

# Xincheng Tian

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

617  
citations

759233

12  
h-index

677142

22  
g-index

58  
all docs

58  
docs citations

58  
times ranked

347  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel online motion planning method for double-pendulum overhead cranes. <i>Nonlinear Dynamics</i> , 2016, 85, 1079-1090.	5.2	87
2	A Two-Stage Industrial Defect Detection Framework Based on Improved-YOLOv5 and Optimized-Inception-ResnetV2 Models. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 834.	2.5	58
3	Automatic programming for industrial robot to weld intersecting pipes. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 2099-2107.	3.0	40
4	A partially saturated adaptive learning controller for overhead cranes with payload hoisting/lowering and unknown parameters. <i>Nonlinear Dynamics</i> , 2017, 89, 1779-1791.	5.2	34
5	Automation of main pipe-rotating welding scheme for intersecting pipes. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 955-964.	3.0	24
6	Weld seam fitting and welding torch trajectory planning based on NURBS in intersecting curve welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2457-2471.	3.0	24
7	A decision-tree based multiple-model UKF for attitude estimation using low-cost MEMS MARG sensor arrays. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 135, 355-367.	5.0	24
8	An Enhanced Coupling Nonlinear Tracking Controller for Underactuated 3D Overhead Crane Systems. <i>Asian Journal of Control</i> , 2018, 20, 1839-1854.	3.0	23
9	A novel energy-coupling-based control method for double-pendulum overhead cranes with initial control force constraint. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401775221.	1.6	20
10	A Novel Orientation Determination Approach of Mobile Robot Using Inertial and Magnetic Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 4267-4277.	7.9	20
11	Dimensional error analysis and its intelligent pre-compensation in cnc grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 36, 28-33.	3.0	18
12	Deep learning based human action recognition: A survey. , 2017, , .		17
13	A Novel Joint Angle Estimation Method for Serial Manipulator Using Micro-Electromechanical Systems Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 10610-10620.	7.9	16
14	A novel welding path planning method based on point cloud for robotic welding of impeller blades. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 8025-8038.	3.0	13
15	An Adaptive Zero-Velocity Interval Detector Using Instep-Mounted Inertial Measurement Unit. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-13.	4.7	12
16	Intelligent dimensional error pre-compensation in CNC grinding using iterative learning approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 1825-1832.	3.0	11
17	A Robust Incremental-Quaternion-Based Angle and Axis Estimation Algorithm of a Single-Axis Rotation Using MARG Sensors. <i>IEEE Access</i> , 2018, 6, 42605-42615.	4.2	11
18	Robot path planning with two-axis positioner for non-ideal sphere-pipe joint welding based on laser scanning. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 1295-1310.	3.0	11

