Bin Zhang

List of Publications by Year
in descending order

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88 papers	3,580 citations	147801 31 h-index	138484 58 g-index
88 all docs	88 docs citations	88 times ranked	2790 citing authors

#	Article	IF	Citations
1	A Nonlinear Observer-Based Approach to Robust Cooperative Tracking for Heterogeneous Spacecraft Attitude Control and Formation Applications. IEEE Transactions on Automatic Control, 2023, 68, 400-407.	5.7	15
2	Cost-Effective Lebesgue Sampling Long Short-Term Memory Networks for Lithium-Ion Batteries Diagnosis and Prognosis. IEEE Transactions on Industrial Electronics, 2022, 69, 1958-1967.	7.9	23
3	Lebesgue Sampling Based Deep Belief Network for Lithium-Ion Battery Diagnosis and Prognosis. IEEE Transactions on Industrial Electronics, 2022, 69, 8481-8490.	7.9	20
4	Uncertainty Management and Differential Model Decomposition for Fault Diagnosis and Prognosis. IEEE Transactions on Industrial Electronics, 2022, 69, 5235-5246.	7.9	8
5	Reflectometry-Based Cable Insulation Aging Diagnosis and Prognosis. IEEE Transactions on Industrial Electronics, 2022, 69, 4148-4157.	7.9	17
6	Lebesgue Sampling-Based Li-Ion Battery Simplified First Principle Model for SOC Estimation and RDT Prediction. IEEE Transactions on Industrial Electronics, 2022, 69, 9524-9534.	7.9	8
7	Prognosis of Electric Scooter With Intermittent Faults: Dual Degradation Processes Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 1411-1425.	6.3	14
8	Spatio-Temporal Fusion Attention: A Novel Approach for Remaining Useful Life Prediction Based on Graph Neural Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	21
9	Time space modelling for fault diagnosis and prognosis with uncertainty management: A general theoretical formulation. Reliability Engineering and System Safety, 2022, 226, 108686.	8.9	6
10	Discrete Component Prognosis for Hybrid Systems Under Intermittent Faults. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1766-1777.	5.2	23
11	Lebesgue-Timeâ€“Space-Model-Based Diagnosis and Prognosis for Multiple Mode Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 1591-1603.	7.9	12
12	Multi-Layer Extreme Learning Machine-Based Keystroke Dynamics Identification for Intelligent Keyboard. IEEE Sensors Journal, 2021, 21, 2324-2333.	4.7	10
13	Event-Triggered Discrete Component Prognosis of Hybrid Systems Using Degradation Model Selection. IEEE Transactions on Industrial Electronics, 2021, 68, 11470-11481.	7.9	11
14	RUL Prediction and Uncertainty Management for Multisensor System Using an Integrated Data-Level Fusion and UPF Approach. IEEE Transactions on Industrial Informatics, 2021, 17, 4692-4701.	11.3	33
15	Optimal Tracking Cooperative Control for Cyber-Physical Systems: Dynamic Fault-Tolerant Control and Resilient Management. IEEE Transactions on Industrial Informatics, 2021, 17, 158-167.	11.3	36
16	Semiglobal Tracking Cooperative Control for Multiagent Systems With Input Saturation: A Multiple Saturation Levels Framework. IEEE Transactions on Automatic Control, 2021, 66, 1215-1222.	5.7	44
17	Uncertainty Analysis in the Application of Fault Diagnosis and Prognosis. , 2021, , .		0
18	A Deep Residual Convolutional Neural Network based Bearing Fault Diagnosis with Multi-Sensor Data. , 2021, , .		3

