

Gb Palmerini

List of Publications by Year in descending order

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89
papers

934
citations

430874

18
h-index

526287

27
g-index

90
all docs

90
docs citations

90
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibration control of a flexible space manipulator during on orbit operations. Acta Astronautica, 2012, 73, 109-121.	3.2	100
2	Design of robotic manipulators for orbit removal of spent launchers™ stages. Acta Astronautica, 2016, 119, 118-130.	3.2	41
3	Flexibility issues in discrete on/off actuated spacecraft: Numerical and experimental tests. Acta Astronautica, 2014, 101, 81-97.	3.2	39
4	A testbed for visual based navigation and control during space rendezvous operations. Acta Astronautica, 2015, 117, 184-196.	3.2	37
5	Ground tests for vision based determination and control of formation flying spacecraft trajectories. Acta Astronautica, 2014, 102, 378-391.	3.2	32
6	Adaptive and robust algorithms and tests for visual-based navigation of a space robotic manipulator. Acta Astronautica, 2013, 83, 65-84.	3.2	31
7	A reaction-null/Jacobian transpose control strategy with gravity gradient compensation for on-orbit space manipulators. Aerospace Science and Technology, 2014, 38, 30-40.	4.8	31
8	Analysis and experiments for delay compensation in attitude control of flexible spacecraft. Acta Astronautica, 2014, 104, 276-292.	3.2	30
9	En route to the Moon using GNSS signals. Acta Astronautica, 2009, 64, 467-483.	3.2	29
10	Image based control of the "PINOCCHIO" experimental free flying platform. Acta Astronautica, 2014, 94, 480-492.	3.2	28
11	Optimal target grasping of a flexible space manipulator for a class of objectives. Acta Astronautica, 2011, 68, 1031-1041.	3.2	27
12	Delay compensation for controlling flexible space multibodies: Dynamic modeling and experiments. Control Engineering Practice, 2015, 45, 147-162.	5.5	25
13	Synergetic approach in attitude control of very flexible satellites by means of thrusters and PZT devices. Aerospace Science and Technology, 2020, 96, 105541.	4.8	23
14	Deployable space manipulator commanded by means of visual-based guidance and navigation. Acta Astronautica, 2013, 83, 27-43.	3.2	22
15	Elastic issues and vibration reduction in a tethered deorbiting mission. Advances in Space Research, 2016, 57, 1951-1964.	2.6	22
16	Coordinated control of a space manipulator tested by means of an air bearing free floating platform. Acta Astronautica, 2017, 139, 296-305.	3.2	22
17	Pose and Shape Reconstruction of a Noncooperative Spacecraft Using Camera and Range Measurements. International Journal of Aerospace Engineering, 2017, 2017, 1-13.	0.9	19
18	A passive camera based determination of a non-cooperative and unknown satellite's pose and shape. Acta Astronautica, 2018, 151, 805-817.	3.2	19

#	ARTICLE	IF	CITATIONS
19	Linearized Formation-Flying Dynamics in a Perturbed Orbital Environment. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	18
20	Collective control of spacecraft swarms for space exploration. Celestial Mechanics and Dynamical Astronomy, 2009, 105, 229-244.	1.4	18
21	Centralized visual based navigation and control of a swarm of satellites for on-orbit servicing. Acta Astronautica, 2020, 171, 323-334.	3.2	17
22	Minimum control for spacecraft formations in a J2 perturbed environment. Celestial Mechanics and Dynamical Astronomy, 2009, 105, 141-157.	1.4	16
23	Dynamics and control of low-altitude formations. Acta Astronautica, 2007, 61, 298-311.	3.2	15
24	Adaptive Thrust Vector Control during On-Orbit Servicing. , 2014, , .		15
25	Space webs based on rotating tethered formations. Acta Astronautica, 2009, 65, 131-145.	3.2	13
26	Operational modal analysis via image based technique of very flexible space structures. Acta Astronautica, 2013, 89, 139-148.	3.2	13
27	Design and tests of a frictionless 2D platform for studying space navigation and control subsystems. , 2012, , .		12
28	Effects of a High Fidelity Filter on the attitude stabilization of a flexible spacecraft. Acta Astronautica, 2018, 151, 260-269.	3.2	12
29	Three spacecraft formation control by means of electrostatic forces. Aerospace Science and Technology, 2016, 48, 261-271.	4.8	11
30	Autonomous State Estimation in Formation Flight. , 2007, , .		9
31	A comparison among classical and SDRE techniques in formation flying orbital control. , 2013, , .		9
32	Visual techniques applied to the ATV/ISS rendezvous monitoring. , 0, , .		8
33	Estimate Problems for Satellite Clusters. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	8
34	Characterization of deployable ultrathin composite boom for microsattellites excited by attitude maneuvers. Composite Structures, 2019, 220, 502-509.	5.8	8
35	Design of the radiation shielding for a microsatellite. Acta Astronautica, 2002, 50, 159-166.	3.2	7
36	Dynamics of a 3D Rotating Tethered Formation Flying Facing the Earth. , 2007, , .		7

