Xingjian Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

88	1,016	393982	476904
papers	citations	19 h-index	29 g-index

90	90	90	636
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Remaining useful life prediction based on the Wiener process for an aviation axial piston pump. Chinese Journal of Aeronautics, 2016, 29, 779-788.	2.8	76
2	Adaptive decoupling synchronous control of dissimilar redundant actuation system for large civil aircraft. Aerospace Science and Technology, 2015, 47, 114-124.	2.5	71
3	A multi-source information fusion fault diagnosis for aviation hydraulic pump based on the new evidence similarity distance. Aerospace Science and Technology, 2017, 71, 392-401.	2.5	62
4	A new debris sensor based on dual excitation sources for online debris monitoring. Measurement Science and Technology, 2015, 26, 095101.	1.4	61
5	High Performance Adaptive Control of Mechanical Servo System With LuGre Friction Model: Identification and Compensation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	56
6	Active fault tolerant control for vertical tail damaged aircraft with dissimilar redundant actuation system. Chinese Journal of Aeronautics, 2016, 29, 1313-1325.	2.8	49
7	Active fault-tolerant control strategy of large civil aircraft under elevator failures. Chinese Journal of Aeronautics, 2015, 28, 1658-1666.	2.8	42
8	Linear Extended State Observer-Based Motion Synchronization Control for Hybrid Actuation System of More Electric Aircraft. Sensors, 2017, 17, 2444.	2.1	36
9	Motion synchronization in a dual redundant HA/EHA system by using a hybrid integrated intelligent control design. Chinese Journal of Aeronautics, 2016, 29, 789-798.	2.8	31
10	A Novel Indicator for Mechanical Failure and Life Prediction Based on Debris Monitoring. IEEE Transactions on Reliability, 2017, 66, 161-169.	3.5	28
11	Adaptive robust torque control of electric load simulator with strong position coupling disturbance. International Journal of Control, Automation and Systems, 2013, 11, 325-332.	1.6	27
12	Adaptive fuzzy robust control of PMSM with smooth inverse based dead-zone compensation. International Journal of Control, Automation and Systems, 2016, 14, 378-388.	1.6	27
13	DO-LPV-based robust 3D path following control of underactuated autonomous underwater vehicle with multiple uncertainties. ISA Transactions, 2020, 101, 189-203.	3.1	27
14	Three-dimensional formationâ€“containment control of underactuated AUVs with heterogeneous uncertain dynamics and system constraints. Ocean Engineering, 2021, 238, 109661.	1.9	26
15	sEMG-based consecutive estimation of human lower limb movement by using multi-branch neural network. Biomedical Signal Processing and Control, 2021, 68, 102781.	3.5	25
16	Adaptive Fuzzy Torque Control of Passive Torque Servo Systems Based on Small Gain Theorem and Input-to-state Stability. Chinese Journal of Aeronautics, 2012, 25, 906-916.	2.8	22
17	Active fault-tolerant control of dissimilar redundant actuation system based on performance degradation reference models. Journal of the Franklin Institute, 2017, 354, 1087-1108.	1.9	22
18	Variable load failure mechanism for high-speed load sensing electro-hydrostatic actuator pump of aircraft. Chinese Journal of Aeronautics, 2018, 31, 949-964.	2.8	22

