

Fei Chen

List of Publications by Year in descending order

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888
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinforcement Learning of Manipulation and Grasping Using Dynamical Movement Primitives for a Humanoidlike Mobile Manipulator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 121-131.	3.7	142
2	Optimal Subtask Allocation for Human and Robot Collaboration Within Hybrid Assembly System. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1065-1075.	3.4	114
3	Dexterous Grasping by Manipulability Selection for Mobile Manipulator With Visual Guidance. IEEE Transactions on Industrial Informatics, 2019, 15, 1202-1210.	7.2	81
4	An assembly strategy scheduling method for human and robot coordinated cell manufacturing. International Journal of Intelligent Computing and Cybernetics, 2011, 4, 487-510.	1.6	50
5	Towards Online Estimation of Human Joint Muscular Torque with a Lower Limb Exoskeleton Robot. Applied Sciences (Switzerland), 2018, 8, 1610.	1.3	36
6	Exoskeleton Online Learning and Estimation of Human Walking Intention Based on Dynamical Movement Primitives. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 67-79.	2.6	35
7	In-hand precise twisting and positioning by a novel dexterous robotic gripper for industrial high-speed assembly. , 2014, , .		33
8	A Study on Error Recovery Search Strategies of Electronic Connector Mating for Robotic Fault-Tolerant Assembly. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 257-271.	2.0	30
9	Effective Biopotential Signal Acquisition: Comparison of Different Shielded Drive Technologies. Applied Sciences (Switzerland), 2018, 8, 276.	1.3	26
10	Combined Sensing, Cognition, Learning, and Control for Developing Future Neuro-Robotics Systems: A Survey. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 148-161.	2.6	22
11	Motion Detection Enhanced Control of an Upper Limb Exoskeleton Robot for Rehabilitation Training. International Journal of Humanoid Robotics, 2017, 14, 1650031.	0.6	19
12	Hand Gesture Modeling and Recognition for Human and Robot Interactive Assembly Using Hidden Markov Models. International Journal of Advanced Robotic Systems, 2015, 12, 48.	1.3	18
13	Design of a novel dexterous robotic gripper for in-hand twisting and positioning within assembly automation. Assembly Automation, 2015, 35, 259-268.	1.0	17
14	Neural learning enhanced teleoperation control of Baxter robot using IMU based Motion Capture. , 2016, , .		14
15	Robot Cooking With Stir-Fry: Bimanual Non-Prehensile Manipulation of Semi-Fluid Objects. IEEE Robotics and Automation Letters, 2022, 7, 5159-5166.	3.3	14
16	A framework of teleoperated and stereo vision guided mobile manipulation for industrial automation. , 2016, , .		13
17	The Exoskeleton Balance Assistance Control Strategy Based on Single Step Balance Assessment. Applied Sciences (Switzerland), 2019, 9, 884.	1.3	12
18	Bidirectional Human-Robot Bimanual Handover of Big Planar Object With Vertical Posture. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1180-1191.	3.4	12

#	ARTICLE	IF	CITATIONS
19	Evolutionary artificial potential field method based manipulator path planning for safe robotic assembly. , 2009, , .		9
20	A novel bio-inspired modular gripper for in-hand manipulation. , 2015, , .		9
21	Grapevine Winter Pruning Automation: On Potential Pruning Points Detection through 2D Plant Modeling using Grapevine Segmentation. , 2021, , .		9
22	Hybrid vision-force guided fault tolerant robotic assembly for electric connectors. , 2009, , .		8
23	i-Hand: An intelligent robotic hand for fast and accurate assembly in electronic manufacturing. , 2012, , .		8
24	Design and analysis of a whole-body controller for a velocity controlled robot mobile manipulator. Science China Information Sciences, 2020, 63, 1.	2.7	8
25	Assembly strategy modeling and selection for human and robot coordinated cell assembly. , 2011, , .		7
26	Learning Robotic Ultrasound Scanning Skills via Human Demonstrations and Guided Explorations. , 2021, , .		7
27	A genetic algorithm for subtask allocation within human and robot coordinated assembly. , 2012, , .		6
28	Design of an industrial robotic gripper for precise twisting and positioning in high-speed assembly. , 2013, , .		5
29	Special Feature on Bio-Inspired Robotics. Applied Sciences (Switzerland), 2018, 8, 817.	1.3	5
30	A novel active balance assistive control strategy based on virtual stiffness model of XCoM. Assembly Automation, 2019, 40, 132-142.	1.0	5
31	Robotic wiring harness assembly system for fault-tolerant electric connectors mating. , 2010, , .		4
32	Theoretical and kinematic solution of high reconfigurable grasping for industrial manufacturing. , 2013, , .		4
33	Theoretical and Kinematic Solution of High Reconfigurable Grasping for Industrial Manufacturing. Procedia Manufacturing, 2017, 11, 265-274.	1.9	4
34	A Unified Active Assistance Control Framework of Hip Exoskeleton for Walking and Balance Assistance. , 2019, , .		4
35	Passive Bimanual Skills Learning From Demonstration With Motion Graph Attention Networks. IEEE Robotics and Automation Letters, 2022, 7, 4917-4923.	3.3	4
36	Real time posture control for stability improvement of intelligent cane robot. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
37	Human intention estimation algorithm design for robot in human and robot cooperated cell assembly. , 2010, , .		2
38	HoPE: Horizontal Plane Extractor for Cluttered 3D Scenes. Sensors, 2018, 18, 3214.	2.1	2
39	Conditions for active assistance control of exoskeleton robot. , 2020, , .		2
40	Whole-Body Control on Non-holonomic Mobile Manipulation for Grapevine Winter Pruning Automation. , 2021, , .		2
41	Deformable PCB based on connector mating method by using iHand for improving HRC performance efficiency. , 2011, , .		0
42	Depth Generation Network: Estimating Real World Depth from Stereo and Depth Images*. , 2019, , .		0
43	Pattern Analysis and Parameters Optimization of Dynamic Movement Primitives for Learning Unknown Trajectories. , 2020, , .		0