Heping Chen

List of Publications by Year
in descending order

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59 papers	452 citations	1163117 8 h-index	940533 16 g-index
59 all docs	59 docs citations	59 times ranked	431 citing authors

#	Article	IF	Citations
1	Topological Indoor Localization and Navigation for Autonomous Mobile Robot. IEEE Transactions on Automation Science and Engineering, 2015, 12, 729-738.	5.2	54
2	Jamming Analysis and Force Control for Flexible Dual Peg-in-Hole Assembly. IEEE Transactions on Industrial Electronics, 2019, 66, 1930-1939.	7.9	47
3	Study on the Performances of Waste Crumb Rubber Modified Asphalt Mixture with Eco-Friendly Diatomite and Basalt Fiber. Sustainability, 2019, 11, 5282.	3.2	27
4	Accuracy Analysis of Dynamic-Wafer-Handling Robotic System in Semiconductor Manufacturing. IEEE Transactions on Industrial Electronics, 2014, 61, 1402-1410.	7.9	26
5	Automated Robot Tool Trajectory Connection for Spray Forming Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	2.2	24
6	Modeling and real-time prediction for complex welding process based on weld pool. International Journal of Advanced Manufacturing Technology, 2018, 96, 2495-2508.	3.0	19
7	Robot semantic mapping through wearable sensor-based human activity recognition. , 2012, , .		16
8	Online parameter optimization in robotic force controlled assembly processes. , 2014, , .		15
9	Estimation of hand force from surface Electromyography signals using Artificial Neural Network. , 2012, , .		14
10	Challenges of robotics and automation in offshore oil&gas industry. , 2014, , .		14
11	Machine Learning Approach to Develop a Novel Multi-Objective Optimization Method for Pavement Material Proportion. Applied Sciences (Switzerland), 2021, 11, 835.	2.5	14
12	Surface partitioning in automated CAD-guided tool planning for additive manufacturing. , 0, , .		9
13	Predicting characteristic performance for arc welding process. , 2016, , .		9
14	Robust compliant assembly automation using an industrial robot. , 2011, , .		8
15	A micro robot with the ability of fly and adhesion: Development and experiment. , 2011, , .		8
16	Unified Switching between Active Flying and Perching of a Bioinspired Robot Using Impedance Control. Journal of Robotics, 2015, 2015, 1-11.	0.9	8
17	Robotic welding parameter optimization based on weld quality evaluation. , 2016, , .		8
18	Real time welding parameter prediction for desired character performance. , 2017, , .		8

#	Article	IF	Citations
19	Controller parameter optimization for complex industrial system with uncertainties. Measurement and Control, 2019, 52, 888-895.	1.8	8
20	Transformative industrial robot programming in surface manufacturing. , 2011, , .		7
21	A bat-like switched flying and adhesive robot. , 2012, , .		7
22	Online performance optimization for complex robotic assembly processes. Journal of Manufacturing Processes, 2021, 72, 544-552.	5.9	7
23	Decentralized flocking control with a minority of informed agents. , 2011, , .		6
24	Non-vector space visual servoing for multiple pin-in-hole assembly by robot. , 2016, , .		6
25	Semiautonomous industrial mobile manipulation for industrial applications. , 2013, , .		5
26	Learning from demonstration enabled robotic small part assembly. , 2014, , .		5
27	A Review of Path Planning for Wire Arc Additive Manufacturing (WAAM). Journal of Advanced Manufacturing Systems, 2021, 20, 589-609.	1.0	5
28	Support Vector Regression for Optimal Robotic Force Control Assembly. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	5
29	A Review of Sensors and Machine Learning in Animal Farming. , 2021, , .		5
30	Top Surface Roughness Modeling for Robotic Wire Arc Additive Manufacturing. Journal of Manufacturing and Materials Processing, 2022, 6, 39.	2.2	5
31	Dynamic wafer handling process in semiconductor manufacturing. , 2011, , .		4
32	Human-like indoor navigation for Autonomous Industrial Mobile Manipulator. , 2012, , .		4
33	Modeling complex robotic assembly process using Gaussian Process Regression. , 2014, , .		4
34	Exploring optimal controller parameters for complex industrial systems. , 2015, , .		4
35	Nonsingular terminal sliding-mode control for nonlinear robot manipulators with uncertain parameters. , 2015, , .		4
36	General swing-up methodology for the vertical three-link underactuated manipulator. , 2013, , .		3

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37	Industrial robotic assembly process modeling using support vector regression. , 2014, , .		3
38	A high-accuracy tracking control for welding robot. , 2016, , .		3
39	Predicting Layer Roughness with Weaving Path in Robotic Wire Arc Additive Manufacturing Using Multilayer Perceptron. , 2021, , .		3
40	Topological Indoor Localization & Navigation for Autonomous Industrial Mobile Manipulator. , 2012, , .		2
41	Autonomous robot teaching using a smart robot in production line. , 2013, , .		2
42	Performance improvement for high accuracy assembly process in manufacturing automation. , 2013, , .		2
43	Robot learning based on Partial Observable Markov Decision Process in unstructured environment. , 2014, , .		2
44	Exploring robotic applications in offshore oil&gas industry. , 2014, , .		2
45	Review on mechanism and modeling of jumping robot. , 2016, , .		2
46	A collaborative control framework for driver assistance systems. , 2017, , .		2
47	Learning quasi-periodic robot motions from demonstration. Autonomous Robots, 2020, 44, 251-266.	4.8	2
48	Optimal design of the flying and adhesive robot. , 2013, , .		1
49	Statistical modeling of heterogeneous robotic assembly time with Weibull regression. , 2015, , .		1
50	Optimizing industrial robot motion powered by renewable sources. , 2016, , .		1
51	Keyway Alignment Using GRNN in Robotic Pipe Handling. Journal of Advanced Manufacturing Systems, 2021, 20, 111-121.	1.0	1
52	Optimizing Process Recipe for Critical Dimensions in Dry Etching Process. IEEE Transactions on Semiconductor Manufacturing, 2021, 34, 87-93.	1.7	1
53	Periodic trajectory generation and tracking control for a class of underactuated mechanical systems. , 2012, , .		0
54	Eccentricity estimation with error modeling in dynamic wafer handling. International Journal of Advanced Manufacturing Technology, 2013, 68, 425-433.	3.0	0

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55	POMDP based robot teaching for high precision assembly in manufacturing automation. , 2013, , .		0
56	Wafer eccentricity estimation with disturbance caused by alignment notch. , 2013, , .		0
57	A new weighting iterative solution for laser tracker registration. , 2015, , .		0
58	Efficient controller parameter tuning for a system with disturbance. , 2015, , .		0
59	Improving Measurement Accuracy in Cement Raw Meal Composition. , 2019, , .		0