Xinfu Liu

List of Publications by Year
in descending order

22	1,335	759233	1058476
papers	citations	12	14
		h-index	g-index

22	22	22	433
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solving Nonconvex Optimal Control Problems by Convex Optimization. Journal of Guidance, Control, and Dynamics, 2014, 37, 750-765.	2.8	236
2	Autonomous Trajectory Planning for Rendezvous and Proximity Operations by Conic Optimization. Journal of Guidance, Control, and Dynamics, 2013, 36, 375-389.	2.8	218
3	Entry Trajectory Optimization by Second-Order Cone Programming. Journal of Guidance, Control, and Dynamics, 2016, 39, 227-241.	2.8	207
4	Survey of convex optimization for aerospace applications. Astrodynamics, 2017, 1, 23-40.	2.4	206
5	Exact convex relaxation for optimal flight of aerodynamically controlled missiles. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1881-1892.	4.7	84
6	Closed-Loop Optimization of Guidance Gain for Constrained Impact. Journal of Guidance, Control, and Dynamics, 2017, 40, 453-460.	2.8	77
7	Fuel-Optimal Rocket Landing with Aerodynamic Controls. Journal of Guidance, Control, and Dynamics, 2019, 42, 65-77.	2.8	73
8	Solving the maximum-crossrange problem via successive second-order cone programming with a line search. Aerospace Science and Technology, 2015, 47, 10-20.	4.8	60
9	Rapid Smooth Entry Trajectory Planning for High Lift/Drag Hypersonic Glide Vehicles. Journal of Optimization Theory and Applications, 2016, 168, 917-943.	1.5	36
10	Fuel-optimal powered descent guidance with free final-time and path constraints. Acta Astronautica, 2020, 172, 70-81.	3.2	32
11	Robust Trajectory Optimization for Highly Constrained Rendezvous and Proximity Operations. , 2013, , .		26
12	Trajectory optimization for accompanying satellite obstacle avoidance. Aerospace Science and Technology, 2018, 82-83, 220-233.	4.8	20
13	A new method for solving reachable domain of spacecraft with a single impulse. Acta Astronautica, 2018, 145, 153-164.	3.2	17
14	Fuel-Optimal Rocket Landing with Aerodynamic Controls. , 2017, , .		13
15	Comparison of Convex Optimization-Based Approaches to Solve Nonconvex Optimal Control Problems. , 2019, , .		7
16	Convergence-Guaranteed Trajectory Planning for a Class of Nonlinear Systems With Nonconvex State Constraints. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 2243-2256.	4.7	7
17	UAV Collision Avoidance Using Mixed-Integer Second-Order Cone Programming. Journal of Guidance, Control, and Dynamics, 2022, 45, 1732-1738.	2.8	6
18	Solving Non-Convex Optimal Control Problems by Convex Optimization. , 2013, , .		4

#	Article	IF	Citations
19	Fast Three-Dimensional Path Planning with Obstacle Avoidance Constraints. , 2019, , .		3
20	Fast Trajectory Optimization for Quadrotor Landing on a Moving Platform. , 2020, , .		3
21	A convex optimization-based approach for time-constrained hypersonic gliding. , 2016, , .		0
22	Gravity-Turn-Based Precise Landing Guidance for Reusable Rockets. Lecture Notes in Electrical Engineering, 2022, , 3423-3434.	0.4	0