Yuxin Su

List of Publications by Year
in descending order

68 papers	1,141 citations	471061 17 h-index	454577 30 g-index
69 all docs	69 docs citations	69 times ranked	807 citing authors

#	Article	IF	Citations
1	Integration of saturated PI synchronous control and PD feedback for control of parallel manipulators. , 2006, 22, 202-207.		134
2	Robust approximate fixed-time tracking control for uncertain robot manipulators. Mechanical Systems and Signal Processing, 2020, 135, 106379.	4.4	76
3	Globally Asymptotic Stabilization of Spacecraft with Simple Saturated Proportional-Derivative Control. Journal of Guidance, Control, and Dynamics, 2011, 34, 1932-1936.	1.6	72
4	Global continuous finite-time tracking of robot manipulators. International Journal of Robust and Nonlinear Control, 2009, 19, 1871-1885.	2.1	64
5	Finite-time tracking control for robot manipulators with actuator saturation. Robotics and Computer-Integrated Manufacturing, 2014, 30, 91-98.	6.1	56
6	Global Asymptotic Saturated PID Control for Robot Manipulators. IEEE Transactions on Control Systems Technology, 2010, , .	3.2	54
7	Global finite-time inverse tracking control of robot manipulators. Robotics and Computer-Integrated Manufacturing, 2011, 27, 550-557.	6.1	51
8	A Simple Nonlinear Observer for a Class of Uncertain Mechanical Systems. IEEE Transactions on Automatic Control, 2007, 52, 1340-1345.	3.6	47
9	A new nonsingular integral terminal sliding mode control for robot manipulators. International Journal of Systems Science, 2020, 51, 1418-1428.	3.7	42
10	Robust finite-time output feedback control of perturbed double integrator. Automatica, 2015, 60, 86-91.	3.0	41
11	Simple Nonlinear Proportional-Derivative Control for Global Finite-Time Stabilization of Spacecraft. Journal of Guidance, Control, and Dynamics, 2015, 38, 173-178.	1.6	39
12	Global Finite-Time Stabilization of Planar Linear Systems With Actuator Saturation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 947-951.	2.2	36
13	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, .	0.9	36
14	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.	4.4	32
15	Proximate Fixed-Time Prescribed Performance Tracking Control of Uncertain Robot Manipulators. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3275-3285.	3.7	31
16	Fixed-time attitude tracking control for rigid spacecraft. IET Control Theory and Applications, 2020, 14, 790-799.	1.2	26
17	PID control for global finite-time regulation of robotic manipulators. International Journal of Systems Science, 2017, 48, 547-558.	3.7	23
18	Velocity-free saturated PD controller for asymptotic stabilization of spacecraft. Aerospace Science and Technology, 2014, 39, 6-12.	2.5	21

#	Article	IF	Citations
19	A Global Asymptotic Stable Output Feedback PID Regulator for Robot Manipulators. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	16
20	Fixed-Time Inverse Dynamics Control for Robot Manipulators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	14
21	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, .	0.9	12
22	Velocity-free friction compensation for motion systems with actuator constraint. Mechanical Systems and Signal Processing, 2021, 148, 107132.	4.4	12
23	A simple PID control for asymptotic visual regulation of robot manipulators. International Journal of Robust and Nonlinear Control, 2011, 21, 1525-1540.	2.1	11
24	Simple relay nonâ€linear PD control for faster and highâ€precision motion systems with friction. IET Control Theory and Applications, 2018, 12, 2302-2308.	1.2	11
25	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.	0.7	11
26	Unified saturated proportional derivative control framework for asymptotic stabilisation of spacecraft. IET Control Theory and Applications, 2016, 10, 772-779.	1.2	10
27	Saturated Output Feedback Control for Global Asymptotic Attitude Tracking of Spacecraft. Journal of Guidance, Control, and Dynamics, 2018, 41, 2300-2307.	1.6	9
28	Comments on â€œA New Adaptive Sliding-Mode Control Scheme for Application to Robot Manipratorsâ€. IEEE Transactions on Industrial Electronics, 2020, 67, 7116-7120.	5.2	9
29	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.	2.2	9
30	Fixed-Time Fault-Tolerant Attitude Tracking Control for Rigid Spacecraft. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	9
31	A simple global asymptotic convergent observer for uncertain mechanical systems. International Journal of Systems Science, 2016, 47, 903-912.	3.7	8
32	Simple saturated relay nonâ€linear PD control for uncertain motion systems with friction and actuator constraint. IET Control Theory and Applications, 2019, 13, 1920-1928.	1.2	8
33	Global asymptotic stabilization and tracking of wheeled mobile robots with actuator saturation. , 2010, , .		7
34	Comments on â€˜A new terminal sliding mode control for robotic manipulatorsâ€™. International Journal of Control, 2017, 90, 231-238.	1.2	7
35	Single saturated PD control for asymptotic attitude stabilisation of spacecraft. IET Control Theory and Applications, 2020, 14, 3338-3343.	1.2	7
36	A simple fuzzy controller for robot manipulators with bounded inputs. , 2017, , .		6

