Yuanlong Xie

List of Publications by Year
in descending order

55 papers	588 citations	623734 14 h-index	677142 22 g-index
55 all docs	55 docs citations	55 times ranked	361 citing authors

#	Article	IF	Citations
1	Coupled fractional-order sliding mode control and obstacle avoidance of a four-wheeled steerable mobile robot. ISA Transactions, 2021, 108, 282-294.	5.7	87
2	Data-driven adaptive fractional order PI control for PMSM servo system with measurement noise and data dropouts. ISA Transactions, 2018, 75, 172-188.	5.7	41
3	Iterative-learning error compensation for autonomous parking of mobile manipulator in harsh industrial environment. Robotics and Computer-Integrated Manufacturing, 2021, 68, 102077.	9.9	38
4	Model-free tuning strategy of fractional-order PI controller for speed regulation of permanent magnet synchronous motor. Transactions of the Institute of Measurement and Control, 2019, 41, 23-35.	1.7	28
5	Adaptive two-degree-of-freedom PI for speed control of permanent magnet synchronous motor based on fractional order GPC. ISA Transactions, 2016, 64, 303-313.	5.7	27
6	Training for smart manufacturing using a mobile robot-based production line. Frontiers of Mechanical Engineering, 2021, 16, 249-270.	4.3	25
7	Online Parallel Estimation of Mechanical Parameters for PMSM Drives via a Network of Interconnected Extended Sliding-Mode Observers. IEEE Transactions on Power Electronics, 2021, 36, 11818-11834.	7.9	25
8	Fault-Tolerant Dynamic Control of a Four-Wheel Redundantly-Actuated Mobile Robot. IEEE Access, 2019, 7, 157909-157921.	4.2	23
9	Adaptive Fractional Order PI Controller Design for a Flexible Swing arm System Via Enhanced Virtual Reference Feedback Tuning. Asian Journal of Control, 2018, 20, 1221-1240.	3.0	17
10	Iterative Data-Driven Fractional Model Reference Control of Industrial Robot for Repetitive Precise Speed Tracking. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1041-1053.	5.8	17
11	A safe and efficient LIDAR-based navigation system for 4WS4WD mobile manipulators in manufacturing plants. Measurement Science and Technology, 2021, 32, 045203.	2.6	17
12	Robust Cascade Path-Tracking Control of Networked Industrial Robot Using Constrained Iterative Feedback Tuning. IEEE Access, 2019, 7, 8470-8482.	4.2	16
13	Anti-Disturbance Direct Yaw Moment Control of a Four-Wheeled Autonomous Mobile Robot. IEEE Access, 2020, 8, 174654-174666.	4.2	16
14	Reliable and Fast Localization in Ambiguous Environments Using Ambiguity Grid Map. Sensors, 2019, 19, 3331.	3.8	15
15	A multi-objective bat algorithm with a novel competitive mechanism and its application in controller tuning. Engineering Applications of Artificial Intelligence, 2021, 106, 104453.	8.1	12
16	Efficient and Reliable LiDAR-Based Global Localization of Mobile Robots Using Multiscale/Resolution Maps. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	12
17	Fractional robust finite time control of four-wheel-steering mobile robots subject to serious time-varying perturbations. Mechanism and Machine Theory, 2022, 169, 104634.	4.5	12
18	Continuous measurements with single setup for position-dependent geometric errors of rotary axes on five-axis machine tools by a laser displacement sensor. International Journal of Advanced Manufacturing Technology, 2018, 99, 1589-1602.	3.0	11

