

Zhijiang Du

List of Publications by Citations

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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 | Active disturbance rejection control based human gait tracking for lower extremity rehabilitation exoskeleton. <i>ISA Transactions</i> , 2017 , 67, 389-397 | 5.5 | 67 |
| 81 | 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 |
| 80 | Development of Search-and-rescue Robots for Underground Coal Mine Applications. <i>Journal of Field Robotics</i> , 2014 , 31, 386-407 | 6.7 | 41 |
| 79 | Development and analysis of an electrically actuated lower extremity assistive exoskeleton. <i>Journal of Bionic Engineering</i> , 2017 , 14, 272-283 | 2.7 | 29 |
| 78 | Variable Admittance Control Based on Fuzzy Reinforcement Learning for Minimally Invasive Surgery Manipulator. <i>Sensors</i> , 2017 , 17, | 3.8 | 24 |
| 77 | Design and Evaluation of FBG-Based Tension Sensor in Laparoscope Surgical Robots. <i>Sensors</i> , 2018 , 18, | 3.8 | 18 |
| 76 | A Novel Position Compensation Scheme for Cable-Pulley Mechanisms Used in Laparoscopic Surgical Robots. <i>Sensors</i> , 2017 , 17, | 3.8 | 13 |
| 75 | Dynamic Load Effect on Tracked Robot Obstacle Performance 2007 , | | 13 |
| 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 | Singularity Analysis for the Existing Closed-Form Solutions of the Hand-Eye Calibration. <i>IEEE Access</i> , 2018 , 6, 75407-75421 | 3.5 | 10 |
| 72 | 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 |
| 71 | A Friction-Inertial-Based Rotary Motor: Design, Modelling and Experiments. <i>Materials</i> , 2018 , 11, | 3.5 | 9 |
| 70 | Probabilistic Sensitivity Amplification Control for Lower Extremity Exoskeleton. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 525 | 2.6 | 9 |
| 69 | 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 |
| 68 | Intrinsic Sensing and Evolving Internal Model Control of Compact Elastic Module for a Lower Extremity Exoskeleton. <i>Sensors</i> , 2018 , 18, | 3.8 | 8 |
| 67 | Hierarchical Human Machine Interaction Learning for a Lower Extremity Augmentation Device. <i>International Journal of Social Robotics</i> , 2019 , 11, 123-139 | 4 | 8 |
| 66 | Mechanism Design and Optimization of a Haptic Master Manipulator for Laparoscopic Surgical Robots. <i>IEEE Access</i> , 2019 , 7, 147808-147824 | 3.5 | 8 |

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|----|--|-----|---|
| 65 | sEMG Based Control for 5 DOF Upper Limb Rehabilitation Robot System 2006, | | 8 |
| 64 | Round Trip Time Prediction Using Recurrent Neural Networks With Minimal Gated Unit. <i>IEEE Communications Letters</i> , 2019 , 23, 584-587 | 3.8 | 8 |
| 63 | 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 |
| 62 | 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 |
| 61 | A new kinematics method based on a dynamic visual window for a surgical robot. <i>Robotica</i> , 2014 , 32, 571-589 | 2.1 | 7 |
| 60 | 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 |
| 59 | A two-dimensional nano-positioner: Design, modelling and experiments. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 48, 167-173 | 9.2 | 6 |
| 58 | A Robot-Assisted Spine Surgery System Based on Intraoperative 2D Fluoroscopy Navigation. <i>IEEE Access</i> , 2020 , 8, 51786-51802 | 3.5 | 6 |
| 57 | Stiffness influence atlases of a novel flexure hinge-based parallel mechanism with large workspace 2005, | | 6 |
| 56 | 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 ^{1,1} | | 5 |
| 55 | An under-actuated manipulation controller based on Workspace Analysis and Gaussian Processes 2015, | | 5 |
| 54 | A Novel Approach to Deriving the Unit-Homogeneous Jacobian Matrices of Mechanisms 2007, | | 5 |
| 53 | Variable Stiffness Model Construction and Simulation Verification of Coupled Notch Continuum Manipulator. <i>IEEE Access</i> , 2019 , 7, 154761-154769 | 3.5 | 5 |
| 52 | Robust Radiation Sources Localization Based on the Peak Suppressed Particle Filter for Mixed Multi-Modal Environments. <i>Sensors</i> , 2018 , 18, | 3.8 | 5 |
| 51 | Real-Time Curvature Detection of a Flexible Needle with a Bevel Tip. <i>Sensors</i> , 2018 , 18, | 3.8 | 4 |
| 50 | 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 |
| 49 | A ROS/Gazebo based method in developing virtual training scene for upper limb rehabilitation 2014, | | 4 |
| 48 | Kinematics analysis for obstacle-climbing performance of a rescue robot 2007, | | 4 |

