

Zhijiang Du

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

519

citations

10

h-index

18

g-index

120

ext. papers

736

ext. citations

3.7

avg, IF

4.15

L-index

#	Paper	IF	Citations
82	Handheld robotic needle holder training: slower but better. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2021 , 35, 1667-1674	5.2	1
81	Construction of Controller Model of Notch Continuum Manipulator for Laryngeal Surgery Based on Hybrid Method. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1022-1032	5.5	7
80	Precise laminae segmentation based on neural network for robot-assisted decompressive laminectomy. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 209, 106333	6.9	1
79	Design and Control of a Passive Compliant Piezo-Actuated Micro-Gripper With Hybrid Flexure Hinges. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11168-11177	8.9	10
78	Friction modeling and compensation for haptic master manipulator based on deep Gaussian process. <i>Mechanism and Machine Theory</i> , 2021 , 166, 104480	4	2
77	Grinding trajectory generator in robot-assisted laminectomy surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 485-494	3.9	1
76	System Design and Monitoring Method of Robot Grinding for Friction Stir Weld Seam. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2903	2.6	2
75	A Robot-Assisted Spine Surgery System Based on Intraoperative 2D Fluoroscopy Navigation. <i>IEEE Access</i> , 2020 , 8, 51786-51802	3.5	6
74	Design and Kinematic Modeling of a Notch Continuum Manipulator for Laryngeal Surgery. <i>International Journal of Control, Automation and Systems</i> , 2020 , 18, 2966-2973	2.9	10
73	Handheld laparoscopic robotized instrument: progress or challenge?. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2020 , 34, 719-727	5.2	4
72	A PSO-Optimized Fuzzy Reinforcement Learning Method for Making the Minimally Invasive Surgical Arm Cleverer. <i>IEEE Access</i> , 2019 , 7, 48655-48670	3.5	8
71	HEALPix-IA: A Global Registration Algorithm for Initial Alignment. <i>Sensors</i> , 2019 , 19,	3.8	3
70	Hierarchical Human Machine Interaction Learning for a Lower Extremity Augmentation Device. <i>International Journal of Social Robotics</i> , 2019 , 11, 123-139	4	8
69	A Robust Multi-Circle Detector Based on Horizontal and Vertical Search Analysis Fitting with Tangent Direction. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2019 , 33, 19540-19553	4.1	5
68	Mechanism Design and Optimization of a Haptic Master Manipulator for Laparoscopic Surgical Robots. <i>IEEE Access</i> , 2019 , 7, 147808-147824	3.5	8
67	Round Trip Time Prediction Using Recurrent Neural Networks With Minimal Gated Unit. <i>IEEE Communications Letters</i> , 2019 , 23, 584-587	3.8	8
66	Variable Stiffness Model Construction and Simulation Verification of Coupled Notch Continuum Manipulator. <i>IEEE Access</i> , 2019 , 7, 154761-154769	3.5	5

65	An automated approach for machining allowance evaluation of casting parts. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 32, 1043-1052	4.3	4
64	Master-slave motion alignment for an open surgical console. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2019 , 15, e1974	2.9	1
63	Locomotion Stability Analysis of Lower Extremity Augmentation Device. <i>Journal of Bionic Engineering</i> , 2019 , 16, 99-114	2.7	4
62	Preoperative optimization of the surgical robot considering internal diversity of workspace. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018 , 232, 1091-1107	1.3	0
61	Design and Evaluation of FBG-Based Tension Sensor in Laparoscope Surgical Robots. <i>Sensors</i> , 2018 , 18,	3.8	18
60	A Friction-Inertial-Based Rotary Motor: Design, Modelling and Experiments. <i>Materials</i> , 2018 , 11,	3.5	9
59	Probabilistic Sensitivity Amplification Control for Lower Extremity Exoskeleton. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 525	2.6	9
58	Intrinsic Sensing and Evolving Internal Model Control of Compact Elastic Module for a Lower Extremity Exoskeleton. <i>Sensors</i> , 2018 , 18,	3.8	8
57	Real-Time Curvature Detection of a Flexible Needle with a Bevel Tip. <i>Sensors</i> , 2018 , 18,	3.8	4
56	Disturbance Observer Based Sliding Mode Control for Robot-Assisted Minimally Invasive Surgical System with Stochastic Time Delay 2018 ,		1
55	Robust Radiation Sources Localization Based on the Peak Suppressed Particle Filter for Mixed Multi-Modal Environments. <i>Sensors</i> , 2018 , 18,	3.8	5
54	A Robust Circular Control Point Detector for Bi-Planar Spine Surgery Navigation System. <i>IEEE Access</i> , 2018 , 6, 71084-71098	3.5	1
53	Singularity Analysis for the Existing Closed-Form Solutions of the Hand-Eye Calibration. <i>IEEE Access</i> , 2018 , 6, 75407-75421	3.5	10
52	Lower Limb Exoskeleton Hybrid Phase Control Based on Fuzzy Gain Sliding Mode Controller 2018 ,		1
51	High Precision Data-driven Force Control of Compact Elastic Module for a Lower Extremity Augmentation Device. <i>Journal of Bionic Engineering</i> , 2018 , 15, 805-819	2.7	3
50	Active disturbance rejection control based human gait tracking for lower extremity rehabilitation exoskeleton. <i>ISA Transactions</i> , 2017 , 67, 389-397	5.5	67
49	A two-dimensional nano-positioner: Design, modelling and experiments. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 48, 167-173	9.2	6
48	Development and analysis of an electrically actuated lower extremity assistive exoskeleton. <i>Journal of Bionic Engineering</i> , 2017 , 14, 272-283	2.7	29

