

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.

92
papers

505
citations

10
h-index

18
g-index

127
ext. papers

720
ext. citations

3.1
avg, IF

4.64
L-index

#	Paper	IF	Citations
92	Steerable catheters in minimally invasive vascular surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2009 , 5, 381-91	2.9	97
91	Event-Triggered Robust Fuzzy Adaptive Finite-Time Control of Nonlinear Systems With Prescribed Performance. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 1460-1471	8.3	70
90	Design and Experiments of a Novel Hydraulic Wheel-Legged Robot (WLR) 2018 ,		16
89	Leg Trajectory Planning for Quadruped Robots with High-Speed Trot Gait. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1508	2.6	12
88	Design and development of a hand rehabilitation robot for patient-cooperative therapy following stroke 2011 ,		12
87	Integrating Compliant Actuator and Torque Limiter Mechanism for Safe Home-Based Upper-Limb Rehabilitation Device Design. <i>Journal of Medical and Biological Engineering</i> , 2017 , 37, 357-364	2.2	11
86	A fast two-step marker-controlled watershed image segmentation method 2012 ,		11
85	New Results on Fuzzy Integral Sliding Mode Control of Nonlinear Singularly Perturbed Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	11
84	Variable stiffness control of series elastic actuated biped locomotion. <i>Intelligent Service Robotics</i> , 2018 , 11, 225-235	2.6	10
83	Coordinative Motion-Based Bilateral Rehabilitation Training System with Exoskeleton and Haptic Devices for Biomedical Application. <i>Micromachines</i> , 2018 , 10,	3.3	10
82	Brain-derived neurotrophic factor alleviates diabetes mellitus-accelerated atherosclerosis by promoting M2 polarization of macrophages through repressing the STAT3 pathway. <i>Cellular Signalling</i> , 2020 , 70, 109569	4.9	9
81	A novel modelling and simulation method of hip joint surface contact stress. <i>Bioengineered</i> , 2017 , 8, 1055-112	5.1	9
80	Joint Stiffness Identification and Deformation Compensation of Serial Robots Based on Dual Quaternion Algebra. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 65	2.6	8
79	A network biology approach to discover the molecular biomarker associated with hepatocellular carcinoma. <i>BioMed Research International</i> , 2014 , 2014, 278956	3	8
78	Real-time motion planning for robot manipulators in unknown environments using infrared sensors. <i>Robotica</i> , 2007 , 25, 201-211	2.1	8
77	Design of a new haptic device and experiments in minimally invasive surgical robot. <i>Computer Assisted Surgery</i> , 2017 , 22, 240-250	1.8	7
76	A non-linear, anisotropic mass spring model based simulation for soft tissue deformation 2014 ,		7

75	Computer-assisted automatic localization of the human pedunculo-pontine nucleus in T1-weighted MR images: a preliminary study. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2009 , 5, 309-18	2.9	7
74	Development of a New Medical Robot System for Minimally Invasive Surgery. <i>IEEE Access</i> , 2020 , 8, 1441365-1441755	3.5	5
73	Lightweight Deep Neural Network for Real-Time Instrument Semantic Segmentation in Robot Assisted Minimally Invasive Surgery. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3870-3877	4.2	7
72	Design of a Novel Elastic Torque Sensor for Hand Injuries Rehabilitation Based on Bowden Cable. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 3184-3192	5.2	7
71	A novel 4-DOF surgical instrument with modular joints and 6-Axis Force sensing capability. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017 , 13, e1751	2.9	6
70	A Telepresence System for Therapist-in-the-Loop Training for Elbow Joint Rehabilitation. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1710	2.6	6
69	Dynamic Visual Tracking for Robot Manipulator Using Adaptive Fading Kalman Filter. <i>IEEE Access</i> , 2020 , 8, 35113-35126	3.5	6
68	Experiments and kinematics analysis of a hand rehabilitation exoskeleton with circuitous joints. <i>Bio-Medical Materials and Engineering</i> , 2015 , 26 Suppl 1, S665-72	1	5
67	Path Planning of Cooperative Robotics and Robot Team 2006 ,		5
66	Variable stiffness control and implementation of hydraulic SEA based on virtual spring leg 2016 ,		5
65	WLR-II, a Hose-less Hydraulic Wheel-legged Robot 2019 ,		5
64	CAM-FoC: A High Accuracy Lightweight Deep Neural Network for Grip Force Measurement of Elongated Surgical Instrument. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	5
63	Visual-based autonomous field of view control of laparoscope with safety-RCM constraints for semi-autonomous surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020 , 16, e2079	2.9	4
62	Improved surgical instruments without coupled motion used in minimally invasive surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018 , 14, e1942	2.9	4
61	Position Planning for Laparoscopic Robot in Minimally Invasive Surgery 2007 ,		4
60	Design and development of a portable exoskeleton based CPM machine for rehabilitation of hand injuries 2007 ,		4
59	Master-slave real-time control strategy in Cartesian space for a novel surgical robot for minimally invasive surgery. <i>Computer Assisted Surgery</i> , 2016 , 21, 69-77	1.8	4
58	A human-machine interface software based on android system for hand rehabilitation robot 2015 ,		3