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| 47 | 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 |
| 46 | Locomotion Stability Analysis of Lower Extremity Augmentation Device. <i>Journal of Bionic Engineering</i> , 2019 , 16, 99-114 | 2.7 | 4 |
| 45 | Handheld laparoscopic robotized instrument: progress or challenge?. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2020 , 34, 719-727 | 5.2 | 4 |
| 44 | HEALPix-IA: A Global Registration Algorithm for Initial Alignment. <i>Sensors</i> , 2019 , 19, | 3.8 | 3 |
| 43 | Design and kinematic analysis of a parallel robot with Remote Center of Motion for Minimally Invasive Surgery 2015 , | | 3 |
| 42 | U-Pendant: A universal teach pendant for serial robots based on ROS 2014 , | | 3 |
| 41 | Design and analysis of a 6-DOF parallel robot used in artificial cervical disc replacement surgery 2010 , | | 3 |
| 40 | Design and optimization of a haptic manipulator using series-parallel mechanism 2012 , | | 3 |
| 39 | Stability analysis of a tracked mobile robot in climbing stairs process 2012 , | | 3 |
| 38 | 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 |
| 37 | System Design and Monitoring Method of Robot Grinding for Friction Stir Weld Seam. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2903 | 2.6 | 2 |
| 36 | The tip interface mechanics modeling of a bevel-tip flexible needle insertion 2012 , | | 2 |
| 35 | Development of a robot system assisting artificial cervical disc replacement surgery 2010 , | | 2 |
| 34 | Laser range finder based moving object tracking and avoidance in dynamic environment 2010 , | | 2 |
| 33 | Force-driven robotic drag control for freehand 3D ultrasound-guided robot-assisted percutaneous surgery 2009 , | | 2 |
| 32 | Indoor dangerous gas environment detected by mobile robot 2009 , | | 2 |
| 31 | Track-terrain interaction analysis for tracked mobile robot 2008 , | | 2 |
| 30 | Model and Simulation Research of Tissue Based CT Images 2006 , | | 2 |

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| 29 | Obstacle Performance Analysis of Mine Research Robot Based on Terramechanics 2007, | | 2 |
| 28 | A novel robot-assisted bonesetting system | | 2 |
| 27 | A large workspace macro/micro dual parallel mechanism with wide-range flexure hinges | | 2 |
| 26 | 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 |
| 25 | Design and kinematic analysis of a hybrid manipulator for spine surgery 2016, | | 2 |
| 24 | Friction modeling and compensation for haptic master manipulator based on deep Gaussian process. <i>Mechanism and Machine Theory</i> , 2021 , 166, 104480 | 4 | 2 |
| 23 | Gait tracking for lower extremity exoskeleton based on sliding mode control with CMAC compensation 2016, | | 1 |
| 22 | Research on obstacle negotiation capability of tracked robot based on terramechanics 2014, | | 1 |
| 21 | Kinematics modeling for a kinematic-mechanics coupling continuum manipulator 2014, | | 1 |
| 20 | A fuzzy logic system tuned with particle swarm optimization for gait segmentation using insole measured ground reaction force 2014, | | 1 |
| 19 | Towards deformation control of soft tissues based on visual servo for flexible needle insertion applications 2015, | | 1 |
| 18 | YARC ̈A universal kinematic controller for serial robots based on PMAC and Movelt! 2014, | | 1 |
| 17 | Design and realization of an interactive medical images three dimension visualization system 2010, | | 1 |
| 16 | Three-dimensional geometric modeling of the spine based on reverse engineering technology 2010 | | 1 |
| 15 | FPGA-Based Control System for 6-UPS Medical Parallel Robot 2010, | | 1 |
| 14 | A simulation method of soft tissue cutting with haptics 2012, | | 1 |
| 13 | Analysis of a New Workspace of the Hexaglide as a Motion Simulator for Fuel Tanker Trucks 2007, | | 1 |
| 12 | Intelligent Detection of Bumps in a Mobile Robot 2006, | | 1 |

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| 11 | An Intelligent Home Environment Inspecting Robot 2007 , | | 1 |
| 10 | A Compliant Ultra-Precision 6-DOF Parallel Positioner Based on the Coarse/Fine Dual Architecture 2006 , | | 1 |
| 9 | Conceptional Design and Kinematics Modeling of a Wide-Range Flexure Hinge-Based Parallel Manipulator | | 1 |
| 8 | 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 |
| 7 | Handheld robotic needle holder training: slower but better. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2021 , 35, 1667-1674 | 5.2 | 1 |
| 6 | Disturbance Observer Based Sliding Mode Control for Robot-Assisted Minimally Invasive Surgical System with Stochastic Time Delay 2018 , | | 1 |
| 5 | A Robust Circular Control Point Detector for Bi-Planar Spine Surgery Navigation System. <i>IEEE Access</i> , 2018 , 6, 71084-71098 | 3.5 | 1 |
| 4 | Lower Limb Exoskeleton Hybrid Phase Control Based on Fuzzy Gain Sliding Mode Controller 2018 , | | 1 |
| 3 | 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 |
| 2 | 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 |
| 1 | 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 |