Marco De Stefano

List of Publications by Year
in descending order

29 papers	337 citations	1478505 6 h-index	1474206 9 g-index
29 all docs	29 docs citations	29 times ranked	179 citing authors

#	ARTICLE	IF	CITATIONS
1	The OOS-SIM: An on-ground simulation facility for on-orbit servicing robotic operations. , 2015, , .		52
2	Tracking Control for the Grasping of a Tumbling Satellite With a Free-Floating Robot. IEEE Robotics and Automation Letters, 2018, 3, 3638-3645.	5.1	35
3	Visual-Inertial Telepresence for Aerial Manipulation. , 2020, , .		26
4	A Passivity-Based Approach for Simulating Satellite Dynamics With Robots: Discrete-Time Integration and Time-Delay Compensation. IEEE Transactions on Robotics, 2020, 36, 189-203.	10.3	24
5	Dynamics and control of a free-floating space robot in presence of nonzero linear and angular momenta. , 2016, , .		21
6	Multi-Rate Tracking Control for a Space Robot on a Controlled Satellite: A Passivity-Based Strategy. IEEE Robotics and Automation Letters, 2019, 4, 1319-1326.	5.1	19
7	Design and Operational Elements of the Robotic Subsystem for the e.deorbit Debris Removal Mission. Frontiers in Robotics and AI, 2018, 5, 100.	3.2	16
8	Passivity of virtual free-floating dynamics rendered on robotic facilities. , 2015, , .		14
9	Teleoperation for on-orbit servicing missions through the ASTRA geostationary satellite. , 2016, , .		14
10	A Relative Dynamics Formulation for Hardware- in-the-Loop Simulation of On-Orbit Robotic Missions. IEEE Robotics and Automation Letters, 2021, 6, 3569-3576.	5.1	13
11	Passive Compliance Control of Aerial Manipulators. , 2018, , .		11
12	An Energy-Based Approach for the Multi-Rate Control of a Manipulator on an Actuated Base. , 2018, , .		11
13	Reproducing physical dynamics with hardware-in-the-loop simulators: A passive and explicit discrete integrator. , 2017, , .		10
14	Model-based fault diagnosis and tolerant control: the ESA's e.Deorbit mission. , 2019, , .		10
15	A Nonlinear Observer for Free-Floating Target Motion using only Pose Measurements. , 2019, , .		10
16	An optimized passivity-based method for simulating satellite dynamics on a position controlled robot in presence of latencies. , 2016, , .		9
17	Velocity matching compliant control for a space robot during capture of a free-floating target. , 2018, , .		8
18	Compliant Floating-Base Control of Space Robots. IEEE Robotics and Automation Letters, 2021, 6, 7485-7492.	5.1	6

#	Article	IF	Citations
19	A Geometric Controller for Fully-Actuated Robotic Capture of a Tumbling Target. , 2020, , .		5
20	Stabilization of User-Defined Feedback Controllers in Teleoperation With Passive Coupling Reference. IEEE Robotics and Automation Letters, 2021, 6, 3513-3520.	5.1	5
21	Inertia-Decoupled Equations for Hardware-in-the-Loop Simulation of an Orbital Robot with External Forces. , 2020, , .		5
22	A passive integration strategy for rendering rotational rigid-body dynamics on a robotic simulator. , 2017, , .		4
23	Output Feedback Stabilization of an Orbital Robot. , 2020, , .		4
24	Assessment of a Supervisory Fault-Hiding Scheme in a Classical Guidance, Navigation and Control Setup: the e.Deorbit mission. , 2019, , .		2
25	A Compliant Partitioned Shared Control Strategy for an Orbital Robot. IEEE Robotics and Automation Letters, 2021, 6, 7317-7324.	5.1	2
26	Increasing the Performance of Torque-based Visual Servoing by applying Time Domain Passivity. IFAC-PapersOnLine, 2015, 48, 13-18.	0.9	1
27	Tracking Control with Robotic Systems for a Moving Target: A Vector Lyapunov Function Approach. IFAC-PapersOnLine, 2018, 51, 471-478.	0.9	0
28	Time-delay Compensation Using Energy Tank for Satellite Dynamics Robotic Simulators. , 2019, , .		0
29	A Detumbling Strategy for an Orbital Manipulator in the Post-Grasp Phase. , 2022, , .		0