Jafar Roshanian

List of Publications by Year
in descending order

48 papers	608 citations	687363 13 h-index	642732 23 g-index
49 all docs	49 docs citations	49 times ranked	516 citing authors

#	Article	IF	Citations
1	Aerospace launch vehicle control: an intelligent adaptive approach. Aerospace Science and Technology, 2006, 10, 149-155.	4.8	75
2	Optimal sliding-mode guidance with terminal velocity constraint for fixed-interval propulsive maneuvers. Acta Astronautica, 2008, 62, 556-562.	3.2	74
3	Latin hypercube sampling applied to reliability-based multidisciplinary design optimization of a launch vehicle. Aerospace Science and Technology, 2013, 28, 297-304.	4.8	62
4	An Optimal Guidance Law Applied to Quadrotor Using LQR Method. Transactions of the Japan Society for Aeronautical and Space Sciences, 2010, 53, 32-39.	0.7	28
5	Optimal Redundant Sensor Configuration for Accuracy and Reliability Increasing in Space Inertial Navigation Systems. Journal of Navigation, 2013, 66, 199-208.	1.7	27
6	Star identification based on euclidean distance transform, voronoi tessellation, and k-nearest neighbor classification. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2940-2949.	4.7	26
7	Multidisciplinary design of a small satellite launch vehicle using particle swarm optimization. Structural and Multidisciplinary Optimization, 2011, 44, 773-784.	3.5	25
8	Skid-to-turn missile autopilot design using scheduled eigenstructure assignment technique. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2006, 220, 225-239.	1.3	24
9	Effect of Variable Selection on Multidisciplinary Design Optimization: a Flight Vehicle Example. Chinese Journal of Aeronautics, 2007, 20, 86-96.	5.3	21
10	Multidisciplinary design optimization of a small solid propellant launch vehicle using system sensitivity analysis. Structural and Multidisciplinary Optimization, 2009, 38, 93-100.	3.5	21
11	A novel concept of VTOL bi-rotor UAV based on moving mass control. Aerospace Science and Technology, 2020, 107, 106238.	4.8	21
12	Flutter of wings involving a locally distributed flexible control surface. Journal of Sound and Vibration, 2015, 357, 377-408.	3.9	20
13	A novel aspect of composite sandwich fairing structure optimization of a two-stage launch vehicle (Safir) using multidisciplinary design optimization independent subspace approach. Aerospace Science and Technology, 2019, 84, 865-879.	4.8	16
14	Monte Carlo simulation of stage separation dynamics of a multistage launch vehicle. Applied Mathematics and Mechanics (English Edition), 2008, 29, 1411-1426.	3.6	13
15	Robust ascent trajectory design and optimization of a typical launch vehicle. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4601-4614.	2.1	13
16	A novel evolution control strategy for surrogate-assisted design optimization. Structural and Multidisciplinary Optimization, 2018, 58, 1255-1273.	3.5	13
17	DESIGN OF AN AEROSPACE LAUNCH VEHICLE AUTOPILOT BASED ON OPTIMIZED EMOTIONAL LEARNING ALGORITHM. Cybernetics and Systems, 2008, 39, 284-303.	2.5	12
18	Robust Nonlinear Optimal Solution to the Lunar Landing Guidance by Using Neighboring Optimal Control. Journal of Aerospace Engineering, 2011, 24, 20-30.	1.4	10

