

# Jianwei Zhang

## List of Publications by Year in descending order

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56  
papers

1,196  
citations

687363

13  
h-index

552781

26  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Estimation for an Extended Dynamic Parameter Set of Serial Manipulators and Unmodeled Dynamics Compensation. IEEE/ASME Transactions on Mechatronics, 2022, 27, 962-973.	5.8	8
2	Generalization of Robot Force-Relevant Skills Through Adapting Compliant Profiles. IEEE Robotics and Automation Letters, 2022, 7, 1055-1062.	5.1	7
3	Multifingered Grasping Based on Multimodal Reinforcement Learning. IEEE Robotics and Automation Letters, 2022, 7, 1174-1181.	5.1	10
4	An Automatic Path Planning Method of Pedicle Screw Placement Based on Preoperative CT Images. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 403-413.	3.2	5
5	Context-Aware Multi-Scale Aggregation Network for Congested Crowd Counting. Sensors, 2022, 22, 3233.	3.8	1
6	SRNet: Scale-Aware Representation Learning Network for Dense Crowd Counting. IEEE Access, 2021, 9, 136032-136044.	4.2	6
7	An adaptive planning framework for dexterous robotic grasping with grasp type detection. Robotics and Autonomous Systems, 2021, 140, 103727.	5.1	7
8	Automated <i>In Situ</i> Placing of Metal Components Into 3-D Printed FFF Objects. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1886-1894.	5.8	1
9	Detection and Segmentation of Unlearned Objects in Unknown Environment. IEEE Transactions on Industrial Informatics, 2021, 17, 6211-6220.	11.3	5
10	Adaptive Asymptotic Tracking Control Without Singularity for a Class of Uncertain Quadrotors With Thrust Saturation. IEEE Access, 2021, 9, 104612-104625.	4.2	1
11	Learning compliant grasping and manipulation by teleoperation with adaptive force control. , 2021, , .		7
12	Cutting Depth Monitoring Based on Milling Force for Robot-Assisted Laminectomy. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2-14.	5.2	31
13	Model-Based Compensation of Moving Tissue for State Recognition in Robotic-Assisted Pedicle Drilling. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 463-473.	3.2	4
14	Vision-based Teleoperation of Shadow Dexterous Hand using End-to-End Deep Neural Network. , 2019, , .		45
15	3D Printing of Nonplanar Layers for Smooth Surface Generation. , 2019, , .		40
16	PointNetGPD: Detecting Grasp Configurations from Point Sets. , 2019, , .		177
17	Memetic Evolution for Generic Full-Body Inverse Kinematics in Robotics and Animation. IEEE Transactions on Evolutionary Computation, 2019, 23, 406-420.	10.0	46
18	Learning Physical Human-Robot Interaction With Coupled Cooperative Primitives for a Lower Exoskeleton. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1566-1574.	5.2	65

#	ARTICLE	IF	CITATIONS
19	Robot-Assisted Decompressive Laminectomy Planning Based on 3D Medical Image. IEEE Access, 2018, 6, 22557-22569.	4.2	33
20	Cost Functions to Specify Full-Body Motion and Multi-Goal Manipulation Tasks. , 2018, , .		25
21	Localization Framework for Real-Time UAV Autonomous Landing: An On-Ground Deployed Visual Approach. Sensors, 2017, 17, 1437.	3.8	26
22	Objectness ranking by uniform Bayesian model with multimodal and global cues. IET Computer Vision, 2016, 10, 736-745.	2.0	2
23	Haptic and visual perception in in-hand manipulation system. , 2015, , .		5
24	A ground-based multi-sensor system for autonomous landing of a fixed wing UAV. , 2015, , .		9
25	Caterpillar-Like Climbing Method Incorporating a Dual-Mode Optimal Controller. IEEE Transactions on Automation Science and Engineering, 2015, 12, 1492-1503.	5.2	5
26	Integration of sensory feedback into CPG model for locomotion control of caterpillar-like robot. , 2015, , .		2
27	Analysis and Design of Asymmetric Oscillation for Caterpillar-Like Locomotion. Journal of Bionic Engineering, 2015, 12, 190-203.	5.0	18
28	Vision-based autonomous landing system for unmanned aerial vehicle: A survey. , 2014, , .		48
29	A ground-based optical system for autonomous landing of a fixed wing UAV. , 2014, , .		26
30	PEIS, MIRA, and ROS: Three frameworks, one service robot &#x2014; A tale of integration. , 2014, , .		6
31	Development of adaptive locomotion of a caterpillar-like robot based on a sensory feedback CPG model. Advanced Robotics, 2014, 28, 389-401.	1.8	24
32	Design of neural circuit for sidewinding of snake-like robots. , 2014, , .		2
33	An approach for adaptive limbless locomotion using a cpg-based reflex mechanism. Journal of Bionic Engineering, 2014, 11, 389-399.	5.0	16
34	State Recognition of Pedicle Drilling With Force Sensing in a Robotic Spinal Surgical System. IEEE/ASME Transactions on Mechatronics, 2014, 19, 357-365.	5.8	64
35	Precision grasp synergies for dexterous robotic hands. , 2013, , .		24
36	A novel mechanism for caterpillar-like locomotion using asymmetric oscillation. , 2011, , .		11

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37	Fast plane detection for SLAM from noisy range images in both structured and unstructured environments. , 2011, , .		26
38	A cloud computing approach to complex robot vision tasks using smart camera systems. , 2010, , .		16
39	Task oriented control of smart camera systems in the context of mobile service robots. , 2009, , .		2
40	An autonomous docking method based on ultrasonic sensors for self-reconfigurable mobile robot. , 2009, , .		3
41	Docking manipulator for a reconfigurable mobile robot system. , 2009, , .		1
42	Design and Realization of a Novel Modular Climbing Caterpillar Using Low-Frequency Vibrating Passive Suckers. Advanced Robotics, 2009, 23, 889-906.	1.8	10
43	An intelligent surveillance system based on RANSAC algorithm. , 2009, , .		2
44	Color image segmentation in HSI space for automotive applications. Journal of Real-Time Image Processing, 2008, 3, 311-322.	3.5	84
45	Control Hierarchy Realization and Cleaning Trajectory Evaluation of a Wall Cleaning Robot. , 2006, , .		2
46	Sky Cleaner 3: a real pneumatic climbing robot for glass-wall cleaning. IEEE Robotics and Automation Magazine, 2006, 13, 32-41.	2.0	131
47	Realization of a Service Robot for Cleaning Spherical Surfaces. International Journal of Advanced Robotic Systems, 2005, 2, 7.	2.1	31
48	Design of a climbing robot for cleaning spherical surfaces. , 2005, , .		5
49	Towards automatic nanomanipulation at the atomic scale. , 2005, , .		1
50	A two-arm situated artificial communicator for human-robot cooperative assembly. IEEE Transactions on Industrial Electronics, 2003, 50, 651-658.	7.9	27
51	Integration of gaze and gesture detection in nature language instructing of robot in an assembly scenario. , 0, , .		0
52	A service robot for automating the sample management in biotechnological cell cultivations. , 0, , .		9
53	A multimodal interface to situated assembly robot systems. , 0, , .		0
54	Extracting road features from color images using a cognitive approach. , 0, , .		23

#	ARTICLE	IF	CITATIONS
55	A novel approach to pneumatic position servo control of a glass wall cleaning robot. , 0, , .		7
56	High accuracy object detection and following in color images for automotive applications. , 0, , .		4