57	Control system design for a novel minimally invasive surgical robot. <i>Computer Assisted Surgery</i> , 2016 , 21, 45-53	1.8	3
56	3-DOF bionic parallel mechanism design and analysis for a snake-like robot 2016 ,		3
55	Design and optimization of remote center motion mechanism of Minimally Invasive Surgical robotics 2013 ,		3
54	Experimental study of static and dynamic characteristics of a miniature 6-axis force and torque sensor 2015 ,		3
53	A human-robot interaction modeling approach for hand rehabilitation exoskeleton using biomechanical technique 2015 ,		3
52	Approach movement of redundant manipulator using stereo vision 2014 ,		3
51	Research on Workspace of A Two-arm Surgical Robot 2007 ,		3
50	Adaptive Fusion-Based Autonomous Laparoscope Control for Semi-Autonomous Surgery. <i>Journal of Medical Systems</i> , 2019 , 44, 4	5.1	3
49	Model Decoupling and Control of the Wheeled Humanoid Robot Moving in Sagittal Plane 2019 ,		3
48	A Q-learning approach based on human reasoning for navigation in a dynamic environment. <i>Robotica</i> , 2019 , 37, 445-468	2.1	3
47	Magnetic resonance imaging and transrectal ultrasound prostate image segmentation based on improved level set for robotic prostate biopsy navigation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021 , 17, 1-14	2.9	3
46	A Portable Device for Hand Rehabilitation with Force Cognition: Design, Interaction and Experiment. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021 , 1-1	3	3
45	Design and Experiment Evaluation of a Magneto-Rheological Damper for the Legged Robot 2018 ,		3
44	Automatic Extraction of the Centerline of Corpus Callosum from Segmented Mid-Sagittal MR Images. <i>Computational and Mathematical Methods in Medicine</i> , 2018 , 2018, 4014213	2.8	3
43	Multi-cameras visual servoing for dual-arm coordinated manipulation. <i>Robotica</i> , 2017 , 35, 2218-2237	2.1	2
42	Dimensional synthesis and concept design of a novel minimally invasive surgical robot. <i>Robotica</i> , 2018 , 36, 715-737	2.1	2
41	Adaptive dynamic surface control for vision-based stabilization of an uncertain electrically driven nonholonomic mobile robot. <i>Robotica</i> , 2016 , 34, 449-467	2.1	2
40	How do the compliant legs affect walking stability 2017 ,		2