#	Article	IF	Citations
19	Stable Simultaneous Inertia and Disturbance Torque Identification for SPMSM Drive Systems Subject to Mismatched Rotor Flux Linkage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2445-2462.	5.4	11
20	Reference training system for intelligent manufacturing talent education: platform construction and curriculum development. Journal of Intelligent Manufacturing, 2023, 34, 1125-1164.	7.3	10
21	Decoupled Fractional Supertwisting Stabilization of Interconnected Mobile Robot Under Harsh Terrain Conditions. IEEE Transactions on Industrial Electronics, 2022, 69, 8178-8189.	7.9	10
22	Motion planning and tracking control of a four-wheel independently driven steered mobile robot with multiple maneuvering modes. Frontiers of Mechanical Engineering, 2021, 16, 504-527.	4.3	9
23	Adaptive Neural Consensus for Fractional-Order Multi-Agent Systems With Faults and Delays. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7873-7886.	11.3	8
24	Fast Finite-Time Tracking Consensus With Applications on Multiple Servo Motors. IEEE Transactions on Industrial Electronics, 2023, 70, 2993-3002.	7.9	8
25	An Improved Observation Model for Monte-Carlo Localization Integrated with Reliable Reflector Prediction. , 2019, , .		7
26	Efficient re-localization of mobile robot using strategy of finding a missing person. Measurement: Journal of the International Measurement Confederation, 2021, 176, 109212.	5.0	7
27	Dynamic Modeling and Load Identification of Industrial Robot Using Improved Particle Swarm Optimization. , 2018, , .		6
28	Data€based cascade control of permanent magnet synchronous motor with industrial robot application. Journal of Engineering, 2018, 2018, 1930-1934.	1.1	6
29	Robust Lateral Stabilization Control of In-Wheel-Motor-Driven Mobile Robots via Active Disturbance Suppression Approach. Sensors, 2020, 20, 5238.	3.8	6
30	Coupled Sliding Mode Control of an Omnidirectional Mobile Robot with Variable Modes*. , 2020, , .		6
31	Controller optimization using data-driven constrained bat algorithm with gradient-based depth-first search strategy. ISA Transactions, 2022, 125, 212-236.	5.7	6
32	Asynchronous H_∞ Continuous Stabilization of Mode-Dependent Switched Mobile Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6906-6920.	9.3	6
33	A Fast Path Planning Method for Mobile Robot Based on Voronoi Diagram and Improved D* Algorithm. , 2019, , .		5
34	Inverse Decoupling-based Direct Yaw Moment Control of a Four-wheel Independent Steering Mobile Robot. , 2020, , .		4
35	A Novel Extrinsic Calibration Method of Mobile Manipulator Camera and 2D-LiDAR via Arbitrary Trihedron-Based Reconstruction. IEEE Sensors Journal, 2021, 21, 24672-24682.	4.7	4
36	Hierarchical autonomous switching control of a multi-modes omnidirectional mobile robot. Mechatronics, 2021, 80, 102692.	3.3	4

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37	Constrained fast finite‐time exact tracking for disturbed nonlinear systems. International Journal of Robust and Nonlinear Control, 2022, 32, 4376-4400.	3.7	4
38	Speed-Controller-Independent Mechanical Parameter Identification in SPMSM Drive Achieved via Signal Injection. IEEE Transactions on Industrial Electronics, 2023, 70, 1282-1297.	7.9	4
39	Calibration for Kinematic Parameters of Industrial Robot by a Laser Displacement Sensor. , 2018, , .		3
40	MISO Model Free Adaptive Control of Single Joint Rehabilitation Robot Driven by Pneumatic Artificial Muscles. , 2020, , .		3
41	Accurate LiDAR-based Localization in Glass-walled Environment. , 2020, , .		2
42	A Relational Abstraction of Structure and Behavior for Cyber-Physical System Design. IEEE Access, 2021, 9, 40388-40401.	4.2	2
43	Asymmetric Barrier Function-based Adaptive Control of a Four-Wheel-Steering Mobile Robot*. , 2020, , .		2
44	Trajectory Tracking of a 4wis4wid Robot Using Adaptive Receding Horizon Control Based on Neurodynamics Optimization*. , 2019, , .		1
45	Adaptive Fuzzy PI Controller Tuning Method For Speed Tracking of Permanent Magnet Synchronous Motor Servo System. , 2019, , .		1
46	Inertia Estimation for PMSM Drive System Using Artificial Neural Network. , 2020, , .		1
47	Graph-based Extrinsic Calibration of Multiple 2D-Lidars. , 2021, , .		1
48	Iterative Super-Twisting Sliding Mode Control of Autonomous Mobile Robot. , 2021, , .		1
49	Fast and Reliable Global Localization Using Reflector Landmarks. , 2020, , .		1
50	Chattering-free hybrid control for speed regulation of permanent magnet synchronous motor. , 2016, , .		0
51	A Design Approach of Fractional-order Proportional-plus-integral Controller with Experimental Validation Free of Analytical Model. , 2018, , .		0
52	Fault-Tolerant Toque Control of a Four-Wheeled Redundantly-Actuated Mobile Robot. , 2021, , .		0
53	Hierarchical Structural Analysis Method for Complex Equation-Oriented Models. Mathematics, 2021, 9, 2660.	2.2	0
54	Improved Double-tree RRT* Algorithm for Efficient Path Planning of Mobile Robots. , 2020, , .		0

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55	Modified MRAS-Based Algorithm for Inertia Estimation of Mobile Robotic Chassis Drive Systems. , 2020, , .		0