Javad Poshtan

List of Publications by Year
in descending order

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81	1,029	471509 17	477307 29
papers	citations	h-index	g-index

81	81	81	990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bearing fault detection using wavelet packet transform of induction motor stator current. Tribology International, 2007, 40, 763-769.	5.9	163
2	An advanced Park's vectors approach for bearing fault detection. Tribology International, 2009, 42, 213-219.	5.9	73
3	Simulative and experimental investigation on stator winding turn and unbalanced supply voltage fault diagnosis in induction motors using Artificial Neural Networks. ISA Transactions, 2015, 59, 334-342.	5.7	55
4	Detection of broken rotor bars in induction motors using nonlinear Kalman filters. ISA Transactions, 2010, 49, 189-195.	5.7	54
5	Distributed Interacting Multiple Filters for Fault Diagnosis of Navigation Sensors in a Robotic System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1383-1393.	9.3	38
6	Sensor Fault Detection and Diagnosis of a Process Using Unknown Input Observer. Mathematical and Computational Applications, 2011, 16, 31-42.	1.3	33
7	Fault Diagnosis of Brushless DC Motors Using Built-In Hall Sensors. IEEE Sensors Journal, 2019, 19, 8183-8190.	4.7	33
8	Design of Nonlinear Unknown Input Observer for Process Fault Detection. Industrial & Engineering Chemistry Research, 2010, 49, 11443-11452.	3.7	30
9	A new adaptive recursive RLS-based fast-array IIR filter for active noise and vibration control systems. Signal Processing, 2011, 91, 98-113.	3.7	30
10	Quantitative and Qualitative Analysis of Time-Series Classification Using Deep Learning. IEEE Access, 2020, 8, 90202-90215.	4.2	26
11	Cascaded Kalman and particle filters for photogrammetry based gyroscope drift and robot attitude estimation. ISA Transactions, 2014, 53, 524-532.	5.7	25
12	Design and comparison of LQG/LTR and Hâˆž controllers for a VSTOL flight control system. Journal of the Franklin Institute, 2007, 344, 577-594.	3.4	24
13	An Advanced Park's Vectors Approach for Bearing Fault Detection. , 2006, , .		23
14	Optimal controller design using discrete linear model for a four tank benchmark process. ISA Transactions, 2013, 52, 644-651.	5.7	21
15	Design and Analysis of Robust Minimax LQG Controller for an Experimental Beam Considering Spill-Over Effect. IEEE Transactions on Control Systems Technology, 2011, 19, 1251-1259.	5.2	19
16	Nonlinear Model Predictive Control of Chemical Processes with a Wiener Identification Approach. , 2006, , .		18
17	GA-based optimization of a MIMO ANC system considering coupling of secondary sources in a telephone kiosk. Applied Acoustics, 2009, 70, 945-953.	3.3	17
18	Performance and robust stability trade-off in minimax LQG control of vibrations in flexible structures. Engineering Structures, 2009, 31, 2407-2413.	5.3	17

