Gb Palmerini

List of Publications by Year
in descending order

		430874	526287
89 papers	**934** citations	**18** h-index	**27** g-index
90 all docs	**90** docs citations	**90** times ranked	**526** citing authors

#	Article	IF	Citations
1	GNC architecture for an optimal rendezvous to an uncooperative tumbling target using passive monocular camera. Acta Astronautica, 2022, 196, 380-393.	3.2	7
2	Simulation of Spacecraft Formation Maneuvers by means of Floating Platforms. , 2021, , .		3
3	Optimal Reconfiguration Manoeuvres in Formation Flying Missions. , 2021, , .		0
4	Orbit Design for Satellite Formations devoted to Space Environment Measurements. , 2021, , .		0
5	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
6	A Concurrent Testing Facility Approach to Validate Small Satellite Combined Operations. Aerospace, 2021, 8, 361.	2.2	1
7	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
8	Reconstruction of the Shape of a Tumbling Target from a Chaser in Close Orbit. , 2020, , .		2
9	Centralized visual based navigation and control of a swarm of satellites for on-orbit servicing. Acta Astronautica, 2020, 171, 323-334.	3.2	17
10	Characterization of deployable ultrathin composite boom for microsatellites excited by attitude maneuvers. Composite Structures, 2019, 220, 502-509.	5.8	8
11	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
12	Effects of a High Fidelity Filter on the attitude stabilization of a flexible spacecraft. Acta Astronautica, 2018, 151, 260-269.	3.2	12
13	Preliminary analysis of visual navigation performance in close formation flying. , 2017, , .		1
14	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
15	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
16	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
17	Guidelines for active removal of non-functional targets designed to assist rendezvous and capture. , 2016, , .		3
18	Analytical and numerical investigations on spacecraft formation control by using electrostatic forces. Acta Astronautica, 2016, 123, 455-469.	3.2	7

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19	Design of robotic manipulators for orbit removal of spent launchers' stages. Acta Astronautica, 2016, 119, 118-130.	3.2	41
20	Three spacecraft formation control by means of electrostatic forces. Aerospace Science and Technology, 2016, 48, 261-271.	4.8	11
21	Elastic issues and vibration reduction in a tethered deorbiting mission. Advances in Space Research, 2016, 57, 1951-1964.	2.6	22
22	Moderate accuracy relative navigation in formation flying by filtered radio measurements. , 2015, , .		0
23	Attitude coordination strategies in satellite constellations and formation flying. , 2015, , .		4
24	A testbed for visual based navigation and control during space rendezvous operations. Acta Astronautica, 2015, 117, 184-196.	3.2	37
25	Delay compensation for controlling flexible space multibodies: Dynamic modeling and experiments. Control Engineering Practice, 2015, 45, 147-162.	5.5	25
26	Visual based Navigation of a Free Floating Robot by Means of a Lab Star Tracker. , 2015, , .		2
27	Combining thermal and visual imaging in spacecraft proximity operations. , 2014, , .		7
28	Adaptive Thrust Vector Control during On-Orbit Servicing. , 2014, , .		15
29	Assisted GNSS Navigation in Lunar Missions. , 2014, , .		3
30	GNSS software receiver as navigation sensor in very high orbits. , 2014, , .		4
31	Evaluation of control strategies for spacecraft electrostatic formation keeping. , 2014, , .		6
32	Analysis and experiments for delay compensation in attitude control of flexible spacecraft. Acta Astronautica, 2014, 104, 276-292.	3.2	30
33	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
34	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
35	Flexibility issues in discrete on–off actuated spacecraft: Numerical and experimental tests. Acta Astronautica, 2014, 101, 81-97.	3.2	39
36	Ground tests for vision based determination and control of formation flying spacecraft trajectories. Acta Astronautica, 2014, 102, 378-391.	3.2	32