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19	Swarm cooperative control of heterogeneous industrial cyber-physical systems: A distributed observer approach. , 2021, , .		1
20	Cooperative Control-Based Task Assignments for Multiagent Systems With Intermittent Communication. IEEE Transactions on Industrial Informatics, 2021, 17, 6697-6708.	11.3	14
21	Lithium-ion battery diagnostics and prognostics enhanced with Dempster-Shafer decision fusion. Neurocomputing, 2021, 458, 440-453.	5.9	20
22	Frequency-Adaptive Virtual Variable Sampling-Based Selective Harmonic Repetitive Control of Power Inverters. IEEE Transactions on Industrial Electronics, 2021, 68, 11339-11347.	7.9	15
23	An Integrated DC Series Arc Fault Detection Method for Different Operating Conditions. IEEE Transactions on Industrial Electronics, 2021, 68, 12720-12729.	7.9	27
24	Recent Development of Unpowered Exoskeletons for Lower Extremity: A Survey. IEEE Access, 2021, 9, 138042-138056.	4.2	8
25	SOH Diagnostic and Prognostic Based on External Health Indicator of Lithium-ion Batteries. , 2021, , .		3
26	Cable Insulation Aging Simulation. , 2021, , .		3
27	Multitask Convolutional Neural Network With Information Fusion for Bearing Fault Diagnosis and Localization. IEEE Transactions on Industrial Electronics, 2020, 67, 8005-8015.	7.9	132
28	Cyber-Physical Microgrids: Toward Future Resilient Communities. IEEE Industrial Electronics Magazine, 2020, 14, 4-17.	2.6	29
29	Guest Editorial: Special Section on Resilience, Reliability, and Security in Cyberâ€“Physical Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 4865-4867.	11.3	1
30	Model predictive control for nonlinear systems in Takagi-Sugenoâ€™s form under round-robin protocol. Journal of the Franklin Institute, 2020, 357, 7597-7616.	3.4	3
31	SNPL: One Scheme of Securing Nodes in IoT Perception Layer. Sensors, 2020, 20, 1090.	3.8	9
32	A Battery Management System With a Lebesgue-Sampling-Based Extended Kalman Filter. IEEE Transactions on Industrial Electronics, 2019, 66, 3227-3236.	7.9	136
33	Virtual Variable Sampling Repetitive Control of Single-Phase DC/AC PWM Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1837-1845.	5.4	22
34	Cooperative Tracking Control of Multiagent Systems: A Heterogeneous Coupling Network and Intermittent Communication Framework. IEEE Transactions on Cybernetics, 2019, 49, 4308-4320.	9.5	44
35	Keystroke Dynamics Identification Based on Triboelectric Nanogenerator for Intelligent Keyboard Using Deep Learning Method. Advanced Materials Technologies, 2019, 4, 1800167.	5.8	57
36	Non-intrusive Cable Fault Diagnosis Based on Inductive Directional Coupling. IEEE Transactions on Power Delivery, 2019, , 1-1.	4.3	21

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37	Regulation cooperative control for heterogeneous uncertain chaotic systems with time delay: A synchronization errors estimation framework. Automatica, 2019, 108, 108486.	5.0	60
38	A new method for lithium-ion battery uniformity sorting based on internal criteria. Journal of Energy Storage, 2019, 25, 100885.	8.1	26
39	A comprehensive investigation of lithium-ion battery degradation performance at different discharge rates. Journal of Power Sources, 2019, 443, 227108.	7.8	30
40	Stable Consensus for Heterogeneous Nonlinear Multi-agent Systems with Non-zero Inputs. , 2019, , .		1
41	Semi-global robust tracking consensus for multi-agent uncertain systems with input saturation via metamorphic low-gain feedback. Automatica, 2019, 103, 363-373.	5.0	101
42	A Lebesgue-Time-Space-Model and Particle Filter based Diagnosis and Prognosis Method. , 2019, , .		0
43	Virtual Variable Sampling Discrete Fourier Transform Based Selective Odd-Order Harmonic Repetitive Control of DC/AC Converters. IEEE Transactions on Power Electronics, 2018, 33, 6444-6452.	7.9	32
44	A novel approach for analog circuit fault diagnosis based on Deep Belief Network. Measurement: Journal of the International Measurement Confederation, 2018, 121, 170-178.	5.0	95
45	Accurate Cooperative Control for Multiple Leaders Multiagent Uncertain Systems: A Two-Layer Node-to-Node Communication Framework. IEEE Transactions on Industrial Informatics, 2018, 14, 2395-2405.	11.3	45
46	Leaderâ€“Follower Consensus of Multivehicle Wirelessly Networked Uncertain Systems Subject to Nonlinear Dynamics and Actuator Fault. IEEE Transactions on Automation Science and Engineering, 2018, 15, 492-505.	5.2	71
47	Probabilistic Planning and Risk Evaluation Based on Ensemble Weather Forecasting. IEEE Transactions on Automation Science and Engineering, 2018, 15, 556-566.	5.2	13
48	Cooperative Control for Industrial Multi-agent Systems: Framework and Problems. , 2018, , .		0
49	Non-Intrusive Cable Fault Diagnosis Based on Inductive Directional Coupling. Sensors, 2018, 18, 3724.	3.8	3
50	Synchronous Online Diagnosis of Multiple Cable Intermittent Faults Based on Chaotic Spread Spectrum Sequence. IEEE Transactions on Industrial Electronics, 2018, , 1-1.	7.9	33
51	Fault Diagnosis and Prognosis Based on Deep Belief Network and Particle Filtering. Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference, 2018, 10, .	0.3	4
52	Cooperative Control of Heterogeneous Uncertain Dynamical Networks: An Adaptive Explicit Synchronization Framework. IEEE Transactions on Cybernetics, 2017, 47, 1484-1495.	9.5	31
53	Global Cooperative Control Framework for Multiagent Systems Subject to Actuator Saturation With Industrial Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1270-1283.	9.3	116
54	Uncertainty Management in Lebesgue-Sampling-Based Diagnosis and Prognosis for Lithium-Ion Battery. IEEE Transactions on Industrial Electronics, 2017, 64, 8158-8166.	7.9	36

