John M House

List of Publications by Year
in descending order

24 papers	787 citations	932766 10 h-index	752256 20 g-index
26 all docs	26 docs citations	26 times ranked	542 citing authors

#	Article	IF	Citations
1	A rule-based fault detection method for air handling units. Energy and Buildings, 2006, 38, 1485-1492.	3.1	218
2	EFFECT OF A CENTERED CONDUCTING BODY ON NATURAL CONVECTION HEAT TRANSFER IN AN ENCLOSURE. Numerical Heat Transfer; Part A: Applications, 1990, 18, 213-225.	1.2	209
3	Modeling and fault diagnosis design for HVAC systems using recurrent neural networks. Computers and Chemical Engineering, 2019, 126, 189-203.	2.0	85
4	Real-time optimization of a chilled water plant with parallel chillers based on extremum seeking control. Applied Energy, 2017, 208, 766-781.	5.1	51
5	Heating, ventilation and air conditioning systems: Fault detection and isolation and safe parking. Computers and Chemical Engineering, 2018, 108, 139-151.	2.0	46
6	A hybrid modeling approach integrating first-principles knowledge with statistical methods for fault detection in HVAC systems. Computers and Chemical Engineering, 2020, 142, 107022.	2.0	29
7	A New Sequencing Control Strategy for Air-Handling Units. HVAC and R Research, 1999, 5, 35-58.	0.9	26
8	Optimal control of HVAC systems using DDP and NLP techniques. Optimal Control Applications and Methods, 1996, 17, 71-78.	1.3	16
9	Integrated Control and Fault Detection of Air-Handling Units. HVAC and R Research, 2009, 15, 25-55.	0.9	15
10	Comparison of methods for design sensitivity analysis for optimal control of thermal systems. Optimal Control Applications and Methods, 1993, 14, 17-37.	1.3	12
11	Multi-variable extremum seeking control for a multi-functional variable refrigerant flow system. Science and Technology for the Built Environment, 2018, 24, 382-395.	0.8	11
12	Distributed fault diagnosis of heating, ventilation, and air conditioning systems. AICHE Journal, 2019, 65, 640-651.	1.8	11
13	Experimental evaluation of anti-windup extremum seeking control for airside economizers. Control Engineering Practice, 2016, 50, 37-47.	3.2	8
14	Optimization and sequencing of chilled-water plant based on extremum seeking control. , 2016, , .		7
15	An extremum-seeking control method driven by inputâ€“output correlation. Journal of Process Control, 2017, 58, 106-116.	1.7	7
16	Model-free control and staging for real-time energy efficient operation of a variable refrigerant flow system with multiple outdoor units. Applied Thermal Engineering, 2020, 180, 115787.	3.0	6
17	Mode switching control for a multi-functional variable refrigerant flow system. Science and Technology for the Built Environment, 2018, 24, 418-434.	0.8	4
18	Local self-optimizing control based on extremum seeking control. Control Engineering Practice, 2020, 99, 104394.	3.2	4

#	Article	IF	Citations
19	Input selection for multivariable extremum seeking control with application to real-time optimization of a chilled-water plant. , 2017, , .		3
20	Self-perturbing extremum-seeking controller with adaptive gain. Control Engineering Practice, 2020, 101, 104456.	3.2	3
21	Dither extremum seeking control of a variable refrigerant flow system with equality constraint handling. Science and Technology for the Built Environment, 2022, 28, 152-169.	0.8	3
22	Extremum-seeking control integrated online input selection with application to a chilled-water plant. Science and Technology for the Built Environment, 2022, 28, 170-187.	0.8	2
23	Constraint Handling in ESC Control Strategies with Application to HVAC Systems. , 2018, , .		1
24	A comparison of two extremum seeking control strategies based on simulation and laboratory tests for heat pump air conditioning. Science and Technology for the Built Environment, 2021, 27, 641-655.	0.8	0