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19	Implementation of an Intelligent Adaptive Controller for an Electrohydraulic Servo System Based on a Brain Mechanism of Emotional Learning. International Journal of Advanced Robotic Systems, 2012, 9, 84.	2.1	10
20	Blind Star Identification Algorithm. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 547-557.	4.7	9
21	Time-varying transfer function extraction of an unstable launch vehicle via closed-loop identification. Aerospace Science and Technology, 2007, 11, 238-244.	4.8	8
22	Multi-objective collaborative multidisciplinary design optimization using particle swarm techniques and fuzzy decision making. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2281-2295.	2.1	8
23	Single and multiâ€point optimization of an airfoil using gradient method. Aircraft Engineering and Aerospace Technology, 2007, 79, 611-620.	0.8	7
24	An analytical guidance law of planetary landing mission by minimizing the control effort expenditure. Journal of Mechanical Science and Technology, 2009, 23, 3239-3244.	1.5	6
25	Multi-level of Fidelity Multi-Disciplinary Design Optimization of Small, Solid-Propellant Launch Vehicles. Transactions of the Japan Society for Aeronautical and Space Sciences, 2010, 53, 73-83.	0.7	6
26	LQR/LQG attitude stabilization of an agile microsatellite with CMG. Aircraft Engineering and Aerospace Technology, 2017, 89, 290-296.	1.2	6
27	Reduction of the actuator oscillations in a freeâ€"free jointed bipartite beam model under a follower force. Aerospace Science and Technology, 2012, 22, 45-57.	4.8	5
28	Design of liquid-propellant engine using collaborative optimization and evolutionary algorithms. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 232-242.	1.3	5
29	On estimation of vehicle linear model parameters. Aircraft Engineering and Aerospace Technology, 2009, 81, 432-438.	0.8	4
30	Application of PIV and Delaunay Triangulation Method for Satellite Angular Velocity Estimation Using Star Tracker. IEEE Sensors Journal, 2018, 18, 10105-10114.	4.7	4
31	Uniform Star Catalogue using GWKM Clustering for Application in Star Sensors. Journal of Navigation, 2019, 72, 948-964.	1.7	4
32	Online and stable parameter estimation based on normalized brain emotional learning model (NBELM). International Journal of Adaptive Control and Signal Processing, 2019, 33, 1047-1065.	4.1	4
33	On application of Q-guidance method for satellite launch systems. , 2010, , .		3
34	Multidisciplinary design optimization of space transportation control system using genetic algorithm. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 518-529.	1.3	3
35	Dynamic Sliding Mode Autopilot for Nonlinear Non-Minimum Phase Flight Vehicle. Transactions of the Japan Society for Aeronautical and Space Sciences, 2009, 51, 236-243.	0.7	2
36	Multidisciplinary Design Optimization Approach for a Small Solid Propellant Launch Vehicle Conceptual Design Using Hybrid Simulated Annealing. Applied Mechanics and Materials, 0, 110-116, 4765-4771.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Quaternion-based attitude control design and hardware-in-the-loop simulation of suborbital modules with cold gas thrusters. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 717-735.	1.3	2
38	Control-Oriented Fuzzy Multi-Model Identification of a Highly Nonlinear Missile. , 2006, , .		1
39	Hybrid search multi-discipline feasible design optimization of a typical Space Launch Vehicle. , 2015, , .		1
40	On-line attitude perturbation estimation in the earth-orbiting satellite. Aerospace Science and Technology, 2017, 70, 189-197.	4.8	1
41	A reliable analytical navigation system based on symmetrical dynamic behavior of control channels. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 190-199.	1.3	1
42	Approximately optimal manoeuvre strategy for aero-assisted space mission. Advances in Space Research, 2019, 64, 436-450.	2.6	1
43	Novel model reference adaptive control with application to wing rock example. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 1911-1929.	1.3	1
44	Analytical fault tolerant navigation system for an aerospace launch vehicle using sliding mode observer. Advances in Aircraft and Spacecraft Science, 2017, 4, 53-64.	0.5	1
45	Gain-scheduled flight control law design using a new fuzzy clustering technique. , 2007, , .		0
46	Minimum time multiple-burn optimization of an upper stage with a finite thrust for satellite injection into geostationary orbit. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 1542-1558.	1.3	0
47	Semi€feedback optimal control design for nonlinear problems. Optimal Control Applications and Methods, 2018, 39, 549-562.	2.1	0
48	Determination of Nonlinear Optimal Feedback Law for Satellite Injection Problem Using Neighboring Optimal Control. American Journal of Applied Sciences, 2009, 6, 430-438.	0.2	0