

Zhimin Du

List of Publications by Year in descending order

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47
papers

1,832
citations

270111

25
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286692

43
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docs citations

47
times ranked

1068
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnosis for multiple faults of chiller using ELM-KNN model enhanced by multi-label learning and specific feature combinations. <i>Building and Environment</i> , 2022, 214, 108904.	3.0	20
2	Digital twins model and its updating method for heating, ventilation and air conditioning system using broad learning system algorithm. <i>Energy</i> , 2022, 251, 124040.	4.5	27
3	Partial domain adaption based prediction calibration methodology for fault detection and diagnosis of chillers under variable operational condition scenarios. <i>Building and Environment</i> , 2022, 217, 109099.	3.0	8
4	Across working conditions fault diagnosis for chillers based on IoT intelligent agent with deep learning model. <i>Energy and Buildings</i> , 2022, 268, 112188.	3.1	10
5	Multi-sensor information fusion based control for VAV systems using thermal comfort constraints. <i>Building Simulation</i> , 2021, 14, 1047-1062.	3.0	17
6	Fault detection and diagnosis for the screw chillers using multi-region XGBoost model. <i>Science and Technology for the Built Environment</i> , 2021, 27, 608-623.	0.8	20
7	Adaptive data-driven optimization of chiller loading with domain knowledge. <i>Science and Technology for the Built Environment</i> , 2021, 27, 1269-1281.	0.8	1
8	Optimal control of chilled water systems based on collaboration of the equipment's near-optimal performance maps. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101236.	1.7	3
9	Transfer learning based methodology for migration and application of fault detection and diagnosis between building chillers for improving energy efficiency. <i>Building and Environment</i> , 2021, 200, 107957.	3.0	51
10	Deep learning based reference model for operational risk evaluation of screw chillers for energy efficiency. <i>Energy</i> , 2020, 213, 118833.	4.5	26
11	Machine learning enhanced inverse modeling method for variable speed air conditioning systems. <i>International Journal of Refrigeration</i> , 2020, 118, 311-324.	1.8	4
12	Hybrid model based refrigerant charge fault estimation for the data centre air conditioning system. <i>International Journal of Refrigeration</i> , 2019, 106, 392-406.	1.8	23
13	Fault diagnosis based operation risk evaluation for air conditioning systems in data centers. <i>Building and Environment</i> , 2019, 163, 106319.	3.0	29
14	Development and application of hardware-in-the-loop simulation for the HVAC systems. <i>Science and Technology for the Built Environment</i> , 2019, 25, 1482-1493.	0.8	4
15	Evaluation of operation performance of a multi-chiller system using a data-based chiller model. <i>Energy and Buildings</i> , 2018, 172, 1-9.	3.1	26
16	Data-driven based reliability evaluation for measurements of sensors in a vapor compression system. <i>Energy</i> , 2017, 122, 237-248.	4.5	40
17	Evaluation of the design of chilled water system based on the optimal operation performance of equipments. <i>Applied Thermal Engineering</i> , 2017, 113, 435-448.	3.0	15
18	A dual-benchmark based energy analysis method to evaluate control strategies for building HVAC systems. <i>Applied Energy</i> , 2016, 183, 700-714.	5.1	25