47	A new forecasting kinematic algorithm of automatic navigation for a laparoscopic minimally invasive surgical robotic system. <i>Robotica</i> , 2017 , 35, 1192-1222	2.1	7
46	A Novel Position Compensation Scheme for Cable-Pulley Mechanisms Used in Laparoscopic Surgical Robots. <i>Sensors</i> , 2017 , 17,	3.8	13
45	Variable Admittance Control Based on Fuzzy Reinforcement Learning for Minimally Invasive Surgery Manipulator. <i>Sensors</i> , 2017 , 17,	3.8	24
44	Gait tracking for lower extremity exoskeleton based on sliding mode control with CMAC compensation 2016 ,		1
43	Error Analysis and Experimental Study of a Bi-Planar Parallel Mechanism in a Pedicle Screw Robot System. <i>Sensors</i> , 2016 , 16,	3.8	2
42	Design and kinematic analysis of a hybrid manipulator for spine surgery 2016 ,		2
41	Obstacle Avoidance Path Planning of Planar Redundant Manipulators Using Workspace Density. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 9	1.4	7
40	Design and kinematic analysis of a parallel robot with Remote Center of Motion for Minimally Invasive Surgery 2015 ,		3
39	An under-actuated manipulation controller based on Workspace Analysis and Gaussian Processes 2015 ,		5
38	Dimensional optimization of a minimally invasive surgical robot system based on NSGA-II algorithm. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 168781401456854	1.2	4
37	Towards deformation control of soft tissues based on visual servo for flexible needle insertion applications 2015 ,		1
36	Development of Search-and-rescue Robots for Underground Coal Mine Applications. <i>Journal of Field Robotics</i> , 2014 , 31, 386-407	6.7	41
35	Research on obstacle negotiation capability of tracked robot based on terramechanics 2014 ,		1
34	A Piezo-Actuated High-Precision Flexible Parallel Pointing Mechanism: Conceptual Design, Development, and Experiments. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 131-137	6.5	43
33	Kinematics modeling for a kinematic-mechanics coupling continuum manipulator 2014 ,		1
32	A fuzzy logic system tuned with particle swarm optimization for gait segmentation using insole measured ground reaction force 2014 ,		1
31	YARC [A universal kinematic controller for serial robots based on PMAC and MoveIt! 2014 ,		1
30	A ROS/Gazebo based method in developing virtual training scene for upper limb rehabilitation 2014 ,		4

29	U-Pendant: A universal teach pendant for serial robots based on ROS 2014 ,		3
28	A new kinematics method based on a dynamic visual window for a surgical robot. <i>Robotica</i> , 2014 , 32, 571-589	2.1	7
27	The tip interface mechanics modeling of a bevel-tip flexible needle insertion 2012 ,		2
26	Design and optimization of a haptic manipulator using series-parallel mechanism 2012 ,		3
25	Stability analysis of a tracked mobile robot in climbing stairs process 2012 ,		3
24	A simulation method of soft tissue cutting with haptics 2012 ,		1
23	Development of a robot system assisting artificial cervical disc replacement surgery 2010 ,		2
22	Laser range finder based moving object tracking and avoidance in dynamic environment 2010 ,		2
21	Design and realization of an interactive medical images three dimension visualization system 2010 ,		1
20	Three-dimensional geometric modeling of the spine based on reverse engineering technology 2010 ,		1
19	FPGA-Based Control System for 6-UPS Medical Parallel Robot 2010 ,		1
18	Design and analysis of a 6-DOF parallel robot used in artificial cervical disc replacement surgery 2010 ,		3
17	Force-driven robotic drag control for freehand 3D ultrasound-guided robot-assisted percutaneous surgery 2009 ,		2
16	Indoor dangerous gas environment detected by mobile robot 2009 ,		2
15	Track-terrain interaction analysis for tracked mobile robot 2008 ,		2
14	Analysis of a New Workspace of the Hexaglide as a Motion Simulator for Fuel Tanker Trucks 2007 ,		1
13	An Intelligent Home Environment Inspecting Robot 2007 ,		1
12	Obstacle Performance Analysis of Mine Research Robot Based on Terramechanics 2007 ,		2

11	Kinematics analysis for obstacle-climbing performance of a rescue robot 2007,	4
10	A Novel Approach to Deriving the Unit-Homogeneous Jacobian Matrices of Mechanisms 2007,	5
9	Dynamic Load Effect on Tracked Robot Obstacle Performance 2007,	13
8	Intelligent Detection of Bumps in a Mobile Robot 2006,	1
7	Model and Simulation Research of Tissue Based CT Images 2006,	2
6	sEMG Based Control for 5 DOF Upper Limb Rehabilitation Robot System 2006,	8
5	A Compliant Ultra-Precision 6-DOF Parallel Positioner Based on the Coarse/Fine Dual Architecture 2006,	1
4	Stiffness influence atlases of a novel flexure hinge-based parallel mechanism with large workspace 2005,	6
3	A novel robot-assisted bonesetting system	2
2	Conceptional Design and Kinematics Modeling of a Wide-Range Flexure Hinge-Based Parallel Manipulator	1
1	A large workspace macro/micro dual parallel mechanism with wide-range flexure hinges	2