

Xiaoli Bai

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

439
citations

758635

12
h-index

794141

19
g-index

27
all docs

27
docs citations

27
times ranked

232
citing authors

#	ARTICLE	IF	CITATIONS
1	A medium-scale study of using machine learning fusion to improve TLE prediction precision without external information. Acta Astronautica, 2023, 204, 477-491.	1.7	0
2	Improving Accuracy and Precision through Machine Learning Fusion using Two-Line Element Sets. , 2022, , .		0
3	Fusion of a machine learning approach and classical orbit predictions. Acta Astronautica, 2021, 184, 222-240.	1.7	12
4	Gaussian-Binary classification for resident space object maneuver detection. Acta Astronautica, 2021, 187, 438-446.	1.7	10
5	Machine Learning Approach to Improve Satellite Orbit Prediction Accuracy Using Publicly Available Data. Journal of the Astronautical Sciences, 2020, 67, 762-793.	0.8	22
6	Jacobiâ€¦Picard iteration method for the numerical solution of nonlinear initial value problems. Mathematical Methods in the Applied Sciences, 2020, 43, 1084-1111.	1.2	7
7	Disturbance Estimation and Rejection for Aircraft Glideslope Regulation in Turbulence : A Matrix SOS Approach. , 2020, , .		0
8	Markov Chain Monte Carlo Extensions to Gaussian Processes Approach on Orbit Predictions. , 2020, , .		0
9	Comparative evaluation of three machine learning algorithms on improving orbit prediction accuracy. Astrodynamics, 2019, 3, 325-343.	1.5	23
10	A K Nearest Neighborhood-Based Wind Estimation for Rotary-Wing VTOL UAVs. Drones, 2019, 3, 31.	2.7	14
11	Gaussian Processes for improving orbit prediction accuracy. Acta Astronautica, 2019, 161, 44-56.	1.7	25
12	Nonlinear Disturbance Observer based Control for Polynomial Systems with Mismatched Uncertainties using Sum-of-Squares Programming. , 2019, , .		1
13	Quadrotor Autonomous Approaching and Landing on a Vessel Deck. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 92, 125-143.	2.0	29
14	Natural deep space satellite constellation in the Earth-Moon elliptic system. Acta Astronautica, 2018, 153, 240-258.	1.7	8
15	Using Artificial Neural Network in Machine Learning Approach to Improve Orbit Prediction Accuracy. , 2018, , .		3
16	Exploring Capability of Support Vector Machine for Improving Satellite Orbit Prediction Accuracy. Journal of Aerospace Information Systems, 2018, 15, 366-381.	1.0	25
17	Improving orbit prediction accuracy through supervised machine learning. Advances in Space Research, 2018, 61, 2628-2646.	1.2	54
18	Artificial Equilibrium Points near Irregular-Shaped Asteroids with Continuous Thrust. Journal of Guidance, Control, and Dynamics, 2018, 41, 1308-1319.	1.6	15

#	ARTICLE	IF	CITATIONS
19	Recovering area-to-mass ratio of resident space objects through data mining. Acta Astronautica, 2018, 142, 75-86.	1.7	10
20	Image-based Space Object Reconstruction and Relative Motion Estimation using Incremental Structure from Motion. , 2018, , .		0
21	Stochastic Model Predictive Control for Gust Alleviation during Aircraft Carrier Landing. , 2018, , .		4
22	Artificial Neural Network-Based Machine Learning Approach to Improve Orbit Prediction Accuracy. Journal of Spacecraft and Rockets, 2018, 55, 1248-1260.	1.3	66
23	Bounded trajectories near collinear-like equilibrium points of elongated asteroids using linear control. Astrophysics and Space Science, 2017, 362, 1.	0.5	8
24	Efficient and Adaptive Orthogonal Finite Element Representation of the Geopotential. Journal of the Astronautical Sciences, 2017, 64, 118-155.	0.8	10
25	Continuation of periodic orbits in the Sun-Mercury elliptic restricted three-body problem. Communications in Nonlinear Science and Numerical Simulation, 2017, 47, 1-15.	1.7	21
26	Finite-time control for asteroid hovering and landing via terminal sliding-mode guidance. Acta Astronautica, 2017, 132, 78-89.	1.7	50
27	Picard Iteration, Chebyshev Polynomials and Chebyshev-Picard Methods: Application in Astrodynamics. Journal of the Astronautical Sciences, 2013, 60, 623-653.	0.8	22