

# Yuanlong Xie

## List of Publications by Year in descending order

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55  
papers

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623734  
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docs citations

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times ranked

361  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reference training system for intelligent manufacturing talent education: platform construction and curriculum development. Journal of Intelligent Manufacturing, 2023, 34, 1125-1164.	7.3	10
2	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
3	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
4	Fast Finite-Time Tracking Consensus With Applications on Multiple Servo Motors. IEEE Transactions on Industrial Electronics, 2023, 70, 2993-3002.	7.9	8
5	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
6	Controller optimization using data-driven constrained bat algorithm with gradient-based depth-first search strategy. ISA Transactions, 2022, 125, 212-236.	5.7	6
7	Decoupled Fractional Supertwisting Stabilization of Interconnected Mobile Robot Under Harsh Terrain Conditions. IEEE Transactions on Industrial Electronics, 2022, 69, 8178-8189.	7.9	10
8	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
9	Asynchronous $H_\infty$ Continuous Stabilization of Mode-Dependent Switched Mobile Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6906-6920.	9.3	6
10	Constrained fast finite-time exact tracking for disturbed nonlinear systems. International Journal of Robust and Nonlinear Control, 2022, 32, 4376-4400.	3.7	4
11	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
12	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
13	A Relational Abstraction of Structure and Behavior for Cyber-Physical System Design. IEEE Access, 2021, 9, 40388-40401.	4.2	2
14	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
15	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
16	Training for smart manufacturing using a mobile robot-based production line. Frontiers of Mechanical Engineering, 2021, 16, 249-270.	4.3	25
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Graph-based Extrinsic Calibration of Multiple 2D-Lidars. , 2021, , .		1
20	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
21	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
22	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
23	Iterative Super-Twisting Sliding Mode Control of Autonomous Mobile Robot. , 2021, , .		1
24	Fault-Tolerant Torque Control of a Four-Wheeled Redundantly-Actuated Mobile Robot. , 2021, , .		0
25	Hierarchical Structural Analysis Method for Complex Equation-Oriented Models. Mathematics, 2021, 9, 2660.	2.2	0
26	Hierarchical autonomous switching control of a multi-modes omnidirectional mobile robot. Mechatronics, 2021, 80, 102692.	3.3	4
27	Robust Lateral Stabilization Control of In-Wheel-Motor-Driven Mobile Robots via Active Disturbance Suppression Approach. Sensors, 2020, 20, 5238.	3.8	6
28	MISO Model Free Adaptive Control of Single Joint Rehabilitation Robot Driven by Pneumatic Artificial Muscles. , 2020, , .		3
29	Accurate LiDAR-based Localization in Glass-walled Environment. , 2020, , .		2
30	Anti-Disturbance Direct Yaw Moment Control of a Four-Wheeled Autonomous Mobile Robot. IEEE Access, 2020, 8, 174654-174666.	4.2	16
31	Inverse Decoupling-based Direct Yaw Moment Control of a Four-wheel Independent Steering Mobile Robot. , 2020, , .		4
32	Coupled Sliding Mode Control of an Omnidirectional Mobile Robot with Variable Modes*. , 2020, , .		6
33	Inertia Estimation for PMSM Drive System Using Artificial Neural Network. , 2020, , .		1
34	Asymmetric Barrier Function-based Adaptive Control of a Four-Wheel-Steering Mobile Robot*. , 2020, , .		2
35	Improved Double-tree RRT* Algorithm for Efficient Path Planning of Mobile Robots. , 2020, , .		0
36	Fast and Reliable Global Localization Using Reflector Landmarks. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
37	Modified MRAS-Based Algorithm for Inertia Estimation of Mobile Robotic Chassis Drive Systems. , 2020, , .		0
38	Reliable and Fast Localization in Ambiguous Environments Using Ambiguity Grid Map. Sensors, 2019, 19, 3331.	3.8	15
39	A Fast Path Planning Method for Mobile Robot Based on Voronoi Diagram and Improved D* Algorithm. , 2019, , .		5
40	Trajectory Tracking of a 4wis4wid Robot Using Adaptive Receding Horizon Control Based on Neurodynamics Optimization*. , 2019, , .		1
41	An Improved Observation Model for Monte-Carlo Localization Integrated with Reliable Reflector Prediction. , 2019, , .		7
42	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
43	Fault-Tolerant Dynamic Control of a Four-Wheel Redundantly-Actuated Mobile Robot. IEEE Access, 2019, 7, 157909-157921.	4.2	23
44	Adaptive Fuzzy PI Controller Tuning Method For Speed Tracking of Permanent Magnet Synchronous Motor Servo System. , 2019, , .		1
45	Robust Cascade Path-Tracking Control of Networked Industrial Robot Using Constrained Iterative Feedback Tuning. IEEE Access, 2019, 7, 8470-8482.	4.2	16
46	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
47	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
48	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
49	Calibration for Kinematic Parameters of Industrial Robot by a Laser Displacement Sensor. , 2018, , .		3
50	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
51	Dynamic Modeling and Load Identification of Industrial Robot Using Improved Particle Swarm Optimization. , 2018, , .		6
52	Data-based cascade control of permanent magnet synchronous motor with industrial robot application. Journal of Engineering, 2018, 2018, 1930-1934.	1.1	6
53	A Design Approach of Fractional-order Proportional-plus-integral Controller with Experimental Validation Free of Analytical Model. , 2018, , .		0
54	Chattering-free hybrid control for speed regulation of permanent magnet synchronous motor. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	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