Alireza Mirbagheri

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1300652/publications.pdf

Version: 2024-02-01

35 papers	210 citations	1307594 7 h-index	1281871 11 g-index
36 all docs	36 docs citations	36 times ranked	291 citing authors

#	Article	IF	Citations
1	A novel remote center of motion mechanism for the forceâ€reflective master robot of haptic teleâ€surgery systems. International Journal of Medical Robotics and Computer Assisted Surgery, 2014, 10, 129-139.	2.3	26
2	Design and development of a hand robotic rehabilitation device for post stroke patients. , 2009, 2009, 5026-9.		19
3	A tripleâ€jaw actuated and sensorized instrument for grasping large organs during minimally invasive robotic surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2013, 9, 83-93.	2.3	15
4	A modular forceâ€controlled robotic instrument for minimally invasive surgery â€“ efficacy for being used in autonomous grasping against a variable pull force. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 620-633.	2.3	15
5	A geometrical approach for configuration and singularity analysis of a new non-symmetric 2DOF 5R Spherical Parallel Manipulator. Mechanism and Machine Theory, 2020, 147, 103747.	4.5	14
6	Automatic tracking of laparoscopic instruments for autonomous control of a cameraman robot. Minimally Invasive Therapy and Allied Technologies, 2016, 25, 121-128.	1.2	13
7	Design and implementation of series elastic actuators for a haptic laparoscopic device. , 2009, 2009, 6054-7.		11
8	Design of a force-reflective master robot for haptic telesurgery applications: RoboMaster1. , 2011, 2011, 7037-40.		10
9	Investigation of a Hybrid Kinematic Calibration Method for the â€œSinaâ€•Surgical Robot. IEEE Robotics and Automation Letters, 2020, 5, 5276-5282.	5.1	9
10	Therapeutic effects of an anti-gravity treadmill (AlterG) training on gait and lower limbs kinematics and kinetics in children with cerebral palsy. , 2017, 2017, 170-174.		8
11	An extended algorithm for autonomous grasping of soft tissues during robotic surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, 1-15.	2.3	8
12	Conceptual Design of a Novel Laparoscopic Instrument for Manipulation of Large Internal Organs. , 2010, , .		7
13	Design and analysis of an actuated endoscopic grasper for manipulation of large body organs. , 2010, 2010, 1230-3.		6
14	Planning screw insertion trajectory in lumbar spinal fusion using pre-operative CT images. , 2015, 2015, 3639-42.		6
15	A minimally invasive robotic surgery approach to perform totally endoscopic coronary artery bypass on beating hearts. Medical Hypotheses, 2019, 124, 76-83.	1.5	6
16	Design, Analysis, and Experimental Evaluation of a Novel Three-Fingered Endoscopic Large-Organ Grasper. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.7	5
17	Marker-Free Detection of Instruments in Laparoscopic Images to Control a Cameraman Robot. , 2010, , .		4
18	Real-time tracking of laparoscopic instruments using kinect for training in virtual reality. , 2016, 2016, 3945-3948.		4

#	Article	IF	Citations
19	Pendulum test measure correlates with gait parameters in children with cerebral palsy. , 2016, 2016, 1708-1711.		3
20	A novel laparoscopic grasper with two parallel jaws capable of extracting the mechanical behaviour of soft tissues. Journal of Medical Engineering and Technology, 2017, 41, 339-345.	1.4	3
21	An Adapting Mechanism to Manipulate Manual Wristed Laparoscopic Instruments by a Robotic Surgery System. , 0, , .		3
22	Real time simulation of grasping procedure of large internal organs during laparoscopic surgery. , 2012, 2012, 924-7.		2
23	Medical Robotics. International Journal of Healthcare Information Systems and Informatics, 2013, 8, 1-14.	0.9	2
24	Finite Element Modeling of Spleen Tissue to Analyze Its Interaction With a Laparoscopic Surgery Instrument. , 2010, , .		2
25	Design of a 4 DOF laparoscopic surgery robot for manipulation of large organs. Studies in Health Technology and Informatics, 2012, 173, 8-12.	0.3	2
26	Gear fault diagnosis via non-stationary adaptive MARTIN distance. Scientia Iranica, 2011, 18, 59-65.	0.4	1
27	Conceptual design of a miniaturized hybrid local actuator for Minimally Invasive Robotic Surgery (MIRS) instruments. , 2011, 2011, 2140-3.		1
28	Ultrasound elastography using shear wave interference patterns: a finite element study of affecting factors. Physical and Engineering Sciences in Medicine, 2021, 44, 253-263.	2.4	1
29	Objective measurement of Inferior-Directed stiffness in glenohumeral joint using a specially designed robotic device in healthy shoulders; Within- and Between-Session reliability. Journal of Biomechanics, 2021, 127, 110663.	2.1	1
30	Modeling of interaction between a three-fingered surgical grasper and human spleen. Studies in Health Technology and Informatics, 2011, 163, 663-9.	0.3	1
31	Arrangement Optimization of Robotic surgery Arms at Sina_{flex} surgical platform. , 2021, , .		1
32	An Investigation on Human Vibration Analysis Using Image Processing Method. , 2005, , 2607.		0
33	Design, optimization and experimental evaluation of a novel tactile sensor for large surgical grasper. , 2010, , .		0
34	Bilateral Control of a Nonlinear Teleoperation Robotic System with Time Varying Delay Using Optimal Control Method. , 2017, , .		0
35	An image registration-based technique for noninvasive vascular elastography. , 2018, , .		0