#	Article	IF	Citations
37	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.	2.2	6
38	Global Stability of a Saturated Nonlinear PID Controller for Robotic Manipulators. , 2006, , .		5
39	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, .	0.9	5
40	Correction to â€œGlobal Asymptotic Saturated PID Control for Robot Manipulatorsâ€•[Nov 10 1280-1288]. IEEE Transactions on Control Systems Technology, 2015, 23, 412-412.	3.2	5
41	Global saturated velocityâ€free finiteâ€time control for attitude tracking of spacecraft. IET Control Theory and Applications, 2019, 13, 1591-1602.	1.2	5
42	Global finiteâ€time stabilization of a class of perturbed planar systems with actuator saturation and disturbances. Asian Journal of Control, 2022, 24, 1497-1502.	1.9	5
43	A saturated PD plus scheme for asymptotic tracking of robot manipulators. , 2009, , .		4
44	PID control of robot manipulators in task space. , 2010, , .		4
45	Comments on â€œTracking Control of Robotic Manipulators With Uncertain Kinematics and Dynamicsâ€• IEEE Transactions on Industrial Electronics, 2017, 64, 8187-8189.	5.2	4
46	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.	1.1	4
47	Development of a nonlinear PID controller with saturated function design. , 0, , .		3
48	A Simple Linear Velocity Estimator for High-Precision Motion Control. , 2006, , .		3
49	Global Asymptotic Stability of PID Controller for Robotic Manipulators. , 2007, , .		3
50	Global Continuous Finite-Time Output Feedback Regulation of Robot Manipulators. , 2008, , .		3
51	A simple nonlinear PID control for finite-time regulation of robot manipulators. , 2009, , .		3
52	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.	0.4	3
53	Differentiatorâ€based time delay control for uncertain robot manipulators. Asian Journal of Control, 2023, 25, 485-496.	1.9	3
54	Vision-based PID regulation of robotic manipulators without velocity measurements. , 2010, , .		2

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55	A simple nonlinear PID control for global finite-time regulation of robot manipulators without velocity measurements. , 2010, , .		2
56	Comments on â€œController design for rigid spacecraft attitude tracking with actuator saturationâ€. Information Sciences, 2016, 342, 150-152.	4.0	2
57	Global Output Feedback Finite-Time Regulation of Robot Manipulators Under Actuator Constraints. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	2
58	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.	1.1	2
59	Comments on â€œAdaptive Sliding Mode Control for Attitude Stabilization With Actuator Saturationâ€. IEEE Transactions on Industrial Electronics, 2022, 69, 9679-9682.	5.2	2
60	A simple nonlinear proportional-derivative controller for friction compensation. , 2009, , .		1
61	Global asymptotic adaptive tracking of robot manipulators without velocity measurements. , 2010, , .		1
62	Single Robust Proportional-Derivative Control for Friction Compensation in Fast and Precise Motion Systems With Actuator Constraint. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	1
63	Simple Saturated PID Control for Fast Transient of Motion Systems. IFAC-PapersOnLine, 2020, 53, 8985-8990.	0.5	1
64	Integration of PD and Support Vector Machine for Semiglobal Tracking Control of Robot Manipulators. , 2008, , .		0
65	Comment on â€œRobust and adaptive variable structure output feedback control of uncertain systems with input nonlinearityâ€[Automatica 44 (2008) 552â€“559]. Automatica, 2015, 58, 125-126.	3.0	0
66	Comments on â€˜attitude stabilization of rigid spacecraft with finite-time convergenceâ€™. International Journal of Robust and Nonlinear Control, 2017, 27, 1039-1040.	2.1	0
67	Comments on â€œModular-Controller-Design-Based Fast Terminal Sliding Mode for Articulated Exoskeleton Systemsâ€. IEEE Transactions on Control Systems Technology, 2020, 28, 1621-1623.	3.2	0
68	Globally Asymptotic Output Feedback Tracking of Robot Manipulators With Actuator Constraints. IFAC-PapersOnLine, 2020, 53, 9930-9935.	0.5	0