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19	An accelerated life test model for solid lubricated bearings used in space based on time-varying dependence analysis of different failure modes. Acta Astronautica, 2018, 152, 352-359.	1.7	20
20	Electrical load simulator based on velocity-loop compensation and improved fuzzy-PID. , 2009, , .		19
21	Extended state observer-based motion synchronisation control for hybrid actuation system of large civil aircraft. International Journal of Systems Science, 2017, 48, 2212-2222.	3.7	19
22	A novel stress distribution analytical model of O-ring seals under different properties of materials. Journal of Mechanical Science and Technology, 2017, 31, 289-296.	0.7	18
23	Output torque tracking control of direct-drive rotary torque motor with dynamic friction compensation. Journal of the Franklin Institute, 2015, 352, 5361-5379.	1.9	15
24	Dynamic Friction Parameter Identification Method with LuGre Model for Direct-Drive Rotary Torque Motor. Mathematical Problems in Engineering, 2016, 2016, 1-8.	0.6	14
25	Adaptive robust control of linear electrical loading system with dynamic friction compensation. , 2010, , .		13
26	An accelerated life test model for harmonic drives under a segmental stress history and its parameter optimization. Chinese Journal of Aeronautics, 2015, 28, 1758-1765.	2.8	10
27	A position synchronization control for HA/EHA system. , 2015, , .		10
28	Design and Control of Bionic Manta Ray Robot With Flexible Pectoral Fin. , 2018, , .		10
29	Motion synchronization of HA/EHA system for a large civil aircraft by using adaptive control. , 2016, , .		9
30	A Glucose-Insulin Mixture Model and Application to Short-Term Hypoglycemia Prediction in the Night Time. IEEE Transactions on Biomedical Engineering, 2021, 68, 834-845.	2.5	9
31	A new dynamic seven-stage model for thickness prediction of the film between valve plate and cylinder block in axial piston pumps. Advances in Mechanical Engineering, 2016, 8, 168781401667144.	0.8	8
32	New approach of friction identification for electro-hydraulic servo system based on evolutionary algorithm and statistical logics with experiments. Journal of Mechanical Science and Technology, 2016, 30, 2311-2317.	0.7	7
33	Multi-Fault Diagnosis Approach Based on Updated Interacting Multiple Model for Aviation Hydraulic Actuator. Information (Switzerland), 2020, 11, 410.	1.7	7
34	Kinematic and Aerodynamic Investigation of the Butterfly in Forward Free Flight for the Butterfly-Inspired Flapping Wing Air Vehicle. Applied Sciences (Switzerland), 2021, 11, 2620.	1.3	7
35	Fuzzy Backstepping Torque Control Of Passive Torque Simulator With Algebraic Parameters Adaptation. Journal of Electrical Engineering, 2015, 66, 203-213.	0.4	6
36	Adaptive control for motion synchronization of HA/EHA system by using modified MIT rule. , 2016, , .		6

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37	Adaptive fuzzy control with smooth inverse for nonlinear systems preceded by non-symmetric dead-zone. International Journal of Systems Science, 2016, 47, 2237-2246.	3.7	6
38	A computationally efficient adaptive robust control scheme for a quad-rotor transporting cable-suspended payloads. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 379-395.	0.7	6
39	Cross-Correlation Algorithm-Based Optimization of Aliasing Signals for Inductive Debris Sensors. Sensors, 2020, 20, 5949.	2.1	5
40	Design and optimization of a novel throttling-inside-piston multi-stage hydraulic cylinder. Advances in Mechanical Engineering, 2015, 7, 168781401562290.	0.8	4
41	Passive fault -tolerant control for dissimilar redundant actuation system-based on LMI approach. , 2015, , .		4
42	Fault diagnosis method for vacuum pump of space environment simulator. , 2016, , .		4
43	Performance degradation model of roots pump in vacuum system based on leakage of rotor wear. , 2016, , .		4
44	Fault mode probability factor based fault-tolerant control for dissimilar redundant actuation system. Chinese Journal of Aeronautics, 2018, 31, 965-975.	2.8	4
45	A powered ankle prothesis driven by EHA technique. , 2018, , .		4
46	Dynamics and adaptive fault-tolerant flight control under structure damage of horizontal stabilizer. Aerospace Science and Technology, 2020, 106, 106135.	2.5	4
47	Design and Control of a Compliant Electro-Hydrostatic-Powered Ankle Prosthesis. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2429-2439.	3.7	4
48	Motion synchronization for the SHA/EMA hybrid actuation system by using an optimization algorithm. Automatika, 2021, 62, 503-512.	1.2	4
49	Synchronous controller design for dissimilar redundant actuation system of large civil aircraft. , 2015, , .		3
50	Fault tolerant control strategy based on actuation switch mechanism for more-electric aircraft with vertical tail damage. , 2017, , .		3
51	Active Fault-Tolerant Control Strategy for More Electric Aircraft under Actuation System Failure. Actuators, 2020, 9, 122.	1.2	3
52	An Adaptive Control Method for Electro-hydrostatic Actuator Based on Virtual Decomposition Control. , 2020, , .		3
53	Mission Oriented Flocking and Distributed Formation Control of UAVs. , 2021, , .		3
54	A SMO Based Position Sensorless Permanent Magnet Synchronous Motor Control Strategy. , 2020, , .		3

