-Time Fault-Tolerant Attitude Tracking Control for Rigid Spacecraft. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	2
51	Simple Saturated PID Control for Fast Transient of Motion Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8985-8990		
50	Single saturated PD control for asymptotic attitude stabilisation of spacecraft. <i>IET Control Theory and Applications</i> , 2020 , 14, 3338-3343	2.5	2
49	Globally Asymptotic Output Feedback Tracking of Robot Manipulators With Actuator Constraints. <i>IFAC-PapersOnLine</i> , 2020 , 53, 9930-9935	0.7	
48	Global Fixed-Time Output Feedback Stabilization for a Class of Double Integrator Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 1954-1958	3.5	5
47	Comments on Modular-Controller-Design-Based Fast Terminal Sliding Mode for Articulated Exoskeleton Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1621-1623	4.8	
46	Comments on A New Adaptive Sliding-Mode Control Scheme for Application to Robot Manipulators. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 7116-7120	8.9	3
45	Robust approximate fixed-time tracking control for uncertain robot manipulators. <i>Mechanical Systems and Signal Processing</i> , 2020 , 135, 106379	7.8	33
44	Faster Positioning of One Degree-of-Freedom Mechanical Systems With Friction and Actuator Saturation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	3
43	Fixed-Time Inverse Dynamics Control for Robot Manipulators. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	6

42	A nonsingular fast terminal sliding mode control with an exponential reaching law for robot manipulators. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 1575-1587	1.3	4
41	Global saturated velocity-free finite-time control for attitude tracking of spacecraft. <i>IET Control Theory and Applications</i> , 2019 , 13, 1591-1602	2.5	3
40	Simple saturated relay non-linear PD control for uncertain motion systems with friction and actuator constraint. <i>IET Control Theory and Applications</i> , 2019 , 13, 1920-1928	2.5	4
39	A simple nonlinear PD control for faster and high-precision positioning of servomechanisms with actuator saturation. <i>Mechanical Systems and Signal Processing</i> , 2019 , 121, 215-226	7.8	19
38	A simple non-singular terminal sliding mode control for uncertain robot manipulators. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2019 , 233, 666-676	1	9
37	A New Nonsingular Terminal Sliding Mode Control for Rigid Spacecraft Attitude Tracking. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	25
36	Saturated Output Feedback Control for Global Asymptotic Attitude Tracking of Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2018 , 41, 2300-2307	2.1	4
35	Simple relay non-linear PD control for faster and high-precision motion systems with friction. <i>IET Control Theory and Applications</i> , 2018 , 12, 2302-2308	2.5	5
34	PID control for global finite-time regulation of robotic manipulators. <i>International Journal of Systems Science</i> , 2017 , 48, 547-558	2.3	14
33	Comments on A new terminal sliding mode control for robotic manipulators <i>International Journal of Control</i> , 2017 , 90, 231-238	1.5	6
32	Comments on Tracking Control of Robotic Manipulators With Uncertain Kinematics and Dynamics <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 8187-8189	8.9	3
31	A simple fuzzy controller for robot manipulators with bounded inputs 2017 ,		5
30	Global Finite-Time Stabilization of Planar Linear Systems With Actuator Saturation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017 , 64, 947-951	3.5	28
29	Comments on Attitude stabilization of rigid spacecraft with finite-time convergence <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 1039-1040	3.6	
28	A simple global asymptotic convergent observer for uncertain mechanical systems. <i>International Journal of Systems Science</i> , 2016 , 47, 903-912	2.3	8
27	Unified saturated proportional derivative control framework for asymptotic stabilisation of spacecraft. <i>IET Control Theory and Applications</i> , 2016 , 10, 772-779	2.5	6
26	Comments on Controller design for rigid spacecraft attitude tracking with actuator saturation <i>Information Sciences</i> , 2016 , 342, 150-152	7.7	1
25	Robust finite-time output feedback control of perturbed double integrator. <i>Automatica</i> , 2015 , 60, 86-91	5.7	34

24	Correction to Global Asymptotic Saturated PID Control for Robot Manipulators [Nov 10 1280-1288]. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 412-412	4.8	5
23	Comment on Robust and adaptive variable structure output feedback control of uncertain systems with input nonlinearity [Automatica 44 (2008) 552-559]. <i>Automatica</i> , 2015 , 58, 125-126	5.7	
22	A Repetitive Learning Method Based on Sliding Mode for Robot Control With Actuator Saturation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	3
21	Simple Nonlinear Proportional-Derivative Control for Global Finite-Time Stabilization of Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 173-178	2.1	26
20	Finite-time tracking control for robot manipulators with actuator saturation. <i>Robotics and Computer-Integrated Manufacturing</i> , 2014 , 30, 91-98	9.2	45
19	Velocity-free saturated PD controller for asymptotic stabilization of spacecraft. <i>Aerospace Science and Technology</i> , 2014 , 39, 6-12	4.9	16
18	Globally Asymptotic Stabilization of Spacecraft with Simple Saturated Proportional-Derivative Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2011 , 34, 1932-1936	2.1	57
17	Global finite-time inverse tracking control of robot manipulators. <i>Robotics and Computer-Integrated Manufacturing</i> , 2011 , 27, 550-557	9.2	42
16	A Simple Repetitive Learning Control for Asymptotic Tracking of Robot Manipulators with Actuator Saturation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 6886-6891		2
15	A simple PID control for asymptotic visual regulation of robot manipulators. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 1525-1540	3.6	6
14	PID control of robot manipulators in task space 2010 ,		3
13	Global Asymptotic Saturated PID Control for Robot Manipulators. <i>IEEE Transactions on Control Systems Technology</i> , 2010 ,	4.8	34
12	A simple nonlinear PID control for global finite-time regulation of robot manipulators without velocity measurements 2010 ,		1
11	Global asymptotic stabilization and tracking of wheeled mobile robots with actuator saturation 2010 ,		7
10	Global continuous finite-time tracking of robot manipulators. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 19, 1871-1885	3.6	52
9	A simple nonlinear PID control for finite-time regulation of robot manipulators 2009 ,		1
8	A saturated PD plus scheme for asymptotic tracking of robot manipulators 2009 ,		3
7	A Simple Nonlinear Observer for a Class of Uncertain Mechanical Systems. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1340-1345	5.9	36

6	Global Asymptotic Stability of PID Controller for Robotic Manipulators 2007 ,	2
5	A Global Asymptotic Stable Output Feedback PID Regulator for Robot Manipulators. <i>Proceedings - IEEE International Conference on Robotics and Automation, 2007</i> ,	9
4	Global Stability of a Saturated Nonlinear PID Controller for Robotic Manipulators 2006 ,	5
3	A Simple Linear Velocity Estimator for High-Precision Motion Control 2006 ,	1
2	Integration of saturated PI synchronous control and PD feedback for control of parallel manipulators 2006 , 22, 202-207	103
1	Development of a nonlinear PID controller with saturated function design	2