Caisheng Wei

List of Publications by Year
in descending order

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44 papers	977 citations	430874 18 h-index	454955 30 g-index
47 all docs	47 docs citations	47 times ranked	519 citing authors

#	Article	IF	Citations
1	Learning-Based Adaptive Attitude Control of Spacecraft Formation With Guaranteed Prescribed Performance. IEEE Transactions on Cybernetics, 2019, 49, 4004-4016.	9.5	129
2	Appointed-time prescribed performance attitude tracking control via double performance functions. Aerospace Science and Technology, 2019, 93, 105337.	4.8	85
3	Low-complexity prescribed performance control for spacecraft attitude stabilization and tracking. Aerospace Science and Technology, 2018, 74, 173-183.	4.8	72
4	Leaderâ€following consensus of secondâ€order multiâ€agent systems with arbitrarily appointedâ€time prescribed performance. IET Control Theory and Applications, 2018, 12, 2276-2286.	2.1	61
5	Robust inertia-free attitude takeover control of postcapture combined spacecraft with guaranteed prescribed performance. ISA Transactions, 2018, 74, 28-44.	5.7	55
6	Learning-based adaptive prescribed performance control of postcapture space robot-target combination without inertia identifications. Acta Astronautica, 2018, 146, 228-242.	3.2	44
7	Low-complexity differentiator-based decentralized fault-tolerant control of uncertain large-scale nonlinear systems with unknown dead zone. Nonlinear Dynamics, 2017, 89, 2573-2592.	5.2	39
8	Robust prescribed performance control for Eulerâ€“Lagrange systems with practically finite-time stability. European Journal of Control, 2020, 52, 1-10.	2.6	38
9	Adaptive leader-following performance guaranteed formation control for multiple spacecraft with collision avoidance and connectivity assurance. Aerospace Science and Technology, 2022, 120, 107266.	4.8	35
10	Adaptive model-free constrained control of postcapture flexible spacecraft: a Eulerâ€“Lagrange approach. JVC/Journal of Vibration and Control, 2018, 24, 4885-4903.	2.6	34
11	Observer-based fault-tolerant attitude tracking control for rigid spacecraft with actuator saturation and faults. Acta Astronautica, 2021, 178, 824-834.	3.2	33
12	Robust estimationâ€free decentralized prescribed performance control of nonaffine nonlinear largeâ€scale systems. International Journal of Robust and Nonlinear Control, 2018, 28, 174-196.	3.7	30
13	Quasi fixed-time fault-tolerant control for nonlinear mechanical systems with enhanced performance. Applied Mathematics and Computation, 2019, 352, 157-173.	2.2	28
14	An overview of prescribed performance control and its application to spacecraft attitude system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 435-447.	1.0	26
15	On novel adaptive saturated deployment control of tethered satellite system with guaranteed output tracking prescribed performance. Aerospace Science and Technology, 2018, 75, 58-73.	4.8	23
16	Nonlinear disturbance observer based adaptive super-twisting sliding mode control for generic hypersonic vehicles with coupled multisource disturbances. European Journal of Control, 2021, 57, 253-262.	2.6	22
17	Robust LS-SVM-based adaptive constrained control for a class of uncertain nonlinear systems with time-varying predefined performance. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 561-587.	3.3	19
18	Event-triggered neuroadaptive control for postcapture spacecraft with ultralow-frequency actuator updates. Neurocomputing, 2018, 315, 310-321.	5.9	19