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19	A Computationally Efficient Adaptive IIR Solution to Active Noise and Vibration Control Systems. IEEE Transactions on Automatic Control, 2010, 55, 2671-2676.	5.7	17
20	Fault detection and isolation based on fuzzyâ€integral fusion approach. IET Science, Measurement and Technology, 2019, 13, 296-302.	1.6	17
21	Analysis of the global reduction of broadband noise in a telephone kiosk using a MIMO modal ANC system. International Journal of Engineering Science, 2007, 45, 679-697.	5.0	15
22	IIR model identification via evolutionary algorithms. Artificial Intelligence Review, 2015, 44, 87-101.	15.7	15
23	Experimental validation on stator fault detection via fuzzy logic. , 2013, , .		13
24	Actuator fault tolerance evaluation approach of nonlinear model predictive control systems using viability theory. Journal of Process Control, 2018, 71, 35-45.	3.3	13
25	Novel system identification method and multi-objective-optimal multivariable disturbance observer for electric wheelchair. ISA Transactions, 2013, 52, 129-139.	5.7	12
26	Fault diagnosis of an induction motor using data fusion based on neural networks. IET Science, Measurement and Technology, 2021, 15, 681-689.	1.6	12
27	Optimizing a Multi-Channel ANC System for Broadband Noise Cancellation in a Telephone Kiosk Using Genetic Algorithms. Shock and Vibration, 2009, 16, 241-260.	0.6	12
28	Designing a robust minimum variance controller using discrete slide mode controller approach. ISA Transactions, 2013, 52, 291-299.	5.7	11
29	Distributed observers for pose estimation in the presence of inertial sensory soft faults. ISA Transactions, 2014, 53, 1307-1319.	5.7	11
30	Modal Analysis for Global Control of Broadband Noise in a Rectangular Enclosure. Journal of Low Frequency Noise Vibration and Active Control, 2007, 26, 91-104.	2.9	10
31	Momentum coefficient for promoting accuracy and convergence speed of evolutionary programming. Applied Soft Computing Journal, 2012, 12, 1765-1786.	7.2	10
32	Event-Triggered Robust Fault Diagnosis Kalman Filter for Stochastic Systems. IEEE Sensors Journal, 2021, 21, 11031-11039.	4.7	10
33	A modification to classical evolutionary programming by shifting strategy parameters. Applied Intelligence, 2013, 38, 175-192.	5.3	9
34	A linear approach to generalized minimum variance controller design for MIMO nonlinear systems. Nonlinear Dynamics, 2014, 77, 935-949.	5.2	9
35	Fault detection and isolation using viability theory and interval observers. International Journal of Systems Science, 2018, 49, 1445-1462.	5.5	9
36	An unknown input observer-based decentralized fault detection and isolation for a class of large-scale interconnected nonlinear systems. Transactions of the Institute of Measurement and Control, 2018, 40, 2599-2606.	1.7	9

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37	A new approach for robust fault estimation in nonlinear systems with state-coupled disturbances using dissipativity theory. ISA Transactions, 2021, 114, 31-43.	5.7	8
38	Robust state estimation for a class of uncertain nonlinear systems: Comparison of two approaches. ISA Transactions, 2017, 68, 48-53.	5.7	7
39	A Novel Technique for Design and Stability Analysis of Adaptive IIR Filters in ANVC Aplications. , 2007, , .		6
40	Minimum variance lower bound estimation and realization for desired structures. ISA Transactions, 2014, 53, 787-792.	5.7	6
41	Detection and discrimination of stator interturn fault and unbalanced supply voltage fault in induction motor using neural network. , 2015, , .		6
42	Fault isolation and diagnosis of induction motor based on multi-sensor data fusion. , 2015, , .		6
43	Robust Minimum Variance Lower Bound Estimation by Uncertainty Modeling Using Interval Typeâ€2 Fuzzy set. Asian Journal of Control, 2017, 19, 47-56.	3.0	6
44	Practical control performance assessment method using Hurst exponents and crossover phenomena. Computers and Chemical Engineering, 2022, 161, 107774.	3.8	6
45	Non-affine minimum variance controller design by inverse modeling procedure. Nonlinear Dynamics, 2014, 78, 2675-2684.	5.2	5
46	Design of minimax-linear quadratic Gaussian controller using the frequency domain subspace identified model of flexible plate. JVC/Journal of Vibration and Control, 2015, 21, 1115-1143.	2.6	5
47	Design of robust minimum variance controller using type-2 fuzzy set. Transactions of the Institute of Measurement and Control, 2016, 38, 315-326.	1.7	4
48	Fault Diagnosis and Isolation of an Electro-Pump using Neural Data Fusion. , 2019, , .		4
49	LMIâ€based robust fault detection and isolation in linear stochastic systems. IET Science, Measurement and Technology, 2020, 14, 593-599.	1.6	4
50	APPLICATION OF GENETIC ALGORITHMS FOR OVERALL OPTIMIZATION OF AN ACTIVE NOISE CONTROL SYSTEM IN AN ENCLOSURE. Fluctuation and Noise Letters, 2008, 08, L51-L64.	1.5	3
51	Non-Statistical Based Robust Identification of a Lightly Damped Flexible Beam Using Kautz Orthonormal Basis Functions. Journal of Low Frequency Noise Vibration and Active Control, 2008, 27, 203-217.	2.9	3
52	Global minimum routing in evolutionary programming using fuzzy logic. Information Sciences, 2015, 292, 162-174.	6.9	3
53	Fault Detection Based On Online Probability Density Function Estimation. Asian Journal of Control, 2016, 18, 2193-2202.	3.0	3
54	Broken-bar rotor fault detection in squirrel-cage induction motors at presence of sensor faults using adaptive Unscented Kalman filter. , 2017, , .		3

