Yuxin Su

List of Publications by Citations

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	Integration of saturated PI synchronous control and PD feedback for control of parallel manipulators **2006**, 22, 202-207		103
58	Globally Asymptotic Stabilization of Spacecraft with Simple Saturated Proportional-Derivative Control. *Journal of Guidance, Control, and Dynamics*, **2011**, 34, 1932-1936	2.1	57
57	Global continuous finite-time tracking of robot manipulators. *International Journal of Robust and Nonlinear Control*, **2009**, 19, 1871-1885	3.6	52
56	Finite-time tracking control for robot manipulators with actuator saturation. *Robotics and Computer-Integrated Manufacturing*, **2014**, 30, 91-98	9.2	45
55	Global finite-time inverse tracking control of robot manipulators. *Robotics and Computer-Integrated Manufacturing*, **2011**, 27, 550-557	9.2	42
54	A Simple Nonlinear Observer for a Class of Uncertain Mechanical Systems. *IEEE Transactions on Automatic Control*, **2007**, 52, 1340-1345	5.9	36
53	Robust finite-time output feedback control of perturbed double integrator. *Automatica*, **2015**, 60, 86-91	5.7	34
52	Global Asymptotic Saturated PID Control for Robot Manipulators. *IEEE Transactions on Control Systems Technology*, **2010**,	4.8	34
51	Robust approximate fixed-time tracking control for uncertain robot manipulators. *Mechanical Systems and Signal Processing*, **2020**, 135, 106379	7.8	33
50	Global Finite-Time Stabilization of Planar Linear Systems With Actuator Saturation. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2017**, 64, 947-951	3.5	28
49	Simple Nonlinear Proportional-Derivative Control for Global Finite-Time Stabilization of Spacecraft. *Journal of Guidance, Control, and Dynamics*, **2015**, 38, 173-178	2.1	26
48	A New Nonsingular Terminal Sliding Mode Control for Rigid Spacecraft Attitude Tracking. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140,	1.6	25
47	A new nonsingular integral terminal sliding mode control for robot manipulators. *International Journal of Systems Science*, **2020**, 51, 1418-1428	2.3	19
46	A simple nonlinear PD control for faster and high-precision positioning of servomechanisms with actuator saturation. *Mechanical Systems and Signal Processing*, **2019**, 121, 215-226	7.8	19
45	Velocity-free saturated PD controller for asymptotic stabilization of spacecraft. *Aerospace Science and Technology*, **2014**, 39, 6-12	4.9	16
44	PID control for global finite-time regulation of robotic manipulators. *International Journal of Systems Science*, **2017**, 48, 547-558	2.3	14
43	Fixed-time attitude tracking control for rigid spacecraft. *IET Control Theory and Applications*, **2020**, 14, 790-799	2.5	14

42	A Global Asymptotic Stable Output Feedback PID Regulator for Robot Manipulators. *Proceedings - IEEE International Conference on Robotics and Automation*, **2007**,		9
41	A simple non-singular terminal sliding mode control for uncertain robot manipulators. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2019**, 233, 666-676	1	9
40	A simple global asymptotic convergent observer for uncertain mechanical systems. *International Journal of Systems Science*, **2016**, 47, 903-912	2.3	8
39	Global asymptotic stabilization and tracking of wheeled mobile robots with actuator saturation **2010**,		7
38	Comments on A new terminal sliding mode control for robotic manipulators *International Journal of Control*, **2017**, 90, 231-238	1.5	6
37	Fixed-Time Inverse Dynamics Control for Robot Manipulators. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	6
36	A simple PID control for asymptotic visual regulation of robot manipulators. *International Journal of Robust and Nonlinear Control*, **2011**, 21, 1525-1540	3.6	6
35	Unified saturated proportional derivative control framework for asymptotic stabilisation of spacecraft. *IET Control Theory and Applications*, **2016**, 10, 772-779	2.5	6
34	Velocity-free friction compensation for motion systems with actuator constraint. *Mechanical Systems and Signal Processing*, **2021**, 148, 107132	7.8	6
33	A simple fuzzy controller for robot manipulators with bounded inputs **2017**,		5
32	Correction to Global Asymptotic Saturated PID Control for Robot Manipulators [Nov 10 1280-1288]. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 412-412	4.8	5
31	Global Stability of a Saturated Nonlinear PID Controller for Robotic Manipulators **2006**,		5
30	Global Fixed-Time Output Feedback Stabilization for a Class of Double Integrator Systems. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 1954-1958	3.5	5
29	Simple relay non-linear PD control for faster and high-precision motion systems with friction. *IET Control Theory and Applications*, **2018**, 12, 2302-2308	2.5	5
28	Saturated Output Feedback Control for Global Asymptotic Attitude Tracking of Spacecraft. *Journal of Guidance, Control, and Dynamics*, **2018**, 41, 2300-2307	2.1	4
27	A nonsingular fast terminal sliding mode control with an exponential reaching law for robot manipulators. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2019**, 233, 1575-1587	1.3	4
26	Simple saturated relay non-linear PD control for uncertain motion systems with friction and actuator constraint. *IET Control Theory and Applications*, **2019**, 13, 1920-1928	2.5	4
25	Comments on Tracking Control of Robotic Manipulators With Uncertain Kinematics and Dynamics *IEEE Transactions on Industrial Electronics*, **2017**, 64, 8187-8189	8.9	3

