

Agostino Stilli

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

707
citations

1163117

8
h-index

940533

16
g-index

26
all docs

26
docs citations

26
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	Tendon-Based Stiffening for a Pneumatically Actuated Soft Manipulator. IEEE Robotics and Automation Letters, 2016, 1, 632-637.	5.1	148
2	Shrinkable, stiffness-controllable soft manipulator based on a bio-inspired antagonistic actuation principle. , 2014, , .		93
3	Tendon and pressure actuation for a bio-inspired manipulator based on an antagonistic principle. , 2015, , .		73
4	A Novel Concept for Safe, Stiffness-Controllable Robot Links. Soft Robotics, 2017, 4, 16-22.	8.0	62
5	Accelerating Surgical Robotics Research: A Review of 10 Years With the da Vinci Research Kit. IEEE Robotics and Automation Magazine, 2021, 28, 56-78.	2.0	56
6	AirExGlove â€™ A novel pneumatic exoskeleton glove for adaptive hand rehabilitation in post-stroke patients. , 2018, , .		41
7	Variable Stiffness Link (VSL): Toward inherently safe robotic manipulators. , 2017, , .		35
8	Fingertip Fiber Optical Tactile Array with Two-Level Spring Structure. Sensors, 2017, 17, 2337.	3.8	23
9	Open-Loop Position Control in Collaborative, Modular Variable-Stiffness-Link (VSL) Robots. IEEE Robotics and Automation Letters, 2020, 5, 1772-1779.	5.1	22
10	Force and proximity fingertip sensor to enhance grasping perception. , 2015, , .		19
11	Fingertip proximity sensor with realtime visual-based calibration. , 2016, , .		16
12	Lecture Notes in Computer Science: An Antagonistic Actuation Technique for Simultaneous Stiffness and Position Control. Lecture Notes in Computer Science, 2015, , 164-174.	1.3	15
13	A Fluidic Soft Robot for Needle Guidance and Motion Compensation in Intratympanic Steroid Injections. IEEE Robotics and Automation Letters, 2021, 6, 871-878.	5.1	14
14	Static Kinematics for an Antagonistically Actuated Robot Based on a Beam-Mechanics-Based Model. , 2018, , .		13
15	Pneumatically Attachable Flexible Rails for Track-Guided Ultrasound Scanning in Robotic-Assisted Partial Nephrectomyâ€™A Preliminary Design Study. IEEE Robotics and Automation Letters, 2019, 4, 1208-1215.	5.1	11
16	Autonomous Object Handover Using Wrist Tactile Information. Lecture Notes in Computer Science, 2017, , 450-463.	1.3	10
17	Object classification using hybrid fiber optical force/proximity sensor. , 2017, , .		8
18	Soft Robotics. Bio-inspired Antagonistic Stiffening. Biosystems and Biorobotics, 2018, , 207-214.	0.3	7

#	ARTICLE	IF	CITATIONS
19	Real-Time Vision-Based Stiffness Mapping â€¦. Sensors, 2018, 18, 1347.	3.8	7
20	Ultrasound 3D reconstruction of malignant masses in robotic-assisted partial nephrectomy using the PAF rail system: a comparison study. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1147-1155.	2.8	7
21	A new miniaturised multi-axis force/torque sensors based on optoelectronic technology and simply-supported beam. , 2016, , .		6
22	A 5-DOFs Robot for Posterior Segment Eye Microsurgery. IEEE Robotics and Automation Letters, 2022, 7, 10128-10135.	5.1	6
23	Kinematic Control and Obstacle Avoidance for Soft Inflatable Manipulator. Lecture Notes in Computer Science, 2019, , 52-64.	1.3	5
24	Semi-Autonomous Interventional Manipulation using Pneumatically Attachable Flexible Rails. , 2019, , .		5
25	Learning intraoperative organ manipulation with context-based reinforcement learning. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1419-1427.	2.8	3
26	Autonomous pick-and-place using the dVRK. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1141-1149.	2.8	2