#	ARTICLE	IF	CITATIONS
19	The evaluation of operation performance of HVAC system based on the ideal operation level of system. <i>Energy and Buildings</i> , 2016, 110, 330-344.	3.1	20
20	Effect of common faults on the performance of different types of vapor compression systems. <i>Applied Thermal Engineering</i> , 2016, 98, 61-72.	3.0	25
21	Coordinated optimization of the variable refrigerant flow and variable air volume combined air-conditioning system in heating conditions. <i>Science and Technology for the Built Environment</i> , 2015, 21, 904-916.	0.8	4
22	Online optimal control of variable refrigerant flow and variable air volume combined air conditioning system for energy saving. <i>Applied Thermal Engineering</i> , 2015, 80, 87-96.	3.0	26
23	Evaluation of operation and control in HVAC (heating, ventilation and air conditioning) system using exergy analysis method. <i>Energy</i> , 2015, 89, 372-381.	4.5	29
24	Temperature sensor placement optimization for VAV control using CFD-BES co-simulation strategy. <i>Building and Environment</i> , 2015, 85, 104-113.	3.0	46
25	The method of evaluating operation performance of HVAC system based on exergy analysis. <i>Energy and Buildings</i> , 2014, 77, 332-342.	3.1	25
26	Optimal control of combined air conditioning system with variable refrigerant flow and variable air volume for energy saving. <i>International Journal of Refrigeration</i> , 2014, 42, 14-25.	1.8	29
27	Sensor fault detection and its efficiency analysis in air handling unit using the combined neural networks. <i>Energy and Buildings</i> , 2014, 72, 157-166.	3.1	69
28	Fault detection and diagnosis for buildings and HVAC systems using combined neural networks and subtractive clustering analysis. <i>Building and Environment</i> , 2014, 73, 1-11.	3.0	229
29	Simulation of variable refrigerant flow air conditioning system in heating mode combined with outdoor air processing unit. <i>Energy and Buildings</i> , 2014, 68, 571-579.	3.1	32
30	Control and energy simulation of variable refrigerant flow air conditioning system combined with outdoor air processing unit. <i>Applied Thermal Engineering</i> , 2014, 64, 385-395.	3.0	44
31	Optimum operating performance based online fault-tolerant control strategy for sensor faults in air conditioning systems. <i>Automation in Construction</i> , 2014, 37, 145-154.	4.8	22
32	Generic simulation model of multi-evaporator variable refrigerant flow air conditioning system for control analysis. <i>International Journal of Refrigeration</i> , 2013, 36, 1602-1615.	1.8	54
33	A hybrid model-based fault detection strategy for air handling unit sensors. <i>Energy and Buildings</i> , 2013, 57, 132-143.	3.1	23
34	Fault diagnosis for sensors in air handling unit based on neural network pre-processed by wavelet and fractal. <i>Energy and Buildings</i> , 2012, 44, 7-16.	3.1	65
35	Optimal control strategies for multi-chiller system based on probability density distribution of cooling load ratio. <i>Energy and Buildings</i> , 2011, 43, 2813-2821.	3.1	48
36	A hybrid FDD strategy for local system of AHU based on artificial neural network and wavelet analysis. <i>Building and Environment</i> , 2010, 45, 2698-2708.	3.0	103

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37	Fault diagnosis for temperature, flow rate and pressure sensors in VAV systems using wavelet neural network. <i>Applied Energy</i> , 2009, 86, 1624-1631.	5.1	123
38	A robot fault diagnostic tool for flow rate sensors in air dampers and VAV terminals. <i>Energy and Buildings</i> , 2009, 41, 279-286.	3.1	50
39	Multiple faults diagnosis for sensors in air handling unit using Fisher discriminant analysis. <i>Energy Conversion and Management</i> , 2008, 49, 3654-3665.	4.4	69
40	Wavelet Neural Network-Based Fault Diagnosis in Air-Handling Units. <i>HVAC and R Research</i> , 2008, 14, 959-973.	0.9	29
41	PCA-FDA-Based Fault Diagnosis for Sensors in VAV Systems. <i>HVAC and R Research</i> , 2007, 13, 349-367.	0.9	30
42	Fault detection and diagnosis based on improved PCA with JAA method in VAV systems. <i>Building and Environment</i> , 2007, 42, 3221-3232.	3.0	94
43	Detection and diagnosis for multiple faults in VAV systems. <i>Energy and Buildings</i> , 2007, 39, 923-934.	3.1	29
44	Energy evaluation of optimal control strategies for central VAV chiller systems. <i>Applied Thermal Engineering</i> , 2007, 27, 934-941.	3.0	59
45	Tolerant control for multiple faults of sensors in VAV systems. <i>Energy Conversion and Management</i> , 2007, 48, 764-777.	4.4	24
46	Detection and diagnosis for sensor fault in HVAC systems. <i>Energy Conversion and Management</i> , 2007, 48, 693-702.	4.4	46
47	Fault tolerant control of outdoor air and AHU supply air temperature in VAV air conditioning systems using PCA method. <i>Applied Thermal Engineering</i> , 2006, 26, 1226-1237.	3.0	37