

Honghua Dai, ä»£æ'ª•

List of Publications by Year in descending order

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34
papers

966
citations

430874

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all docs

34
docs citations

34
times ranked

595
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning-Based Adaptive Attitude Control of Spacecraft Formation With Guaranteed Prescribed Performance. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 4004-4016.	9.5	129
2	Post-capture vibration suppression of spacecraft via a bio-inspired isolation system. <i>Mechanical Systems and Signal Processing</i> , 2018, 105, 214-240.	8.0	116
3	Robust inertia-free attitude takeover control of postcapture combined spacecraft with guaranteed prescribed performance. <i>ISA Transactions</i> , 2018, 74, 28-44.	5.7	55
4	Accurate modeling and analysis of a bio-inspired isolation system: with application to on-orbit capture. <i>Mechanical Systems and Signal Processing</i> , 2018, 109, 111-133.	8.0	54
5	Bio-inspired anti-impact manipulator for capturing non-cooperative spacecraft: theory and experiment. <i>Mechanical Systems and Signal Processing</i> , 2020, 142, 106785.	8.0	45
6	Learning-based adaptive prescribed performance control of postcapture space robot-target combination without inertia identifications. <i>Acta Astronautica</i> , 2018, 146, 228-242.	3.2	44
7	Observation and evolution of chaos for a cantilever plate in supersonic flow. <i>Journal of Fluids and Structures</i> , 2014, 50, 271-291.	3.4	41
8	A time domain collocation method for studying the aeroelasticity of a two dimensional airfoil with a structural nonlinearity. <i>Journal of Computational Physics</i> , 2014, 270, 214-237.	3.8	40
9	A comparison of classical Runge-Kutta and Henon's methods for capturing chaos and chaotic transients in an aeroelastic system with freeplay nonlinearity. <i>Nonlinear Dynamics</i> , 2015, 81, 169-188.	5.2	39
10	Low-complexity differentiator-based decentralized fault-tolerant control of uncertain large-scale nonlinear systems with unknown dead zone. <i>Nonlinear Dynamics</i> , 2017, 89, 2573-2592.	5.2	39
11	Subharmonics and ultra-subharmonics of a bio-inspired nonlinear isolation system. <i>International Journal of Mechanical Sciences</i> , 2019, 152, 167-184.	6.7	39
12	Adaptive model-free constrained control of postcapture flexible spacecraft: a Euler-Lagrange approach. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 4885-4903.	2.6	34
13	Proper orthogonal decomposition method for analysis of nonlinear panel flutter with thermal effects in supersonic flow. <i>Journal of Sound and Vibration</i> , 2015, 337, 263-283.	3.9	31
14	Chaos and chaotic transients in an aeroelastic system. <i>Journal of Sound and Vibration</i> , 2014, 333, 7267-7285.	3.9	30
15	Vibration suppression for post-capture spacecraft via a novel bio-inspired Stewart isolation system. <i>Acta Astronautica</i> , 2020, 168, 1-22.	3.2	24
16	Estimation of inertial characteristics of tumbling spacecraft using constant state filter. <i>Advances in Space Research</i> , 2017, 60, 513-530.	2.6	19
17	Robust LS-SVM-based adaptive constrained control for a class of uncertain nonlinear systems with time-varying predefined performance. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 56, 561-587.	3.3	19
18	Event-triggered neuroadaptive control for postcapture spacecraft with ultralow-frequency actuator updates. <i>Neurocomputing</i> , 2018, 315, 310-321.	5.9	19

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19	Globally robust explicit model predictive control of constrained systems exploiting SVM-based approximation. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 3000-3027.	3.7	18
20	A fast harmonic balance technique for periodic oscillations of an aeroelastic airfoil. <i>Journal of Fluids and Structures</i> , 2014, 50, 231-252.	3.4	17
21	Feedback-Accelerated Picard Iteration for Orbit Propagation and Lambert's Problem. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 2442-2451.	2.8	17
22	Analysis of internal resonance in a two-degree-of-freedom nonlinear dynamical system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 49, 176-191.	3.3	16
23	Efficient adaptive constrained control with time-varying predefined performance for a hypersonic flight vehicle. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141668750.	2.1	13
24	Solutions of the von Kármán plate equations by a Galerkin method, without inverting the tangent stiffness matrix. <i>Journal of Mechanics of Materials and Structures</i> , 2014, 9, 195-226.	0.6	12
25	Dealiasing harmonic balance method for obtaining periodic solutions of an aeroelastic system. <i>Aerospace Science and Technology</i> , 2018, 77, 244-255.	4.8	9
26	Effects of damage parametric changes on the aeroelastic behaviors of a damaged panel. <i>Nonlinear Dynamics</i> , 2019, 97, 1035-1050.	5.2	9
27	A multiple scale time domain collocation method for solving non-linear dynamical system. <i>International Journal of Non-Linear Mechanics</i> , 2014, 67, 342-351.	2.6	8
28	New Look at Nonlinear Aerodynamics in Analysis of Hypersonic Panel Flutter. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-13.	1.1	8
29	Dynamic analysis of detumbling a rotating satellite using flexible deceleration rod. <i>Nonlinear Dynamics</i> , 2022, 108, 3331-3345.	5.2	8
30	Two-stage filter for inertia characteristics estimation of high-speed tumbling targets. <i>Aerospace Science and Technology</i> , 2019, 89, 333-344.	4.8	7
31	Analysis of a Two-Dimensional Aeroelastic System Using the Differential Transform Method. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	1.2	2
32	Half-order optimally scaled Fourier expansion method for solving nonlinear dynamical system. <i>International Journal of Non-Linear Mechanics</i> , 2016, 87, 21-29.	2.6	2
33	Dynamics and control of a bio-inspired Stewart platform. <i>Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University</i> , 2021, 39, 258-266.	0.5	2
34	A Simple Time Domain Collocation Method to Precisely Search for the Periodic Orbits of Satellite Relative Motion. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-15.	1.1	1