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19	Globally robust explicit model predictive control of constrained systems exploiting SVMâ€based approximation. International Journal of Robust and Nonlinear Control, 2017, 27, 3000-3027.	3.7	18
20	Novel finite-time attitude control of postcapture spacecraft with input faults and quantization. Advances in Space Research, 2020, 65, 297-311.	2.6	18
21	Adaptive Appointed-Time Consensus Control of Networked Eulerâ€“Lagrange Systems With Connectivity Preservation. IEEE Transactions on Cybernetics, 2022, 52, 12379-12392.	9.5	18
22	Learning-based adaptive fault tolerant control for hypersonic flight vehicles with abrupt actuator faults and finite time prescribed tracking performance. European Journal of Control, 2021, 58, 17-26.	2.6	14
23	Efficient adaptive constrained control with time-varying predefined performance for a hypersonic flight vehicle. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668750.	2.1	13
24	Novel Adaptive Saturated Attitude Tracking Control of Rigid Spacecraft with Guaranteed Transient and Steady-State Performance. Journal of Aerospace Engineering, 2018, 31, .	1.4	13
25	Active vibration control of underactuated free-floating spacecraft via a performance enhanced way. Acta Astronautica, 2019, 157, 477-488.	3.2	11
26	Event-driven adaptive fault-tolerant tracking control for uncertain mechanical systems with application to flexible spacecraft. JVC/Journal of Vibration and Control, 2020, 26, 1735-1752.	2.6	11
27	Output constrained adaptive neural control for generic hypersonic vehicles suffering from non-affine aerodynamic characteristics and stochastic disturbances. Aerospace Science and Technology, 2021, 111, 106469.	4.8	11
28	Learning Observer and Performance Tuning-Based Robust Consensus Policy for Multiagent Systems. IEEE Systems Journal, 2022, 16, 431-439.	4.6	10
29	Semisynchronizing Strategy for Capturing a High-Speed Tumbling Target. Journal of Guidance, Control, and Dynamics, 2018, 41, 2615-2632.	2.8	7
30	Two-stage filter for inertia characteristics estimation of high-speed tumbling targets. Aerospace Science and Technology, 2019, 89, 333-344.	4.8	7
31	Satellite Swarm Reconfiguration Planning Based on Surrogate Models. Journal of Guidance, Control, and Dynamics, 2020, 43, 1750-1756.	2.8	6
32	Adaptive finite-time prescribed performance attitude tracking control for reusable launch vehicle during reentry phase: An event-triggered case. Advances in Space Research, 2022, 69, 3814-3827.	2.6	6
33	On Novel Adaptive Coordinated Control for Spacecraft Formation: An Adjustable Performance Approach. IEEE Access, 2021, 9, 96799-96813.	4.2	4
34	Low-complexity stabilization control of combined spacecraft with an unknown captured object. , 2017, , .		3
35	BLSTM-Based Adaptive Finite-Time Output-Constrained Control for a Class of AUSs with Dynamic Disturbances and Actuator Faults. Mathematical Problems in Engineering, 2021, 2021, 1-15.	1.1	3
36	On Prescribed Performance Synchronization to QUAD Nonlinear Multi-Agent Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1377-1381.	3.0	3

#	Article	IF	Citations
37	ESO-based Trajectory Tracking Control for Quadrotor UAV with Prescribed Performance. , 2020, , .		2
38	Super-twisting disturbance observerâ€“based fuzzy adaptive finite-time control for a class of space unmanned systems with time-varying output constraints. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 1583-1593.	1.0	2
39	Adaptive Quasi Fixed-Time Orbit Control Around Asteroid with Performance Guarantees. CMES - Computer Modeling in Engineering and Sciences, 2020, 122, 89-107.	1.1	2
40	Robust model predictive control of uncertain nonlinear timeâ€delay systems via control contraction metric technique. International Journal of Robust and Nonlinear Control, 2021, 31, 3330-3353.	3.7	1
41	Evasion-Faced Fast Adaptive Neural Attitude Control for Generic Hypersonic Vehicles with Structural and Parametric Uncertainties. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	1
42	ESO-based saturated deployment control of tethered satellite system with finite-time tracking performance guarantees. IFAC-PapersOnLine, 2020, 53, 5689-5694.	0.9	1
43	Some new results on the finite-time control and its application to a chemical reactor system. Journal of Physics: Conference Series, 2019, 1187, 032012.	0.4	0
44	Reinforcement Learning Based Attitude Tracking Control of Spacecraft with Actuator Saturation and Inertial Uncertainty. , 2021, , .		0