

# 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	Artificial Neural Network-Based Machine Learning Approach to Improve Orbit Prediction Accuracy. <i>Journal of Spacecraft and Rockets</i> , 2018, 55, 1248-1260.	1.3	66
2	Improving orbit prediction accuracy through supervised machine learning. <i>Advances in Space Research</i> , 2018, 61, 2628-2646.	1.2	54
3	Finite-time control for asteroid hovering and landing via terminal sliding-mode guidance. <i>Acta Astronautica</i> , 2017, 132, 78-89.	1.7	50
4	Quadrotor Autonomous Approaching and Landing on a Vessel Deck. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 92, 125-143.	2.0	29
5	Exploring Capability of Support Vector Machine for Improving Satellite Orbit Prediction Accuracy. <i>Journal of Aerospace Information Systems</i> , 2018, 15, 366-381.	1.0	25
6	Gaussian Processes for improving orbit prediction accuracy. <i>Acta Astronautica</i> , 2019, 161, 44-56.	1.7	25
7	Comparative evaluation of three machine learning algorithms on improving orbit prediction accuracy. <i>Astrodynamics</i> , 2019, 3, 325-343.	1.5	23
8	Picard Iteration, Chebyshev Polynomials and Chebyshev-Picard Methods: Application in Astrodynamics. <i>Journal of the Astronautical Sciences</i> , 2013, 60, 623-653.	0.8	22
9	Machine Learning Approach to Improve Satellite Orbit Prediction Accuracy Using Publicly Available Data. <i>Journal of the Astronautical Sciences</i> , 2020, 67, 762-793.	0.8	22
10	Continuation of periodic orbits in the Sun-Mercury elliptic restricted three-body problem. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 47, 1-15.	1.7	21
11	Artificial Equilibrium Points near Irregular-Shaped Asteroids with Continuous Thrust. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 1308-1319.	1.6	15
12	A K Nearest Neighborhood-Based Wind Estimation for Rotary-Wing VTOL UAVs. <i>Drones</i> , 2019, 3, 31.	2.7	14
13	Fusion of a machine learning approach and classical orbit predictions. <i>Acta Astronautica</i> , 2021, 184, 222-240.	1.7	12
14	Efficient and Adaptive Orthogonal Finite Element Representation of the Geopotential. <i>Journal of the Astronautical Sciences</i> , 2017, 64, 118-155.	0.8	10
15	Recovering area-to-mass ratio of resident space objects through data mining. <i>Acta Astronautica</i> , 2018, 142, 75-86.	1.7	10
16	Gaussian-Binary classification for resident space object maneuver detection. <i>Acta Astronautica</i> , 2021, 187, 438-446.	1.7	10
17	Bounded trajectories near collinear-like equilibrium points of elongated asteroids using linear control. <i>Astrophysics and Space Science</i> , 2017, 362, 1.	0.5	8
18	Natural deep space satellite constellation in the Earth-Moon elliptic system. <i>Acta Astronautica</i> , 2018, 153, 240-258.	1.7	8

#	ARTICLE	IF	CITATIONS
19	Jacobiâ€Picard iteration method for the numerical solution of nonlinear initial value problems. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 1084-1111.	1.2	7
20	Stochastic Model Predictive Control for Gust Alleviation during Aircraft Carrier Landing. , 2018, , .		4
21	Using Artificial Neural Network in Machine Learning Approach to Improve Orbit Prediction Accuracy. , 2018, , .		3
22	Nonlinear Disturbance Observer based Control for Polynomial Systems with Mismatched Uncertainties using Sum-of-Squares Programming. , 2019, , .		1
23	Image-based Space Object Reconstruction and Relative Motion Estimation using Incremental Structure from Motion. , 2018, , .		0
24	Disturbance Estimation and Rejection for Aircraft Glideslope Regulation in Turbulence : A Matrix SOS Approach. , 2020, , .		0
25	Markov Chain Monte Carlo Extensions to Gaussian Processes Approach on Orbit Predictions. , 2020, , .		0
26	Improving Accuracy and Precision through Machine Learning Fusion using Two-Line Element Sets. , 2022, , .		0
27	A medium-scale study of using machine learning fusion to improve TLE prediction precision without external information. <i>Acta Astronautica</i> , 2023, 204, 477-491.	1.7	0