

Fanghua Jiang

List of Publications by Year in descending order

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28
papers

1,031
citations

471509

17
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

324
citing authors

#	ARTICLE	IF	CITATIONS
1	GTOC 11: Results from Tsinghua University and Shanghai Institute of Satellite Engineering. <i>Acta Astronautica</i> , 2023, 202, 819-828.	3.2	6
2	Analytical shaping method for low-thrust rendezvous trajectory using cubic spline functions. <i>Acta Astronautica</i> , 2022, 193, 511-520.	3.2	7
3	Adaptive neural network control of nonlinear systems with unknown dynamics. <i>Advances in Space Research</i> , 2021, 67, 1114-1123.	2.6	32
4	Multiconstrained Real-Time Entry Guidance Using Deep Neural Networks. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021, 57, 325-340.	4.7	51
5	Rapid generation of low-thrust many-revolution earth-center trajectories based on analytical state-based control. <i>Acta Astronautica</i> , 2021, 187, 338-347.	3.2	10
6	Minimum-time low-thrust many-revolution geocentric trajectories with analytical costates initialization. <i>Aerospace Science and Technology</i> , 2021, 119, 107146.	4.8	19
7	Fast solution continuation of time-optimal asteroid landing trajectories using deep neural networks. <i>Acta Astronautica</i> , 2020, 167, 63-72.	3.2	23
8	Optimization of Low-Thrust Gravity-Assist Trajectories via Optimality-Preserving Transformation. , 2020, , .		0
9	Fast Generation of Optimal Asteroid Landing Trajectories Using Deep Neural Networks. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 2642-2655.	4.7	47
10	Polynomial-based method for determining coast-terminating zero of fuel-optimal time-fixed trajectory. <i>Astrophysics and Space Science</i> , 2020, 365, 1.	1.4	0
11	Real-time optimal control for irregular asteroid landings using deep neural networks. <i>Acta Astronautica</i> , 2020, 170, 66-79.	3.2	79
12	An identifier-actor-optimizer policy learning architecture for optimal control of continuous-time nonlinear systems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	2
13	Optimization of variable-specific-impulse gravity-assist trajectories via optimality-preserving transformation. <i>Aerospace Science and Technology</i> , 2020, 101, 105828.	4.8	8
14	Real-time control for fuel-optimal Moon landing based on an interactive deep reinforcement learning algorithm. <i>Astrodynamics</i> , 2019, 3, 375-386.	2.4	49
15	Real-Time Optimal Control for Spacecraft Orbit Transfer via Multiscale Deep Neural Networks. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 2436-2450.	4.7	72
16	Fuel-Optimal Low-Thrust Trajectory Optimization Using Indirect Method and Successive Convex Programming. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018, 54, 2053-2066.	4.7	57
17	Optimization of observing sequence based on nominal trajectories of symmetric observing configuration. <i>Astrodynamics</i> , 2018, 2, 25-37.	2.4	19
18	Power-limited low-thrust trajectory optimization with operation point detection. <i>Astrophysics and Space Science</i> , 2018, 363, 1.	1.4	14

#	ARTICLE	IF	CITATIONS
19	Problem A of the 9th China trajectory optimization competition: Results found at Tsinghua University. <i>Acta Astronautica</i> , 2018, 150, 204-212.	3.2	7
20	Improving Low-Thrust Trajectory Optimization by Adjoint Estimation with Shape-Based Path. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 3282-3289.	2.8	48
21	Systematic low-thrust trajectory optimization for a multi-rendezvous mission using adjoint scaling. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	25
22	Capture of near-Earth objects with low-thrust propulsion and invariant manifolds. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	29
23	Artificial Martian frozen orbits and Sun-Synchronous orbits using continuous low-thrust control. <i>Astrophysics and Space Science</i> , 2014, 352, 503-514.	1.4	9
24	Pseudospectral Methods for Trajectory Optimization with Interior Point Constraints: Verification and Applications. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2013, 49, 2005-2017.	4.7	39
25	Practical Techniques for Low-Thrust Trajectory Optimization with Homotopic Approach. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 245-258.	2.8	263
26	Homotopic approach and pseudospectral method applied jointly to low thrust trajectory optimization. <i>Acta Astronautica</i> , 2012, 71, 38-50.	3.2	82
27	Fuel optimal low thrust rendezvous with outer planets via gravity assist. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 756-769.	5.1	16
28	Trajectory Optimization of Multi-Asteroids Exploration with Low Thrust. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2009, 52, 47-54.	0.7	18