

# Mauro Massari

## List of Publications by Year in descending order

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34  
papers

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citations

1040018

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h-index

940516

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g-index

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all docs

34  
docs citations

34  
times ranked

229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive generalized ZEM-ZEV feedback guidance for planetary landing via a deep reinforcement learning approach. <i>Acta Astronautica</i> , 2020, 171, 156-171.	3.2	61
2	Application of SDRE technique to orbital and attitude control of spacecraft formation flying. <i>Acta Astronautica</i> , 2014, 94, 409-420.	3.2	53
3	Optimization of Low-Thrust Reconfiguration Maneuvers for Spacecraft Flying in Formation. <i>Journal of Guidance, Control, and Dynamics</i> , 2009, 32, 1629-1638.	2.8	33
4	LUMIO: A CubeSat for observing and characterizing micro-meteoroid impacts on the Lunar far side. <i>Acta Astronautica</i> , 2022, 195, 309-317.	3.2	21
5	Nonlinear Control of Formation Flying with State Constraints. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 1919-1925.	2.8	19
6	On-board spacecraft relative pose estimation with high-order extended Kalman filter. <i>Acta Astronautica</i> , 2019, 158, 55-67.	3.2	18
7	Real-time space object tracklet extraction from telescope survey images with machine learning. <i>Astrodynamics</i> , 2022, 6, 205-218.	2.4	12
8	Adaptive track estimation on a radar array system for space surveillance. <i>Acta Astronautica</i> , 2022, 198, 111-123.	3.2	12
9	Nonlinear Uncertainty Propagation in Astrodynamics Using Differential Algebra and Graphics Processing Units. <i>Journal of Aerospace Information Systems</i> , 2017, 14, 493-503.	1.4	11
10	Differential Algebra software library with automatic code generation for space embedded applications. , 2018, , .		11
11	Initial orbit determination with the multibeam radar sensor BIRALES. <i>Acta Astronautica</i> , 2020, 167, 374-390.	3.2	10
12	Adaptive Hybrid System Framework for Unified Impedance and Admittance Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 91, 569-581.	3.4	8
13	DA-based nonlinear filters for spacecraft relative state estimation. , 2018, , .		7
14	The Multibeam Radar Sensor BIRALES: Performance Assessment for Space Surveillance and Tracking. , 2019, , .		6
15	Contact detection, isolation and estimation for orbital robots through an observer based on a centroid-joints dynamics. <i>Acta Astronautica</i> , 2021, 181, 40-51.	3.2	6
16	Unexpected Collision Detection, Estimation, and Reaction for a Free-Flying Orbital Robot. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 967-982.	2.8	5
17	Nonlinear Prediction in Marker-Based Spacecraft Pose Estimation with Polynomial Transition Maps. <i>Journal of Spacecraft and Rockets</i> , 2022, 59, 511-523.	1.9	5
18	Space shepherd: Search and rescue of illegal immigrants in the mediterranean sea through satellite imagery. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
19	Spaceship Earth. Space-driven technologies and systems for sustainability on ground. Acta Astronautica, 2015, 115, 195-205.	3.2	4
20	OBIA ship detection with multispectral and SAR images: A simulation for Copernicus security applications. , 2016, , .		4
21	Convex optimisation approach to constrained fuel optimal control of spacecraft in close relative motion. Advances in Space Research, 2018, 61, 2366-2376.	2.6	4
22	Contact force observer for space robots. , 2019, , .		4
23	Optimization of Low-Thrust Trajectories for Formation Flying with Parallel Multiple Shooting. , 2006, , .		3
24	Autonomous Rover Control with Behavioral Algorithms and Neural Networks. , 2006, , .		2
25	Approach to Model Interest for a Planetary Rover through Dezert-Smarandache Theory. Journal of Aerospace Computing, Information, and Communication, 2009, 6, 92-108.	0.8	2
26	Optimization of Multiple-Rendezvous Low-Thrust Missions on General-Purpose Graphics Processing Units. Journal of Aerospace Computing, Information, and Communication, 2016, 13, 1-13.	0.8	2
27	A Non-Deterministic Planner for Planetary Rover Autonomy. , 2006, , .		1
28	Virtual Model Control for Planetary Hexapod Robot Walking on Rough Terrain. , 2019, , .		1
29	Autonomous navigation of a rover for planetary exploration. , 2001, , .		0
30	Optimal Trajectory Design for SIMONE Mission Study. , 2003, , .		0
31	N.E.Me.Sys: A Planetary Legged Rover Controlled With Dynamical Artificial Neural Networks. Intelligent Automation and Soft Computing, 2008, 14, 263-278.	2.1	0
32	An approach to contact detection and isolation for free-floating space robots based on momentum monitoring. , 2019, , .		0
33	Semi-Active Damping System Characterization for Landing in Microgravity. , 2019, , .		0
34	Non Deterministic Planning with Evidence and Paradoxical Reasoning Theories. , 2006, , .		0