

Manuel Sanjurjo-Rivo

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

387
citations

933447

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h-index

794594

19
g-index

33
all docs

33
docs citations

33
times ranked

290
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Aircraft Trajectory Planning Under Wind Uncertainty Using Optimal Control. Journal of Guidance, Control, and Dynamics, 2018, 41, 673-688.	2.8	61
2	Additive manufacturing for a Moon village. Procedia Manufacturing, 2017, 13, 794-801.	1.9	53
3	A Survey on Low-Thrust Trajectory Optimization Approaches. Aerospace, 2021, 8, 88.	2.2	38
4	Robust aircraft trajectory planning under uncertain convective environments with optimal control and rapidly developing thunderstorms. Aerospace Science and Technology, 2019, 89, 445-459.	4.8	32
5	Generator Regime of Self-Balanced Electrodynamic Bare Tethers. Journal of Spacecraft and Rockets, 2006, 43, 1359-1369.	1.9	24
6	Multi-Objective Low-Thrust Interplanetary Trajectory Optimization Based on Generalized Logarithmic Spirals. Journal of Guidance, Control, and Dynamics, 2019, 42, 476-490.	2.8	17
7	DROMO propagator revisited. Celestial Mechanics and Dynamical Astronomy, 2016, 124, 1-31.	1.4	16
8	A lagrangian flight simulator for airborne wind energy systems. Applied Mathematical Modelling, 2019, 69, 665-684.	4.2	15
9	Influence of atmospheric uncertainty, convective indicators, and cost-index on the leveled aircraft trajectory optimization problem. Transportation Research Part C: Emerging Technologies, 2020, 120, 102784.	7.6	13
10	Asymptotic Solution for the Current Profile of Passive Bare Electrodynamic Tethers. Journal of Propulsion and Power, 2010, 26, 1291-1304.	2.2	12
11	Modeling and Stability Analysis of Tethered Kites at High Altitudes. Journal of Guidance, Control, and Dynamics, 2017, 40, 1892-1901.	2.8	12
12	Initial orbit determination methods for track-to-track association. Advances in Space Research, 2021, 68, 2677-2694.	2.6	9
13	Three-Body Dynamics and Self-Powering of an Electrodynamic Tether in a Plasmasphere. Journal of Propulsion and Power, 2010, 26, 385-393.	2.2	8
14	Energy Analysis of Bare Electrodynamic Tethers. Journal of Propulsion and Power, 2011, 27, 246-256.	2.2	8
15	Hybrid multi-objective orbit-raising optimization with operational constraints. Acta Astronautica, 2020, 175, 447-461.	3.2	8
16	Automatic maneuver detection and tracking of space objects in optical survey scenarios based on stochastic hybrid systems formulation. Advances in Space Research, 2022, 69, 3460-3477.	2.6	8
17	Singularities in Dromo formulation. Analysis of deep flybys. Advances in Space Research, 2015, 56, 569-581.	2.6	7
18	DROMO formulation for planar motions: solution to the Tsien problem. Celestial Mechanics and Dynamical Astronomy, 2015, 122, 143-168.	1.4	7

#	ARTICLE	IF	CITATIONS
19	Informed scenario-based RRT ⁺ — for aircraft trajectory planning under ensemble forecasting of thunderstorms. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 129, 103232.	7.6	7
20	Efficient Computation of Current Collection in Bare Electrodynamic Tethers in and beyond OML Regime. <i>Journal of Aerospace Engineering</i> , 2015, 28, 04014144.	1.4	6
21	Dynamic stabilization of L2 periodic orbits using attitude-orbit coupling effects. <i>Journal of Aerospace Engineering, Sciences and Applications</i> , 2012, 4, 73-81.	0.3	4
22	Periodic Orbits of a Hill-Tether Problem Originated from Collinear Points. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 222-233.	2.8	3
23	Optimization of Path-Constrained Systems using Pseudospectral Methods applied to Aircraft Trajectory Planning—This work has been partially supported by project Stochastic Optimal Control Towards Enhanced Predictability of Four-Dimensional Trajectories Using Weather Ensemble Prediction Forecasts Founding Entity: Eurocontrol through HALA! Research Network (SESAR-WPe, 7th) Tj ETQq1 1 0.784314 rgBT /Over	0.9	3
24	Robust Optimal Trajectory Planning Under Uncertain Winds and Convective Risk. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 82-103.	0.4	3
25	Jovian Capture of a Spacecraft with a Self-Balanced Electrodynamic Bare Tether. <i>Journal of Spacecraft and Rockets</i> , 2014, 51, 1401-1412.	1.9	2
26	Trajectory Analysis Between Quasi-Periodic Orbits and the Lagrangian Points Around Phobos. , 2014, ,		2
27	Automated optimal flight planning based on the aircraft intent description language. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019, 233, 928-948.	1.3	2
28	Track-to-track association methodology for operational surveillance scenarios with radar observations. <i>CEAS Space Journal</i> , 0, ,	2.3	2
29	Wind-optimal cruise trajectories using pseudospectral methods and ensemble probabilistic forecasts. , 2015, ,		1
30	Optimal Aircraft Trajectory Planning in the Presence of Stochastic Convective Weather Cells. , 2017, ,		1
31	Asymptotic Solution for the Low-Thrust Restricted Two-Body Problem. , 2012, ,		0
32	Modeling and Simulation of Flexible Tethered Satellite System. , 2018, ,		0