39	Fuzzy based velocity constraints of virtual fixtures in tele-robotic surgery 2014 ,		2
38	A dynamic model for the active catheter actuated by the shape memory alloy coil spring 2009 ,		2
37	A method of target recognition from remote sensing images 2009 ,		2
36	Development of an Embedded Control Platform of a Continuous Passive Motion Machine 2006 ,		2
35	Preoperative Planning Algorithm for Robot-Assisted Minimally Invasive Cholecystectomy Combined With Appendectomy. <i>IEEE Access</i> , 2020 , 8, 177100-177111	3.5	2
34	Development of a transperineal prostate biopsy robot guided by MRI-TRUS image. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021 , 17, e2266	2.9	2
33	Dynamics analysis of bionic parallel joint mechanism for the snake robot 2016 ,		2
32	Grip Force Perception Based on dAENN for Minimally Invasive Surgery Robot 2019 ,		2
31	An Improved Dynamic Window Approach Integrated Global Path Planning 2019 ,		2
30	Mechanical design and gait plan of a hydraulic-actuated biped robot 2015 ,		1
29	Safe path planning for free-floating space robot to approach noncooperative spacecraft. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2018 , 232, 1258-1271	0.9	1
28	Intuitive control algorithm of a novel minimally invasive surgical robot. <i>Computer Assisted Surgery</i> , 2016 , 21, 92-101	1.8	1
27	Prior knowledge snake segmentation of ultrasound images denoised by J-divergence anisotropy diffusion. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018 , 14, e1924	2.9	1
26	Vertical Jump Control of Hydraulic Single Legged Robot (HSLR) 2019 ,		1
25	Smooth transition of the CPG-based controller for snake-like robots 2017 ,		1
24	Design of a novel surgical instrument for minimally invasive robotic surgery 2014 ,		1
23	Dynamic obstacle avoidance of mobile robot tele-operation based on non-contact impedance control 2014 ,		1
22	Design of passive joint in minimally invasive surgical robot 2014 ,		1

21	Dynamic simulation and analysis for bolt and nut mating of dual arm robot 2012 ,		1
20	Automatic identification of the reference system based on the fourth ventricular landmarks in T1-weighted MR images. <i>Academic Radiology</i> , 2010 , 17, 67-74	4.3	1
19	Master-slave control strategy for abdominal minimally invasive surgery robotic system 2011 ,		1
18	A framework for automatic construction of 3D PDM from segmented volumetric neuroradiological data sets. <i>Computer Methods and Programs in Biomedicine</i> , 2010 , 97, 199-210	6.9	1
17	Development of a multi-DOF exoskeleton based machine for injured fingers 2008 ,		1
16	Laparoscopic Robot Design and Kinematic Validation 2006 ,		1
15	Development of a wall climbing robot with wheel-leg hybrid locomotion mechanism 2007 ,		1
14	Avoiding Static and Dynamic Objects in Navigation 2006 ,		1
13	Development and Test of a Spasm Sensor for Hand Rehabilitation Exoskeleton. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	1
12	Leg Locomotion Adaption for Quadruped Robots with Ground Compliance Estimation. <i>Applied Bionics and Biomechanics</i> , 2020 , 2020, 8854411	1.6	1
11	Vision-based hand-eye calibration for robot-assisted minimally invasive surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 2061-2069	3.9	1
10	Extrinsic Calibration Between a Stereo System and a 3D LIDAR 2019 ,		1
9	A Novel Grip Force Cognition Scheme for Robot-Assisted Minimally Invasive Surgery. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021 , 13, 391-402	3	1
8	Locomotion Adaption for Hydraulic Humanoid Wheel-Legged Robots Over Rough Terrains. <i>International Journal of Humanoid Robotics</i> , 2021 , 18, 2150001	1.2	1
7	Research on Compliance Control for the single Joint of a Hydraulic Legged Robot 2018 ,		1
6	For Prostate MRI Segmentation: A Prior-shape-based Level Set Model Combined with Gradient and Regional Information 2018 ,		1
5	Facial landmark-guided surface matching for image-to-patient registration with an RGB-D camera.. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2022 , e2373	2.9	0
4	Buffering Performance Analysis of an Ostrich-like Leg Based on a Seven-Link Parallel Mechanism. <i>Machines</i> , 2022 , 10, 306	2.9	0

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| 3 | Global motion planning and redundancy resolution for large objects manipulation by dual redundant robots with closed kinematics. <i>Robotica</i> ,1-26 | 2.1 |
| 2 | Ultrasound-guided prostate percutaneous intervention robot system and calibration by informative particle swarm optimization. <i>Frontiers of Mechanical Engineering</i> , 2022 , 17, 1 | 3.3 |
| 1 | Lightweight Deep Neural Network for Articulated Joint Detection of Surgical Instrument in Minimally Invasive Surgical Robot.. <i>Journal of Digital Imaging</i> , 2022 , 1 | 5.3 |