

Fanghua Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Homotopic approach and pseudospectral method applied jointly to low thrust trajectory optimization. <i>Acta Astronautica</i> , 2012, 71, 38-50. | 3.2 | 82 |
| 3 | Real-time optimal control for irregular asteroid landings using deep neural networks. <i>Acta Astronautica</i> , 2020, 170, 66-79. | 3.2 | 79 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 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 | 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 |
| 11 | Adaptive neural network control of nonlinear systems with unknown dynamics. <i>Advances in Space Research</i> , 2021, 67, 1114-1123. | 2.6 | 32 |
| 12 | Capture of near-Earth objects with low-thrust propulsion and invariant manifolds. <i>Astrophysics and Space Science</i> , 2016, 361, 1. | 1.4 | 29 |
| 13 | 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 |
| 14 | Fast solution continuation of time-optimal asteroid landing trajectories using deep neural networks. <i>Acta Astronautica</i> , 2020, 167, 63-72. | 3.2 | 23 |
| 15 | Optimization of observing sequence based on nominal trajectories of symmetric observing configuration. <i>Astrodynamics</i> , 2018, 2, 25-37. | 2.4 | 19 |
| 16 | Minimum-time low-thrust many-revolution geocentric trajectories with analytical costates initialization. <i>Aerospace Science and Technology</i> , 2021, 119, 107146. | 4.8 | 19 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Power-limited low-thrust trajectory optimization with operation point detection. <i>Astrophysics and Space Science</i> , 2018, 363, 1. | 1.4 | 14 |
| 20 | 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 |
| 21 | 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 |
| 22 | Optimization of variable-specific-impulse gravity-assist trajectories via optimality-preserving transformation. <i>Aerospace Science and Technology</i> , 2020, 101, 105828. | 4.8 | 8 |
| 23 | 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 |
| 24 | Analytical shaping method for low-thrust rendezvous trajectory using cubic spline functions. <i>Acta Astronautica</i> , 2022, 193, 511-520. | 3.2 | 7 |
| 25 | GTOC 11: Results from Tsinghua University and Shanghai Institute of Satellite Engineering. <i>Acta Astronautica</i> , 2023, 202, 819-828. | 3.2 | 6 |
| 26 | 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 |
| 27 | Optimization of Low-Thrust Gravity-Assist Trajectories via Optimality-Preserving Transformation. , 2020, , . | | 0 |
| 28 | 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 |