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55	Stochastic Event-Triggered Fault Detection and Isolation Based on Kalman Filter. IEEE Transactions on Cybernetics, 2022, 52, 12329-12339.	9.5	3
56	Evaluating the Performance of a Nonlinear Active Noise Control System in Enclosure. , 2007, , .		2
57	Optimized multiobjective H_∞ control applied to inverted pendulum. , 2007, , .		2
58	Particle filtering based gyroscope fault and attitude estimation with uncertain dynamics fusing camera information. , 2014, , .		2
59	Generalized sliding mode with integrator controller design using a discrete linear model. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 677-689.	1.0	2
60	Interconnected maximum likelihood estimator and extended Kalman filter for inertial measurement unit calibration fusing three-dimensional camera information. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 106-117.	1.0	2
61	Kalman filter based sensor fault detection and identification in an electro-pump system. , 2017, , .		2
62	Robust Observer-Based Fault Estimation for Lipschitz Nonlinear Systems with State-Coupled Disturbance: A Dissipativity Approach. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2020, 44, 617-627.	2.3	2
63	Data-driven performance assessment of multivariable control loops using a modified Hurst exponentâ€“based index. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 769-780.	1.0	2
64	Improving Stator Winding Fault Diagnosis in Induction Motor using Dempster-Shafer Theory. Electrical and Electronics Engineering an International Journal, 2014, 3, 161-173.	0.2	2
65	A modified proportional guidance law for homming missiles by using of nonlinear filters. , 2008, , .		1
66	Robust fault detection of non-linear systems with unknown disturbances. , 2010, , .		1
67	IIR filter design using time and frequency responses by genetic algorithm for system identification. , 2011, , .		1
68	Electro pump modeling using laboratory system data. , 2016, , .		1
69	Fault tolerance evaluation of nonlinear systems using viability theory. , 2016, , .		1
70	Loosely coupled fusion of camera and inertial sensors for distributed error compensation in strapdown inertial navigation system. Transactions of the Institute of Measurement and Control, 2016, 38, 1283-1297.	1.7	1
71	Verification of the control system performance using viability theory. , 2017, , .		1
72	Application of Evolutionary Learning in Wiener Neural Identification and Predictive Control of a Plug-Flow Tubular Reactor. , 2007, , .		0

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73	Analysis of the behavior of coupled loudspeakers in a MIMO ANC system in an enclosure. , 2010, , .		0
74	Crossover operator of continuous GA with cost information. , 2011, , .		0
75	Decentralized particle filtering based fault diagnosis for nonlinear distributed and interconnected systems. , 2013, , .		0
76	Assessing accuracy of k â€stepâ€ahead prediction of nonâ€linear dynamics with uncertainties. IET Signal Processing, 2015, 9, 655-662.	1.5	0
77	Online kernel density estimation using fuzzy logic. IET Signal Processing, 2015, 9, 579-586.	1.5	0
78	Application of improved Hilbert-Huang and wavelet packet transforms in broken rotor bar fault detection. , 2017, , .		0
79	Online performance monitoring and diagnosis of multivariate systems. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 461-473.	1.0	0
80	Process Performance Verification Using Viability Theory. Processes, 2021, 9, 482.	2.8	0
81	Application of MIMO Disturbance Observer to Control of an Electric Wheelchair Using NSGA-II. Journal of Medical Signals and Sensors, 2011, 1, 122-9.	1.0	0