

Konrad Leibrandt

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

479
citations

1040056

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23
docs citations

23
times ranked

532
citing authors

#	ARTICLE	IF	CITATIONS
1	The i2Snake Robotic Platform for Endoscopic Surgery. <i>Annals of Biomedical Engineering</i> , 2018, 46, 1663-1675.	2.5	81
2	A Single-Port Robotic System for Transanal Microsurgery – Design and Validation. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 1510-1517.	5.1	55
3	Concentric Tube Robots: Rapid, Stable Path-Planning and Guidance for Surgical Use. <i>IEEE Robotics and Automation Magazine</i> , 2017, 24, 42-53.	2.0	42
4	Inverse Kinematics Control Methods for Redundant Snake-like Robot Teleoperation During Minimally Invasive Surgery. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 2501-2508.	5.1	41
5	Effective Manipulation in Confined Spaces of Highly Articulated Robotic Instruments for Single Access Surgery. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 1704-1711.	5.1	32
6	Evaluation of a novel flexible snake robot for endoluminal surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2015, 29, 3349-3355.	2.4	30
7	Vision-based deformation recovery for intraoperative force estimation of tool-tissue interaction for neurosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 929-936.	2.8	28
8	Optic Nerve Sheath Fenestration With a Multi-Arm Continuum Robot. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 4874-4881.	5.1	20
9	Making the Leap. <i>Annals of Surgery</i> , 2016, 263, 1077-1078.	4.2	19
10	On-line collision-free inverse kinematics with frictional active constraints for effective control of unstable concentric tube robots. , 2015, , .		18
11	Rolling-Joint Design Optimization for Tendon Driven Snake-Like Surgical Robots. , 2018, , .		17
12	Implicit active constraints for a compliant surgical manipulator. , 2014, , .		13
13	Three-dimensional robotic-assisted endomicroscopy with a force adaptive robotic arm. , 2017, , .		11
14	Implicit active constraints for concentric tube robots based on analysis of the safe and dexterous workspace. , 2017, , .		11
15	Design and evaluation of a novel flexible robot for transluminal and endoluminal surgery. , 2014, , .		10
16	Implicit active constraints for safe and effective guidance of unstable concentric tube robots. , 2016, , .		10
17	Hands-on reconfigurable robotic surgical instrument holder arm. , 2016, , .		9
18	Design of a smart 3D-printed wristed robotic surgical instrument with embedded force sensing and modularity. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
19	Active Constraints for Tool-Shaft Collision Avoidance in Minimally Invasive Surgery. , 2019, , .		8
20	Robotic Billiards: Understanding Humans in Order to Counter Them. IEEE Transactions on Cybernetics, 2016, 46, 1889-1899.	9.5	6
21	Motor channelling for safe and effective dynamic constraints in Minimally Invasive Surgery. , 2016, , .		4
22	Efficient Proximity Queries for Continuum Robots on Parallel Computing Hardware. IEEE Robotics and Automation Letters, 2017, 2, 1548-1555.	5.1	3
23	Modelling Human Gameplay at Pool and Countering It with an Anthropomorphic Robot. Lecture Notes in Computer Science, 2013, , 30-39.	1.3	2