Hyunmin Do

List of Publications by Year
in descending order

60 papers	288 citations	1163117 8 h-index	1058476 14 g-index
62 all docs	62 docs citations	62 times ranked	219 citing authors

#	Article	IF	Citations
1	Integrated linkage-driven dexterous anthropomorphic robotic hand. Nature Communications, 2021, 12, 7177.	12.8	53
2	Dual arm robot for packaging and assembling of IT products. , 2012, , .		28
3	Automation of cell production system for cellular phones using dual-arm robots. International Journal of Advanced Manufacturing Technology, 2016, 83, 1349-1360.	3.0	24
4	Screw based kinematic calibration method for robot manipulators with joint compliance using circular point analysis. Robotics and Computer-Integrated Manufacturing, 2019, 60, 63-76.	9.9	17
5	Evaluation of Force Estimation Method Based on Sliding Perturbation Observer for Dual-arm Robot System. International Journal of Control, Automation and Systems, 2021, 19, 1-10.	2.7	15
6	Six-Axis Force/Torque Fingertip Sensor for an Anthropomorphic Robot Hand. IEEE Robotics and Automation Letters, 2020, 5, 5566-5572.	5.1	14
7	Design and control of dual-arm robot for cell manufacturing process. , 2013, , .		11
8	Real–time synchronisation method in multi–robot system. Electronics Letters, 2014, 50, 1824-1826.	1.0	11
9	Visual Mark for Robot Manipulation and Its RT-Middleware Component. Advanced Robotics, 2008, 22, 633-655.	1.8	10
10	A Novel Intrinsic Force Sensing Method for Robot Manipulators During Human–Robot Interaction. IEEE Transactions on Robotics, 2021, 37, 2218-2225.	10.3	10
11	Development of dual arm robot platform for automatic assembly. , 2014, , .		7
12	Automatic assembly method with the passive compliant device. , 2017, , .		7
13	Visual Marker System for Autonomous Object Handling by Assistive Robotic Arm. Journal of Robotics and Mechatronics, 2011, 23, 484-493.	1.0	6
14	Robust Parameter Estimation of Robot Manipulators Using Torque Separation Technique. IEEE Access, 2021, 9, 150443-150458.	4.2	6
15	Design of an industrial dual arm robot manipulator for a Human-Robot hybrid manufacturing. , 2012, , .		5
16	Trajectory correction based on shape peculiarity in direct teaching manipulator. International Journal of Control, Automation and Systems, 2013, 11, 1009-1017.	2.7	5
17	User-friendly teaching tool for a robot manipulator in human robot collaboration. , 2017, , .		5
18	MODMAN: SELF-RECONFIGURABLE MODULAR MANIPULATION SYSTEM FOR EXPANSION OF ROBOT APPLICABILITY. , 2016, , 688-696.		5

#	Article	IF	Citations
19	Case studies of a industrial dual-arm robot application. , 2017, , .		4
20	Advanced 2-DOF Counterbalance Mechanism Based on Gear Units and Springs to Minimize Required Torques of Robot Arm. IEEE Robotics and Automation Letters, 2022, 7, 6320-6326.	5.1	4
21	Multiple robots localization using large planar camera array for automated guided vehicle system. , 2008, , .		3
22	Design of an modular actuation module for a dual arm robot manipulator. , 2012, , .		3
23	Accelerated life calculation for harmonic reduction of robot arm using Weibull Distribution. , 2012, , .		3
24	Automatic cell production for cellular phone packing using two dual-arm robots. , 2015, , .		3
25	Dynamics superposition method for separating torque components of robot manipulators using sinusoidal trajectories. Journal of Mechanical Science and Technology, 2017, 31, 5505-5513.	1.5	3
26	A large planar camera array for multiple automated guided vehicles localization. , 2008, , .		2
27	Design of software framework for system integration of dual-arm robot. , 2012, , .		2
28	Design and analysis of dual arm robot using dynamic simulation. , 2013, , .		2
29	An example of performing art with robot. , 2016, , .		2
30	Zero-offset calibration using a screw theory. , 2016, , .		2
31	Development of Industrial High-Speed Transfer Parallel Robot. Transactions of the Korean Society of Mechanical Engineers, A, 2013, 37, 1043-1050.	0.2	2
32	Development of simulation framework for ubiquitous robots using RT-middleware. , 2007, , .		1
33	Connection Framework of RT-Middleware and CAMUS for Maintaining Ubiquity between Two Ubiquitous Robot Spaces. Advanced Robotics, 2009, 23, 1703-1723.	1.8	1
34	Structural analysis of a high speed parallel manipulator. , 2013, , .		1
35	Development of simulation model for 6 DOF parallel robot. , 2013, , .		1
36	Performance test equipment design of a 1 DOF joint torque sensor. , 2013, , .		1

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37	Development of redundant shoulder complex of human–like robot driven by flexible wire tendons. Electronics Letters, 2014, 50, 1417-1419.	1.0	1
38	Bolting with the industrial dual-arm robot. , 2014, , .		1
39	A manipulator with counterbalancing mechanism for safety in human-robot collaboration. , 2016, , .		1
40	Development of simulation model for modular and reconfigurable robots. , 2016, , .		1
41	User-Friendly Intuitive Teaching Tool for Easy and Efficient Robot Teaching in Human-Robot Collaboration. Advances in Intelligent Systems and Computing, 2019, , 865-876.	0.6	1
42	Localization of ubiquitous environment based mobile robot. , 2007, , .		0
43	Connection methodology for two ubiquitous robot spaces - connection of RT-Middleware and CAMUS. , 2008, , .		0
44	Design and analysis of high-speed parallel robot. , 2012, , .		0
45	Development of a articulated robot with the direct-teaching function. , 2013, , .		0
46	Development of shoulder complex structure. , 2013, , .		0
47	Analysis of dynamical requirements for a high speed parallel manipulator. , 2013, , .		0
48	Design of robotic cell with multi dual-arm robots. , 2014, , .		0
49	Study on the vibrational motion of the high speed parallel robot. , 2014, , .		0
50	Development of controller for small-sized parallel kinematic machines in assembling mobile IT products. , 2015, , .		0
51	Experimental results of heterogeneous cooperative Bare Bones Particle Swarm Optimization with Gaussian jump for large scale global optimization. , 2015, , .		0
52	Tracking control of 3 DOF parallel robots: Prototype design and experiments. , 2015, , .		0
53	Development of the software to build kinematics for module based robot automatically. , 2016, , .		0
54	Simultaneous identification of kinematic screw and joint compliance of elastic robot manipulators using deflected circular trajectories. , 2017, , .		0

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55	Development of a kinematics library creation software for the module based manipulator. , 2017, , .		0
56	Elbow position control of the redundant industrial dual-arm robot. , 2017, , .		0
57	A study for estimating reaction force of robot arm by using PDSPO. , 2017, , .		0
58	Detachable Robot Teaching Device with Collision Prediction Function for User-Friendly and Intuitive Robot Teaching. Journal of the Korean Society of Manufacturing Technology Engineers, 2021, 30, 22-30.	0.2	0
59	Safe Industrial Manipulator Based on a Counterbalancing Mechanism with Adaptation to the Posture Change of a Robot Base Plane. Journal of the Korean Society of Manufacturing Technology Engineers, 2016, 25, 511-516.	0.2	0
60	Teaching Method Without Work Space Limit for Industrial Robot. Journal of the Korean Society of Manufacturing Technology Engineers, 2016, 25, 492-497.	0.2	0