

# Xincheng Tian

## List of Publications by Year in descending order

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57  
papers

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citations

759233

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Orientation Determination Approach of Mobile Robot Using Inertial and Magnetic Sensors. IEEE Transactions on Industrial Electronics, 2023, 70, 4267-4277.	7.9	20
2	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
3	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
4	A novel welding path planning method based on point cloud for robotic welding of impeller blades. International Journal of Advanced Manufacturing Technology, 2022, 119, 8025-8038.	3.0	13
5	A Two-Stage Industrial Defect Detection Framework Based on Improved-YOLOv5 and Optimized-Inception-ResnetV2 Models. Applied Sciences (Switzerland), 2022, 12, 834.	2.5	58
6	Distributed Process Monitoring Based on multi-block KGLPP. , 2022, , .		0
7	An Adaptive Zero-Velocity Interval Detector Using Instep-Mounted Inertial Measurement Unit. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	12
8	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
9	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
10	Bearing Fault Diagnosis Based on Attentional Multi-scale CNN. Lecture Notes in Computer Science, 2021, , 25-36.	1.3	0
11	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
12	An Encoder-Free Joint Velocity Estimation Method for Serial Manipulators Using Inertial Sensors. , 2021, , .		0
13	A Semi-Supervised Fault Diagnosis Method Based on Improved Bidirectional Generative Adversarial Network. Applied Sciences (Switzerland), 2021, 11, 9401.	2.5	9
14	A proposed attitude estimator with reliability test criteria for sensor data fusion. Measurement: Journal of the International Measurement Confederation, 2020, 150, 107046.	5.0	2
15	A self-organizing developmental cognitive architecture with interactive reinforcement learning. Neurocomputing, 2020, 377, 269-285.	5.9	6
16	Research on Indoor Positioning Technology Based on UWB. , 2020, , .		3
17	A Novel Joint Angle Estimation Method for Serial Manipulator Using Micro-Electromechanical Systems Sensors. IEEE Transactions on Industrial Electronics, 2020, 67, 10610-10620.	7.9	16
18	The Research of Indoor Three-Dimensional Positioning Algorithm Based on Ultra-Wideband Technology. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	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
20	Robot path planning with two-axis positioner for non-ideal sphere-pipe joint welding based on laser scanning. International Journal of Advanced Manufacturing Technology, 2019, 105, 1295-1310.	3.0	11
21	Research on SCARA robot sorting system based on CoDeSys. , 2019, , .		2
22	An Autonomous Developmental Cognitive Architecture Based on Incremental Associative Neural Network With Dynamic Audiovisual Fusion. IEEE Access, 2019, 7, 8789-8807.	4.2	7
23	An Attitude Compensation Method based on Neural Network Using Data from MEMS MARG Sensors. , 2019, , .		1
24	Tool Wear Volume and Residual Life Prediction Based on Extreme Learning Machine. , 2019, , .		0
25	Wind Turbine Blade Icing Prediction Based on Deep Belief Network. , 2019, , .		7
26	A decision-tree based multiple-model UKF for attitude estimation using low-cost MEMS MARG sensor arrays. Measurement: Journal of the International Measurement Confederation, 2019, 135, 355-367.	5.0	24
27	A novel energy-coupling-based control method for double-pendulum overhead cranes with initial control force constraint. Advances in Mechanical Engineering, 2018, 10, 168781401775221.	1.6	20
28	An Enhanced Coupling Nonlinear Tracking Controller for Underactuated 3D Overhead Crane Systems. Asian Journal of Control, 2018, 20, 1839-1854.	3.0	23
29	Weld seam fitting and welding torch trajectory planning based on NURBS in intersecting curve welding. International Journal of Advanced Manufacturing Technology, 2018, 95, 2457-2471.	3.0	24
30	Research on Multiple Muscles Synergy Based on Joint Recurrence Quantification Analysis. , 2018, , .		1
31	A sEMG-Controlled Robotic Hand Exoskeleton for Rehabilitation in Post-Stroke Individuals. , 2018, , .		8
32	A Robust Incremental-Quaternion-Based Angle and Axis Estimation Algorithm of a Single-Axis Rotation Using MARG Sensors. IEEE Access, 2018, 6, 42605-42615.	4.2	11
33	Deviation quantification of the intersecting curve weld seam based on non-ideal models. International Journal of Advanced Manufacturing Technology, 2018, 97, 1347-1361.	3.0	2
34	A partially saturated adaptive learning controller for overhead cranes with payload hoisting/lowering and unknown parameters. Nonlinear Dynamics, 2017, 89, 1779-1791.	5.2	34
35	Modeling and energy-based fuzzy controlling for underactuated overhead cranes with load transferring, lowering, and persistent external disturbances. Advances in Mechanical Engineering, 2017, 9, 168781401772008.	1.6	4
36	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

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37	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
38	Model independent PD-SMC method for bionic eye systems. , 2017, , .		0
39	Posture estimation system by IMM-based unscented Kalman filters. , 2017, , .		8
40	Deep learning based human action recognition: A survey. , 2017, , .		17
41	Classification of hand motions using linear discriminant analysis and support vector machine. , 2017, , .		6
42	Vergence eye movement with prediction and learning based on dual visual-local feedback. , 2017, , .		0
43	Realization of coordinate compensation algorithm in numerical control for steel grating flame cutting system. , 2017, , .		1
44	Quadrotor vertical taking off and landing control based on backstepping and non-singular terminal sliding mode. , 2017, , .		0
45	Four axes wear-resistant coating testing system based on EtherCAT. , 2017, , .		1
46	Vibration displacement measurement based on three axes accelerometer. , 2017, , .		7
47	A regularized particle filter for the posture estimation of the small ship. , 2017, , .		0
48	An arithmetic model of indexable inserts grinding using tangential point tracing method. , 2017, , .		0
49	A novel online motion planning method for double-pendulum overhead cranes. Nonlinear Dynamics, 2016, 85, 1079-1090.	5.2	87
50	Automation of main pipe-rotating welding scheme for intersecting pipes. International Journal of Advanced Manufacturing Technology, 2015, 77, 955-964.	3.0	24
51	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
52	Automatic programming for industrial robot to weld intersecting pipes. International Journal of Advanced Manufacturing Technology, 2015, 81, 2099-2107.	3.0	40
53	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
54	Dimensional Accuracy Enhancement in CNC Batch Grinding through Fractional Order Iterative Learning Compensation. Advances in Mechanical Engineering, 2014, 6, 260420.	1.6	4

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55	Intelligent dimensional error pre-compensation in CNC grinding using iterative learning approach. International Journal of Advanced Manufacturing Technology, 2013, 67, 1825-1832.	3.0	11
56	Dimensional error analysis and its intelligent pre-compensation in cnc grinding. International Journal of Advanced Manufacturing Technology, 2008, 36, 28-33.	3.0	18
57	Adaptive neural network command filtered backstepping impedance control for uncertain robotic manipulators with disturbance observer. Transactions of the Institute of Measurement and Control, 0, , 014233122110093.	1.7	4