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55	Reliability modeling analysis for hydraulic/electro-hydrostatic dual redundant actuation system. , 2014, , .		2
56	Design and experimental test of an on-line particle detection sensor based on symmetrical magnetic field. , 2015, , .		2
57	LQR-MRC active fault tolerant control for more-electric aircraft without hydraulic power. , 2016, , .		2
58	Active fault-tolerant control strategy for lateral motion of civil aircraft. , 2016, , .		2
59	A multi-fault diagnosis strategy of electro-hydraulic servo actuation system based on extended Kalman filter. , 2017, , .		2
60	Fault tolerant control for vertical tail damaged Aircraft in final approach with switching LQR controller. , 2017, , .		2
61	Dynamic lubrication model for slipper/swashplate of high-speed electro-hydrostatic actuator pump. , 2017, , .		2
62	Trajectory Design and Adaptive Impedance Control of Lower Limb Exoskeleton. , 2021, , .		2
63	Adaptive Backstepping Control of Uncertain Electro-Hydrostatic Actuator with Unknown Dead-zone Nonlinearity. , 2021, , .		2
64	Overview of storage reliability for high reliability products. , 2012, , .		1
65	Adaptive fuzzy robust control of a class of nonlinear systems via small gain theorem. , 2012, , .		1
66	Adaptive Fuzzy Robust Control for a Class of Nonlinear Systems via Small Gain Theorem. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	1
67	Active fault tolerant control of a completely damaged vertical tail aircraft with differential engine thrust and left-over surfaces. , 2016, , .		1
68	Analytical study of magnetic field considering circumferential mover gaps in tubular linear oscillating motor. , 2017, , .		1
69	A Novel Conflicting Evidence Discounting Method Based on TOPSIS Decision-Making. , 2018, , .		1
70	A Survey on EEG-fNIRS based Non-invasive hBCIs. , 2021, , .		1
71	Wear modelling of slipper/swashplate pair for highspeed piston pump under transient lubrication conditions. , 2021, , .		1
72	Adaptive Model Predictive Control with Particle Filter for Artificial Pancreas. , 2021, , .		1

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73	A Half-bridge Strategy Based Fault-tolerant Control for BLDCM under Open Circuit Fault. , 2020, , .		1
74	Life estimation method of low-power sampling system. , 2014, , .		0
75	Gain scheduling controller of the aero-engine based on LPV model. , 2016, , .		0
76	Six-unit control volumes thermal model of the swashplate axial piston pump in electro-hydrostatic actuator systems. , 2016, , .		0
77	Two-dimension dynamic thermal circuit network model of cylinder. , 2016, , .		0
78	An observer-based baseline controller for vertical tail damaged aircraft. , 2016, , .		0
79	Three-dimension thermal slide rheostats analysis of cylinder with medium alternation. , 2016, , .		0
80	Active fault-tolerant controller design for load sensing electro-hydrostatic actuator with optimal reference model. , 2016, , .		0
81	Historical statistic based fault-tolerant control mechanism for dissimilar redundant actuation system with parameter uncertainty. , 2017, , .		0
82	Cross-correlation function based two-sensor auditory localization unit for chat robots. , 2018, , .		0
83	Remaining useful life prediction based on particle filtering for high-speed pump in load sensing electro-hydrostatic actuator. , 2018, , .		0
84	Response Performance Based Reliability Analysis of Aircraft Fault-tolerant Control system. , 2018, , .		0
85	The Research of Robust Fault Tolerant Control Method for Non-Minimum-Phase and Non-Self-Balancing System. , 2019, , .		0
86	Stereo-based Terrain Parameters Estimation for Lower Limb Exoskeleton. , 2021, , .		0
87	Distributed formation control of autonomous underwater vehicles without velocity measurement. , 2020, , .		0
88	A Novel Low-Cost Quadruped Robot with Joint Fault-Tolerant Control. , 2021, , .		0