#	ARTICLE	IF	CITATIONS
19	A Double-EKF Orientation Estimator Decoupling Magnetometer Effects on Pitch and Roll Angles. IEEE Transactions on Industrial Electronics, 2022, 69, 2055-2066.	7.9	11
20	A Semi-Supervised Fault Diagnosis Method Based on Improved Bidirectional Generative Adversarial Network. Applied Sciences (Switzerland), 2021, 11, 9401.	2.5	9
21	Posture estimation system by IMM-based unscented Kalman filters. , 2017, , .		8
22	A sEMG-Controlled Robotic Hand Exoskeleton for Rehabilitation in Post-Stroke Individuals. , 2018, , .		8
23	A method of welding path planning of steel mesh based on point cloud for welding robot. International Journal of Advanced Manufacturing Technology, 2021, 116, 2943-2957.	3.0	8
24	Dimensional error prediction and its intelligent soft pre-compensation in batch manufacture. International Journal of Advanced Manufacturing Technology, 2015, 77, 281-288.	3.0	7
25	Plasma beam radius compensation-integrated torch path planning for CNC pipe hole cutting with welding groove. International Journal of Advanced Manufacturing Technology, 2017, 88, 1971-1981.	3.0	7
26	Vibration displacement measurement based on three axes accelerometer. , 2017, , .		7
27	A robot welding approach for the sphere-pipe joints with swing and multi-layer planning. International Journal of Advanced Manufacturing Technology, 2019, 105, 265-278.	3.0	7
28	An Autonomous Developmental Cognitive Architecture Based on Incremental Associative Neural Network With Dynamic Audiovisual Fusion. IEEE Access, 2019, 7, 8789-8807.	4.2	7
29	Wind Turbine Blade Icing Prediction Based on Deep Belief Network. , 2019, , .		7
30	Plasma cutting torch trajectory planning for main pipe hole cutting with welding groove and root face. International Journal of Advanced Manufacturing Technology, 2017, 93, 4329-4343.	3.0	6
31	Classification of hand motions using linear discriminant analysis and support vector machine. , 2017, , .		6
32	A self-organizing developmental cognitive architecture with interactive reinforcement learning. Neurocomputing, 2020, 377, 269-285.	5.9	6
33	Geometric error sensitivity analysis for a 6-axis welding equipment based on Lie theory. International Journal of Advanced Manufacturing Technology, 2021, 113, 1045-1056.	3.0	6
34	A Decoupled Orientation Estimation Approach for Robust Roll and Pitch Measurements in Magnetically Disturbed Environment. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	6
35	An intelligent self-learning method for dimensional error pre-compensation in CNC grinding. International Journal of Advanced Manufacturing Technology, 2014, 75, 1349-1356.	3.0	5
36	The Research of Indoor Three-Dimensional Positioning Algorithm Based on Ultra-Wideband Technology. , 2020, , .		5

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37	Dimensional Accuracy Enhancement in CNC Batch Grinding through Fractional Order Iterative Learning Compensation. <i>Advances in Mechanical Engineering</i> , 2014, 6, 260420.	1.6	4
38	Modeling and energy-based fuzzy controlling for underactuated overhead cranes with load transferring, lowering, and persistent external disturbances. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401772008.	1.6	4
39	Adaptive neural network command filtered backstepping impedance control for uncertain robotic manipulators with disturbance observer. <i>Transactions of the Institute of Measurement and Control</i> , 0, , 014233122110093.	1.7	4
40	Research on Indoor Positioning Technology Based on UWB. , 2020, , .		3
41	Deviation quantification of the intersecting curve weld seam based on non-ideal models. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 1347-1361.	3.0	2
42	Research on SCARA robot sorting system based on CoDeSys. , 2019, , .		2
43	A proposed attitude estimator with reliability test criteria for sensor data fusion. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 150, 107046.	5.0	2
44	Realization of coordinate compensation algorithm in numerical control for steel grating flame cutting system. , 2017, , .		1
45	Four axes wear-resistant coating testing system based on EtherCAT. , 2017, , .		1
46	Research on Multiple Muscles Synergy Based on Joint Recurrence Quantification Analysis. , 2018, , .		1
47	An Attitude Compensation Method based on Neural Network Using Data from MEMS MARG Sensors. , 2019, , .		1
48	Model independent PD-SMC method for bionic eye systems. , 2017, , .		0
49	Vergence eye movement with prediction and learning based on dual visual-local feedback. , 2017, , .		0
50	Quadrotor vertical taking off and landing control based on backstepping and non-singular terminal sliding mode. , 2017, , .		0
51	A regularized particle filter for the posture estimation of the small ship. , 2017, , .		0
52	An arithmetic model of indexable inserts grinding using tangential point tracing method. , 2017, , .		0
53	Tool Wear Volume and Residual Life Prediction Based on Extreme Learning Machine. , 2019, , .		0
54	Bearing Fault Diagnosis Based on Attentional Multi-scale CNN. <i>Lecture Notes in Computer Science</i> , 2021, , 25-36.	1.3	0

#	ARTICLE	IF	CITATIONS
55	A Novel Control Approach of the Flexible Servo Riveting Gun Based on Self-pierce Riveting Technology. Lecture Notes in Computer Science, 2021, , 257-267.	1.3	0
56	An Encoder-Free Joint Velocity Estimation Method for Serial Manipulators Using Inertial Sensors. , 2021, , .		0
57	Distributed Process Monitoring Based on multi-block KGLPP. , 2022, , .		0