

Jafar Roshanian

List of Publications by Year in descending order

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48
papers

608
citations

687363

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642732

23
g-index

49
all docs

49
docs citations

49
times ranked

516
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Blind Star Identification Algorithm. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 547-557.	4.7	9
3	A novel concept of VTOL bi-rotor UAV based on moving mass control. Aerospace Science and Technology, 2020, 107, 106238.	4.8	21
4	Uniform Star Catalogue using GWKM Clustering for Application in Star Sensors. Journal of Navigation, 2019, 72, 948-964.	1.7	4
5	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
6	Approximately optimal manoeuvre strategy for aero-assisted space mission. Advances in Space Research, 2019, 64, 436-450.	2.6	1
7	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
8	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
9	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
10	Semi-feedback optimal control design for nonlinear problems. Optimal Control Applications and Methods, 2018, 39, 549-562.	2.1	0
11	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
12	A novel evolution control strategy for surrogate-assisted design optimization. Structural and Multidisciplinary Optimization, 2018, 58, 1255-1273.	3.5	13
13	LQR/LQG attitude stabilization of an agile microsatellite with CMG. Aircraft Engineering and Aerospace Technology, 2017, 89, 290-296.	1.2	6
14	On-line attitude perturbation estimation in the earth-orbiting satellite. Aerospace Science and Technology, 2017, 70, 189-197.	4.8	1
15	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
16	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
17	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
18	Hybrid search multi-discipline feasible design optimization of a typical Space Launch Vehicle. , 2015, , ,		1

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19	Flutter of wings involving a locally distributed flexible control surface. Journal of Sound and Vibration, 2015, 357, 377-408.	3.9	20
20	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
21	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
22	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
23	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
24	Optimal Redundant Sensor Configuration for Accuracy and Reliability Increasing in Space Inertial Navigation Systems. Journal of Navigation, 2013, 66, 199-208.	1.7	27
25	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
26	Reduction of the actuator oscillations in a free-free jointed bipartite beam model under a follower force. Aerospace Science and Technology, 2012, 22, 45-57.	4.8	5
27	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
28	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
29	Multidisciplinary design of a small satellite launch vehicle using particle swarm optimization. Structural and Multidisciplinary Optimization, 2011, 44, 773-784.	3.5	25
30	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
31	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
32	On application of Q-guidance method for satellite launch systems. , 2010, , .		3
33	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
34	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
35	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
36	On estimation of vehicle linear model parameters. Aircraft Engineering and Aerospace Technology, 2009, 81, 432-438.	0.8	4

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37	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
38	Optimal sliding-mode guidance with terminal velocity constraint for fixed-interval propulsive maneuvers. Acta Astronautica, 2008, 62, 556-562.	3.2	74
39	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
40	DESIGN OF AN AEROSPACE LAUNCH VEHICLE AUTOPILOT BASED ON OPTIMIZED EMOTIONAL LEARNING ALGORITHM. Cybernetics and Systems, 2008, 39, 284-303.	2.5	12
41	Gain-scheduled flight control law design using a new fuzzy clustering technique. , 2007, , .		0
42	Single and multi-point optimization of an airfoil using gradient method. Aircraft Engineering and Aerospace Technology, 2007, 79, 611-620.	0.8	7
43	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
44	Effect of Variable Selection on Multidisciplinary Design Optimization: a Flight Vehicle Example. Chinese Journal of Aeronautics, 2007, 20, 86-96.	5.3	21
45	Control-Oriented Fuzzy Multi-Model Identification of a Highly Nonlinear Missile. , 2006, , .		1
46	Aerospace launch vehicle control: an intelligent adaptive approach. Aerospace Science and Technology, 2006, 10, 149-155.	4.8	75
47	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
48	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