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37	Parametric analysis of ballistic target tracking problem by multiple model approach. IET Radar, Sonar and Navigation, 2013, 7, 459-469.	1.8	7
38	Combining thermal and visual imaging in spacecraft proximity operations. , 2014, , .		7
39	Analytical and numerical investigations on spacecraft formation control by using electrostatic forces. Acta Astronautica, 2016, 123, 455-469.	3.2	7
40	GNC architecture for an optimal rendezvous to an uncooperative tumbling target using passive monocular camera. Acta Astronautica, 2022, 196, 380-393.	3.2	7
41	Analysis and tests of visual based techniques for orbital rendezvous operations. , 2013, , .		6
42	Evaluation of control strategies for spacecraft electrostatic formation keeping. , 2014, , .		6
43	Polar elliptic orbits for global coverage constellations. , 1994, , .		5
44	Design of global coverage constellations based on elliptical orbits. , 1996, , .		5
45	Coordinated Attitude Control for Multiple Heterogeneous Satellites Missions. , 2012, , .		5
46	An algorithm to rationalize a DME network as a backup for GNSS aircraft navigation. Journal of Air Transport Management, 2014, 34, 6-11.	4.5	5
47	Debris cloud evolution: Mathematical modelling and application to satellite constellation design. Acta Astronautica, 1996, 39, 439-445.	3.2	4
48	Autonomous behavioral strategy and optimal centralized guidance for on-orbit self assembly. , 2009, , .		4
49	Determination of kinematic state of an orbiting multibody using GNSS signals. Acta Astronautica, 2009, 64, 1109-1122.	3.2	4
50	Navigation Aids Performance Evaluation for Precision Approaches. International Journal of Aerospace Engineering, 2010, 2010, 1-10.	0.9	4
51	Ground-based orbit determination for spacecraft formations. , 2010, , .		4
52	GNSS software receiver as navigation sensor in very high orbits. , 2014, , .		4
53	Attitude coordination strategies in satellite constellations and formation flying. , 2015, , .		4
54	Tracking a ballistic target by multiple model approach. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
55	Initialization of ballistic targets tracking filters with detection probability lower than unity. , 2010, , .		3
56	An experimental testbed to simulate space manipulators GNC. , 2011, , .		3
57	Experimental investigation of on-off control modulation for rigid and flexible free floating platforms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 19-24.	0.4	3
58	Assisted GNSS Navigation in Lunar Missions. , 2014, , .		3
59	Analysis and experiments for a system of two spacecraft paired by means of a flexible link. Acta Astronautica, 2016, 128, 62-71.	3.2	3
60	Guidelines for active removal of non-functional targets designed to assist rendezvous and capture. , 2016, , .		3
61	Simulation of Spacecraft Formation Maneuvers by means of Floating Platforms. , 2021, , .		3
62	Structural Design in a Space Radiation Shielding Perspective. , 2003, , .		2
63	Control Effort Evaluation for Low-Altitude Formation Flying. , 0, , .		2
64	Space Webs Dynamics and Configuration Control by means of Reaction Wheels. , 2012, , .		2
65	Modeling the formationkeeping control with multibody codes. , 2012, , .		2
66	Reconstruction of the Shape of a Tumbling Target from a Chaser in Close Orbit. , 2020, , .		2
67	Visual based Navigation of a Free Floating Robot by Means of a Lab Star Tracker. , 2015, , .		2
68	Modelling the interaction of the Astro Bio Cube Sat with the Van Allenâ€™s Belt radiative field using Monte Carlo transport codes. Radiation Detection Technology and Methods, 0, , 1.	0.8	2
69	Design of descent trajectories in atmosphere with respect to engineering constraints. , 0, , .		1
70	Design of a mars data relay and navigation satellite network. , 0, , .		1
71	A mass optimization technique to mitigate the radi.... , 2005, , .		1
72	Applications of genetic algorithms in mission design. , 2005, , .		1

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73	Technological requirements for a passively attitude stabilized solar orbiter. , 2005, , .		1
74	Experiences in Data Analysis of a GBAS Approach Test. , 2007, , .		1
75	The cross-link tecnique for deep space missions. , 2009, , .		1
76	A fast approach for relative orbital determination in spacecraft formations. , 2012, , .		1
77	Bidirectional converter for single-cell Li-ion batteries in a small space vehicle. , 2012, , .		1
78	Preliminary analysis of visual navigation performance in close formation flying. , 2017, , .		1
79	Hybrid Configurations for Satellite Constellations. Space Technology Proceedings, 1998, , 81-89.	0.1	1
80	Determination of kinematic state of an orbiting multibody using GNSS signals. , 2006, , .		1
81	Effective exploitation of a geyser bubble-chamber equipment as a background-free fast neutron detector. European Physical Journal C, 2021, 81, 1.	3.9	1
82	A Concurrent Testing Facility Approach to Validate Small Satellite Combined Operations. Aerospace, 2021, 8, 361.	2.2	1
83	Spacecraft built-in radiation shielding for selected orbits and attitudes. , 0, , .		0
84	Validation of attitude/deformation sensing techniques for space flexible manipulators. Acta Astronautica, 2009, 64, 212-221.	3.2	0
85	Navigation issues in different baseline formation flying missions. , 2009, , .		0
86	Moderate accuracy relative navigation in formation flying by filtered radio measurements. , 2015, , .		0
87	Optimal Reconfiguration Manoeuvres in Formation Flying Missions. , 2021, , .		0
88	Orbit Design for Satellite Formations devoted to Space Environment Measurements. , 2021, , .		0
89	Effects of the Solar Radiation Torque on Sun-Synchronous Gravity Gradient Stabilized Spacecraft. , 2003, , .		0