24	Faster Positioning of One Degree-of-Freedom Mechanical Systems With Friction and Actuator Saturation. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2019**, 141,	1.6	3
23	Global saturated velocity-free finite-time control for attitude tracking of spacecraft. *IET Control Theory and Applications*, **2019**, 13, 1591-1602	2.5	3
22	A Repetitive Learning Method Based on Sliding Mode for Robot Control With Actuator Saturation. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2015**, 137,	1.6	3
21	PID control of robot manipulators in task space **2010**,		3
20	A saturated PD plus scheme for asymptotic tracking of robot manipulators **2009**,		3
19	Comments on A New Adaptive Sliding-Mode Control Scheme for Application to Robot Manipulators *IEEE Transactions on Industrial Electronics*, **2020**, 67, 7116-7120	8.9	3
18	A Simple Unified Control for Output Feedback Finite-Time Stabilization of Uncertain Planar Systems Without Controllable/Observable Linearization. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 326-330	3.5	3
17	A Simple Repetitive Learning Control for Asymptotic Tracking of Robot Manipulators with Actuator Saturation. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 6886-6891		2
16	Global Asymptotic Stability of PID Controller for Robotic Manipulators **2007**,		2
15	Development of a nonlinear PID controller with saturated function design		2
14	Fixed-Time Fault-Tolerant Attitude Tracking Control for Rigid Spacecraft. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2020**, 142,	1.6	2
13	Single saturated PD control for asymptotic attitude stabilisation of spacecraft. *IET Control Theory and Applications*, **2020**, 14, 3338-3343	2.5	2
12	Proximate Fixed-Time Prescribed Performance Tracking Control of Uncertain Robot Manipulators. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-11	5.5	2
11	A simple nonlinear PID control for global finite-time regulation of robot manipulators without velocity measurements **2010**,		1
10	A simple nonlinear PID control for finite-time regulation of robot manipulators **2009**,		1
9	A Simple Linear Velocity Estimator for High-Precision Motion Control **2006**,		1
8	Comments on Controller design for rigid spacecraft attitude tracking with actuator saturation *Information Sciences*, **2016**, 342, 150-152	7.7	1
7	Comments on Adaptive Sliding Mode Control for Attitude Stabilization With Actuator Saturation. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	1

List of Publications

6	Saturated output feedback control for finite-time attitude stabilization of spacecraft. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2020**, 234, 4557-4571	1.3
5	Comments on "Attitude stabilization of rigid spacecraft with finite-time convergence". *International Journal of Robust and Nonlinear Control*, **2017**, 27, 1039-1040	3.6
4	Comment on "Robust and adaptive variable structure output feedback control of uncertain systems with input nonlinearity" [Automatica 44 (2008) 552–559]. *Automatica*, **2015**, 58, 125-126	5.7
3	Simple Saturated PID Control for Fast Transient of Motion Systems. *IFAC-PapersOnLine*, **2020**, 53, 8985-8990	3.7
2	Globally Asymptotic Output Feedback Tracking of Robot Manipulators With Actuator Constraints. *IFAC-PapersOnLine*, **2020**, 53, 9930-9935	0.7
1	Comments on "Modular-Controller-Design-Based Fast Terminal Sliding Mode for Articulated Exoskeleton Systems". *IEEE Transactions on Control Systems Technology*, **2020**, 28, 1621-1623	4.8