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55	Cyclic Repetitive Control of CVCF PWM DCâ€“AC Converters. IEEE Transactions on Industrial Electronics, 2017, 64, 9399-9409.	7.9	19
56	Low-Cost Adaptive Lebesgue Sampling Particle Filtering Approach for Real-Time Li-Ion Battery Diagnosis and Prognosis. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1601-1611.	5.2	29
57	Universal Fractional-Order Design of Linear Phase Lead Compensation Multirate Repetitive Control for PWM Inverters. IEEE Transactions on Industrial Electronics, 2017, 64, 7132-7140.	7.9	50
58	A Run-Time Dynamic Reconfigurable Computing System for Lithium-Ion Battery Prognosis. Energies, 2016, 9, 572.	3.1	13
59	Robust adaptive consensus tracking for higherâ€order multiâ€agent uncertain systems with nonlinear dynamics via distributed intermittent communication protocol. International Journal of Adaptive Control and Signal Processing, 2016, 30, 511-533.	4.1	40
60	Lebesgue approximation model of continuous-time nonlinear dynamic systems. Automatica, 2016, 64, 234-239.	5.0	13
61	Fractional-order phase lead compensation for multi-rate repetitive control on three-phase PWM DC/AC inverter. , 2016, , .		8
62	Leaderâ€“follower consensus for multi-agent systems with three-layer network framework and dynamic interaction jointly connected topology. Neurocomputing, 2016, 207, 231-239.	5.9	15
63	Explicit synchronisation of heterogeneous dynamics networks via three-layer communication framework. International Journal of Control, 2016, 89, 1269-1284.	1.9	10
64	Lebesgue-Sampling-Based Diagnosis and Prognosis for Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2016, 63, 1804-1812.	7.9	56
65	Stability analysis of periodic triggering reset control systems. International Journal of Control, Automation and Systems, 2015, 13, 788-797.	2.7	4
66	A Recursive Receding Horizon Planning for Unmanned Vehicles. IEEE Transactions on Industrial Electronics, 2015, 62, 2912-2920.	7.9	39
67	Frequency Adaptive Selective Harmonic Control for Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2015, 30, 3912-3924.	7.9	142
68	Multirate Repetitive Control for PWM DC/AC Converters. IEEE Transactions on Industrial Electronics, 2014, 61, 2883-2890.	7.9	98
69	Case studies of filtering techniques in multirate iterative learning control. Control Engineering Practice, 2014, 26, 116-124.	5.5	11
70	Risk Measures for Particle-Filtering-Based State-of-Charge Prognosis in Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2013, 60, 5260-5269.	7.9	114
71	Phase Compensation Multiresonant Control of CVCF PWM Converters. IEEE Transactions on Power Electronics, 2013, 28, 3923-3930.	7.9	69
72	An integrated architecture for fault diagnosis and failure prognosis of complex engineering systems. Expert Systems With Applications, 2012, 39, 9031-9040.	7.6	41

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73	Prediction of Machine Health Condition Using Neuro-Fuzzy and Bayesian Algorithms. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 297-306.	4.7	116
74	A Probabilistic Fault Detection Approach: Application to Bearing Fault Detection. IEEE Transactions on Industrial Electronics, 2011, 58, 2011-2018.	7.9	214
75	Machine Condition Prediction Based on Adaptive Neuroâ€“Fuzzy and High-Order Particle Filtering. IEEE Transactions on Industrial Electronics, 2011, 58, 4353-4364.	7.9	211
76	A novel blind deconvolution de-noising scheme in failure prognosis. Transactions of the Institute of Measurement and Control, 2010, 32, 3-30.	1.7	29
77	Stability and robustness analysis of cyclic pseudo-downsampled iterative learning control. International Journal of Control, 2010, 83, 651-659.	1.9	6
78	On learning transient, auto-tunings of learnable bandwidth and lead step in iterative learning control. International Journal of Systems Science, 2010, 41, 353-363.	5.5	6
79	Cutoff-Frequency Phase-In Iterative Learning Control. IEEE Transactions on Control Systems Technology, 2009, 17, 681-687.	5.2	23
80	Cyclic pseudo-downsampled iterative learning control for high performance tracking. Control Engineering Practice, 2009, 17, 957-965.	5.5	13
81	Simple LMI based learning control design. Asian Journal of Control, 2009, 11, 74-77.	3.0	18
82	Plug-In Dual-Mode-Structure Repetitive Controller for CVCF PWM Inverters. IEEE Transactions on Industrial Electronics, 2009, 56, 784-791.	7.9	129
83	Pseudo-downsampled iterative learning control. International Journal of Robust and Nonlinear Control, 2008, 18, 1072-1088.	3.7	14
84	Linear Phase Lead Compensation Repetitive Control of a CVCF PWM Inverter. IEEE Transactions on Industrial Electronics, 2008, 55, 1595-1602.	7.9	229
85	Rolling element bearing feature extraction and anomaly detection based on vibration monitoring. , 2008, , .		37
86	Comparison Studies on Anti-Aliasing/Anti-Imaging Filtering and Signal Extension in Multi-rate ILC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12468-12473.	0.4	5
87	Zero-phase odd-harmonic repetitive controller for a single-phase PWM inverter. IEEE Transactions on Power Electronics, 2006, 21, 193-201.	7.9	176
88	Wavelet Transform-Based Frequency Tuning ILC. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 107-114.	5.0	37