

Xiao Liang

List of Publications by Year in descending order

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39
papers

900
citations

623699

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times ranked

620
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale structural health monitoring using composite recurrent neural networks and grid environments. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2023, 38, 271-287.	9.8	26
2	Robot-Assisted Disassembly Sequence Planning With Real-Time Human Motion Prediction. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2023, 53, 438-450.	9.3	9
3	Iterative Learning for Heterogeneous Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 1510-1521.	5.8	5
4	Decoupled EPS Control Utilizing Magnetizing Current to Achieve Full Load Range ZVS for Dual Active Bridge Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 4801-4813.	7.9	20
5	Bimodal Transformerless Inverter With Three Switches. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 8972-8983.	7.9	6
6	Three-Level Indirect Matrix Converter With Neutral-Point Potential Balance Scheme for Adjustable Speed Drives. <i>IEEE Transactions on Transportation Electrification</i> , 2022, 8, 845-855.	7.8	2
7	A Comprehensive Study on the Existence and Stability of Equilibria of DC-Distribution Networks With Constant Power Loads. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 1988-1995.	5.7	16
8	Task allocation and planning for product disassembly with human-robot collaboration. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022, 76, 102306.	9.9	53
9	Uncertainty-Assisted Image-Processing for Human-Robot Close Collaboration. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 4236-4243.	5.1	15
10	Deep generative Bayesian optimization for sensor placement in structural health monitoring. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 1109-1127.	9.8	30
11	Dynamic Model Informed Human Motion Prediction Based on Unscented Kalman Filter. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 5287-5295.	5.8	7
12	Active Power Decoupling Control for Single-Phase Current Source Rectifier Based on Emulating LC Resonator. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 5460-5465.	7.9	17
13	Uncertainty-assisted deep vision structural health monitoring. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 126-142.	9.8	84
14	Deep Iterative Learning Control for Quadrotor's Trajectory Tracking. , 2021, , .		2
15	Bayesian-optimized unsupervised learning approach for structural damage detection. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1249-1269.	9.8	37
16	Current-Fed LC Series Resonant Converter With Load-Independent Voltage-Gain Characteristics for Wide Voltage Range Applications. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 11509-11522.	7.9	9
17	Dual Bayesian inference for risk-informed vibration-based damage diagnosis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1168-1184.	9.8	25
18	A single-stage AC solid-state transformer with ZVS operation. <i>IET Power Electronics</i> , 2021, 14, 290-301.	2.1	5

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19	Topology and Control Method of a Single-Cell Matrix-Type Solid-State Transformer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2302-2312.	5.4	13
20	Modulation for the AVC-HERIC Inverter to Compensate for Deadtime and Minimum Pulsewidth Limitation Distortions. IEEE Transactions on Power Electronics, 2020, 35, 2571-2584.	7.9	16
21	A data-driven framework for near real-time and robust damage diagnosis of building structures. Structural Control and Health Monitoring, 2020, 27, e2488.	4.0	44
22	Ground motion selection and modification evaluation for highway bridges subjected to Bi-directional horizontal excitation. Soil Dynamics and Earthquake Engineering, 2020, 130, 105994.	3.8	10
23	Vibration-based semantic damage segmentation for large-scale structural health monitoring. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 579-596.	9.8	59
24	Disassembly Sequence Planning Considering Human-Robot Collaboration. , 2020, , .		9
25	A Generalized Design Method for Learning-Based Disturbance Observer. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1.	5.8	12
26	Knowledge Transfer Between Different UAVs for Trajectory Tracking. IEEE Robotics and Automation Letters, 2020, 5, 4939-4946.	5.1	11
27	Single-Phase Inverter With Wide Input Voltage and Power Decoupling Capability. IEEE Access, 2019, 7, 16870-16879.	4.2	14
28	Image-based post-disaster inspection of reinforced concrete bridge systems using deep learning with Bayesian optimization. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 415-430.	9.8	262
29	Robust three-dimensional path-following control for an under-actuated stratospheric airship. Advances in Space Research, 2019, 63, 526-538.	2.6	13
30	A Preliminary Study on a Physical Model Oriented Learning Algorithm With Application to UAVs. , 2019, , .		6
31	Intensity-Based Feature Selection for Near Real-Time Damage Diagnosis of Building Structures. IABSE Symposium Report, 2019, , .	0.0	4
32	Estimation of Rail Vertical Profile Using an H-Infinity Based Optimization With Learning. , 2019, , .		2
33	A systematic design framework for iterative learning control with current feedback. IFAC Journal of Systems and Control, 2018, 5, 1-10.	1.7	7
34	Lyapunov-Based Nonlinear Solution Algorithm for Structural Analysis. Journal of Engineering Mechanics - ASCE, 2018, 144, 04018082.	2.9	2
35	A Scalable Model-Based Learning Algorithm With Application to UAVs. , 2018, 2, 839-844.		18
36	Lyapunov Stability Analysis of Explicit Direct Integration Algorithms Applied to Multi-Degree-of-Freedom Nonlinear Dynamic Problems. Journal of Engineering Mechanics - ASCE, 2016, 142, 04016098.	2.9	4

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37	Lyapunov Stability Analysis of Explicit Direct Integration Algorithms Considering Strictly Positive Real Lemma. Journal of Engineering Mechanics - ASCE, 2016, 142, 04016079.	2.9	6
38	Lyapunov Stability and Accuracy of Direct Integration Algorithms Applied to Nonlinear Dynamic Problems. Journal of Engineering Mechanics - ASCE, 2016, 142, .	2.9	9
39	Direct Integration Algorithms for Efficient Nonlinear Seismic Response of Reinforced Concrete Highway Bridges. Journal of Bridge Engineering, 2016, 21, .	2.9	11