Bruno Scaglioni

List of Publications by Year
in descending order

18	352	1163117 8	888059 17
papers	citations	h-index	g-index

18	18	18	376
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enabling the future of colonoscopy with intelligent and autonomous magnetic manipulation. Nature Machine Intelligence, 2020, 2, 595-606.	16.0	113
2	Autonomy in Surgical Robotics. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 651-679.	11.8	79
3	Autonomous Tissue Retraction in Robotic Assisted Minimally Invasive Surgery â€“ A Feasibility Study. IEEE Robotics and Automation Letters, 2020, 5, 6528-6535.	5.1	41
4	Closed form Newtonâ€“Euler dynamic model of flexible manipulators. Robotica, 2017, 35, 1006-1030.	1.9	25
5	Towards digital twins through object-oriented modelling: a machine tool case study. IFAC-PapersOnLine, 2018, 51, 613-618.	0.9	24
6	Explicit Model Predictive Control of a Magnetic Flexible Endoscope. IEEE Robotics and Automation Letters, 2019, 4, 716-723.	5.1	21
7	Magnetic flexible endoscope for colonoscopy: an initial learning curve analysis. Endoscopy International Open, 2021, 09, E171-E180.	1.8	10
8	Object-oriented modelling of general flexible multibody systems. Mathematical and Computer Modelling of Dynamical Systems, 2014, 20, 1-22.	2.2	8
9	A Comparative Study of Spatio-Temporal U-Nets for Tissue Segmentation in Surgical Robotics. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 53-63.	3.2	8
10	Robotic Autonomy for Magnetic Endoscope Biopsy. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 599-607.	3.2	6
11	Closed-form control oriented model of highly flexible manipulators. Applied Mathematical Modelling, 2017, 52, 174-185.	4.2	4
12	Closed form model of manipulators with highly flexible links. IFAC-PapersOnLine, 2015, 48, 653-654.	0.9	3
13	Active Stabilization of Interventional Tasks Utilizing a Magnetically Manipulated Endoscope. Frontiers in Robotics and AI, 2022, 9, 854081.	3.2	3
14	Independent Control of Multiple Degrees of Freedom Local Magnetic Actuators With Magnetic Cross-Coupling Compensation. IEEE Robotics and Automation Letters, 2018, 3, 3622-3629.	5.1	2
15	382 ASSISTIVE-AUTONOMY IN COLONOSCOPY: PROPULSION OF A MAGNETIC FLEXIBLE ENDOSCOPE. Gastrointestinal Endoscopy, 2019, 89, AB76-AB77.	1.0	2
16	Clutch-based launch controller design for sport motorcycles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 797-802.	0.4	1
17	Su1351 THE MAGNETIC FLEXIBLE ENDOSCOPE (MFE): A LEARNING CURVE ANALYSIS. Gastroenterology, 2020, 158, S-561.	1.3	1
18	Multibody Model of a Motorbike with a Flexible Swingarm. , 2014, , .		1