

Juan FÃ©lix San-Juan

List of Publications by Year in descending order

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48
all docs

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docs citations

48
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164
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Orbit Propagator Based on Neural Networks. Multivariate Time Series Forecasting Approach. Advances in Intelligent Systems and Computing, 2022, , 695-705.	0.5	1
2	Uncertainty Propagation Using Hybrid Methods. Advances in Intelligent Systems and Computing, 2021, , 709-717.	0.5	0
3	Exploring the long-term dynamics of perturbed Keplerian motion in high degree potential fields. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105053.	1.7	10
4	Extending the hybrid methodology for orbit propagation by fitting techniques. Neurocomputing, 2019, 354, 49-60.	3.5	1
5	High-Fidelity Semianalytical Theory for a Low Lunar Orbit. Journal of Guidance, Control, and Dynamics, 2019, 42, 163-167.	1.6	1
6	GITHUB AND GITHUB CLASSROOM AS AN EDUCATIONAL RESOURCE. , 2019, , .		0
7	Optimal Earth's reentry disposal of the Galileo constellation. Advances in Space Research, 2018, 61, 1097-1120.	1.2	15
8	HEOSAT: a mean elements orbit propagator program for highly elliptical orbits. CEAS Space Journal, 2018, 10, 3-23.	1.1	15
9	The solution of the generalized Kepler's equation. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2583-2589.	1.6	4
10	Multiple Revolution Perturbed Lambert Problem Solvers. Journal of Guidance, Control, and Dynamics, 2018, 41, 2019-2032.	1.6	21
11	Hybrid SGP4 orbit propagator. Acta Astronautica, 2017, 137, 254-260.	1.7	21
12	Forecasting Satellite Trajectories by Interpolating Hybrid Orbit Propagators. Lecture Notes in Computer Science, 2017, , 650-661.	1.0	1
13	Hybrid perturbation methods based on statistical time series models. Advances in Space Research, 2016, 57, 1641-1651.	1.2	8
14	A Note about Certain Arbitrariness in the Solution of the Homological Equation in Deprit's Method. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	3
15	End-of-life disposal of high elliptical orbit missions: The case of INTEGRAL. Advances in Space Research, 2015, 56, 479-493.	1.2	22
16	Numerical Validation of the Delaunay Normalization and the Krylov-Bogoliubov-Mitropolsky Method. Mathematical Problems in Engineering, 2014, 2014, 1-14.	0.6	0
17	Delaunay variables approach to the elimination of the perigee in Artificial Satellite Theory. Celestial Mechanics and Dynamical Astronomy, 2014, 120, 39-56.	0.5	24
18	Efficient semi-analytic integration of GNSS orbits under tesseral effects. Acta Astronautica, 2014, 102, 355-366.	1.7	4

#	ARTICLE	IF	CITATIONS
19	Long-term evolution of Galileo operational orbits by canonical perturbation theory. Acta Astronautica, 2014, 94, 646-655.	1.7	7
20	an e-Science project in Astrodynamics and Celestial Mechanics fields. Computer Physics Communications, 2013, 184, 1381-1386.	3.0	1
21	Precise Analytical Computation of Frozen-Eccentricity, Low Earth Orbits in a Tesseral Potential. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	6
22	Averaging Tesseral Effects: Closed Form Relegation versus Expansions of Elliptic Motion. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	7
23	Application of Computational Intelligence in Order to Develop Hybrid Orbit Propagation Methods. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	10
24	Deprit's Elimination of the Parallax Revisited. Journal of the Astronautical Sciences, 2013, 60, 137-148.	0.8	4
25	An Economic Hybrid Analytical Orbit Propagator Program Based on SARIMA Models. Mathematical Problems in Engineering, 2012, 2012, 1-15.	0.6	8
26	Higher-Order Analytical Attitude Propagation of an Oblate Rigid Body under Gravity-Gradient Torque. Mathematical Problems in Engineering, 2012, 2012, 1-15.	0.6	1
27	Semianalytic Integration of High-Altitude Orbits under Lunisolar Effects. Mathematical Problems in Engineering, 2012, 2012, 1-17.	0.6	6
28	On Bounded Satellite Motion under Constant Radial Propulsive Acceleration. Mathematical Problems in Engineering, 2012, 2012, 1-12.	0.6	7
29	On the third-body perturbations of high-altitude orbits. Celestial Mechanics and Dynamical Astronomy, 2012, 113, 435-452.	0.5	22
30	PPKBZ9 \mathcal{A} , \mathcal{S} \mathcal{A} Two Orbit Propagators Based on an Analytical Theory. Journal of the Astronautical Sciences, 2011, 58, 643-660.	0.8	3
31	Deep Resonant GPS-Dynamics Due to the Geopotential. Journal of the Astronautical Sciences, 2011, 58, 661-676.	0.8	8
32	Hybrid Analytical-Statistical Models. Lecture Notes in Computer Science, 2011, , 450-462.	1.0	0
33	NonDyWebTools an e-Science and e-Learning project. , 2010, , .		0
34	Symbolic-Numeric Cooperation in an Open Science Project. , 2010, , .		0
35	A note on lower bounds for relative equilibria in the main problem of artificial satellite theory. Celestial Mechanics and Dynamical Astronomy, 2007, 99, 69-83.	0.5	8
36	Phase Space Structure Around Oblate Planetary Satellites. Journal of Guidance, Control, and Dynamics, 2006, 29, 113-120.	1.6	20

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37	Dynamic Behavior of an Orbiter around Europa. Journal of Guidance, Control, and Dynamics, 2005, 28, 291-297.	1.6	42
38	Secular motion around synchronously orbiting planetary satellites. Chaos, 2005, 15, 043101.	1.0	11
39	First-Order Analytical Solution for Spacecraft Motion About (433) Eros. Journal of Guidance, Control, and Dynamics, 2004, 27, 290-293.	1.6	11
40	Is symbolic integration better than numerical integration in satellite dynamics?. Applied Mathematics Letters, 2004, 17, 59-63.	1.5	5
41	Symbolic Solution of Kepler's Generalized Equation. Lecture Notes in Computer Science, 2003, , 858-866.	1.0	1
42	Communications between the Poisson series processor PSpC and general scientific software. Mathematics and Computers in Simulation, 2001, 57, 307-315.	2.4	1
43	Short Term Evolution of Artificial Satellites. Celestial Mechanics and Dynamical Astronomy, 2001, 79, 277-296.	0.5	17
44	ATESAT: A symbolic processor for artificial satellite theory. Mathematics and Computers in Simulation, 1998, 45, 497-510.	2.4	12
45	The Hénon and Heiles Problem in Three Dimensions.. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1199-1213.	0.7	20
46	The Hénon and Heiles Problem in Three Dimensions.. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1215-1229.	0.7	16
47	On the Hénon and Heiles system in three dimensions: The role of the axial symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 228, 255-260.	0.9	6