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37	Image based control of the â€œPINOCCHIOâ€•experimental free flying platform. Acta Astronautica, 2014, 94, 480-492.	3.2	28
38	A comparison among classical and SDRE techniques in formation flying orbital control. , 2013, , .		9
39	Analysis and tests of visual based techniques for orbital rendezvous operations. , 2013, , .		6
40	Operational modal analysis via image based technique of very flexible space structures. Acta Astronautica, 2013, 89, 139-148.	3.2	13
41	Deployable space manipulator commanded by means of visual-based guidance and navigation. Acta Astronautica, 2013, 83, 27-43.	3.2	22
42	Adaptive and robust algorithms and tests for visual-based navigation of a space robotic manipulator. Acta Astronautica, 2013, 83, 65-84.	3.2	31
43	Parametric analysis of ballistic targetâ€•tracking problem by multiple model approach. IET Radar, Sonar and Navigation, 2013, 7, 459-469.	1.8	7
44	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
45	Design and tests of a frictionless 2D platform for studying space navigation and control subsystems. , 2012, , .		12
46	Space Webs Dynamics and Configuration Control by means of Reaction Wheels. , 2012, , .		2
47	Coordinated Attitude Control for Multiple Heterogeneous Satellites Missions. , 2012, , .		5
48	Modeling the formationkeeping control with multibody codes. , 2012, , .		2
49	A fast approach for relative orbital determination in spacecraft formations. , 2012, , .		1
50	Bidirectional converter for single-cell Li-ion batteries in a small space vehicle. , 2012, , .		1
51	Vibration control of a flexible space manipulator during on orbit operations. Acta Astronautica, 2012, 73, 109-121.	3.2	100
52	An experimental testbed to simulate space manipulators GNC. , 2011, , .		3
53	Optimal target grasping of a flexible space manipulator for a class of objectives. Acta Astronautica, 2011, 68, 1031-1041.	3.2	27
54	Navigation Aids Performance Evaluation for Precision Approaches. International Journal of Aerospace Engineering, 2010, 2010, 1-10.	0.9	4

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55	Initialization of ballistic targets tracking filters with detection probability lower than unity. , 2010, , .		3
56	Ground-based orbit determination for spacecraft formations. , 2010, , .		4
57	The cross-link tecnique for deep space missions. , 2009, , .		1
58	Autonomous behavioral strategy and optimal centralized guidance for on-orbit self assembly. , 2009, , .		4
59	Tracking a ballistic target by multiple model approach. , 2009, , .		3
60	Validation of attitude/deformation sensing techniques for space flexible manipulators. Acta Astronautica, 2009, 64, 212-221.	3.2	0
61	Determination of kinematic state of an orbiting multibody using GNSS signals. Acta Astronautica, 2009, 64, 1109-1122.	3.2	4
62	Space webs based on rotating tethered formations. Acta Astronautica, 2009, 65, 131-145.	3.2	13
63	Collective control of spacecraft swarms for space exploration. Celestial Mechanics and Dynamical Astronomy, 2009, 105, 229-244.	1.4	18
64	Minimum control for spacecraft formations in a J2 perturbed environment. Celestial Mechanics and Dynamical Astronomy, 2009, 105, 141-157.	1.4	16
65	En route to the Moon using GNSS signals. Acta Astronautica, 2009, 64, 467-483.	3.2	29
66	Navigation issues in different baseline formation flying missions. , 2009, , .		0
67	Estimate Problems for Satellite Clusters. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	8
68	Linearized Formation-Flying Dynamics in a Perturbed Orbital Environment. Aerospace Conference Proceedings IEEE, 2008, , .	0.0	18
69	Experiences in Data Analysis of a GBAS Approach Test. , 2007, , .		1
70	Dynamics of a 3D Rotating Tethered Formation Flying Facing the Earth. , 2007, , .		7
71	Autonomous State Estimation in Formation Flight. , 2007, , .		9
72	Dynamics and control of low-altitude formations. Acta Astronautica, 2007, 61, 298-311.	3.2	15

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73	Determination of kinematic state of an orbiting multibody using GNSS signals. , 2006, , .		1
74	A mass optimization technique to mitigate the radi…. , 2005, , .		1
75	Applications of genetic algorithms in mission design. , 2005, , .		1
76	Technological requirements for a passively attitude stabilized solar orbiter. , 2005, , .		1
77	Structural Design in a Space Radiation Shielding Perspective. , 2003, , .		2
78	Effects of the Solar Radiation Torque on Sun-Synchronous Gravity Gradient Stabilized Spacecraft. , 2003, , .		0
79	Design of the radiation shielding for a microsatellite. Acta Astronautica, 2002, 50, 159-166.	3.2	7
80	Hybrid Configurations for Satellite Constellations. Space Technology Proceedings, 1998, , 81-89.	0.1	1
81	Design of global coverage constellations based on elliptical orbits. , 1996, , .		5
82	Debris cloud evolution: Mathematical modelling and application to satellite constellation design. Acta Astronautica, 1996, 39, 439-445.	3.2	4
83	Polar elliptic orbits for global coverage constellations. , 1994, , .		5
84	Design of descent trajectories in atmosphere with respect to engineering constraints. , 0, , .		1
85	Spacecraft built-in radiation shielding for selected orbits and attitudes. , 0, , .		0
86	Design of a mars data relay and navigation satellite network. , 0, , .		1
87	Visual techniques applied to the ATV/1SS rendezvous monitoring. , 0, , .		8
88	Control Effort Evaluation for Low-Altitude Formation Flying. , 0, , .		2
89	Modelling the interaction of the Astro Bio Cube Sat with the Van Allen's Belt radiative field using Monte Carlo transport codes. Radiation Detection Technology and Methods, 0, , 1.	0.8	2