

Timothy I Salsbury

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

373
citations

10
h-index

18
g-index

40
ext. papers

496
ext. citations

3.8
avg, IF

4.07
L-index

#	Paper	IF	Citations
34	A simple method for detecting valve stiction in oscillating control loops. <i>Journal of Process Control</i> , 2005 , 15, 371-382	3.9	85
33	Modeling and fault diagnosis design for HVAC systems using recurrent neural networks. <i>Computers and Chemical Engineering</i> , 2019 , 126, 189-203	4	40
32	Real-time optimization of a chilled water plant with parallel chillers based on extremum seeking control. <i>Applied Energy</i> , 2017 , 208, 766-781	10.7	38
31	A SURVEY OF CONTROL TECHNOLOGIES IN THE BUILDING AUTOMATION INDUSTRY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 90-100		34
30	Heating, ventilation and air conditioning systems: Fault detection and isolation and safe parking. <i>Computers and Chemical Engineering</i> , 2018 , 108, 139-151	4	28
29	Investigation of potential aerosol transmission and infectivity of SARS-CoV-2 through central ventilation systems. <i>Building and Environment</i> , 2021 , 197, 107633	6.5	23
28	A practical method for assessing the performance of control loops subject to random load changes. <i>Journal of Process Control</i> , 2005 , 15, 393-405	3.9	22
27	A new pulse modulation adaptive controller (PMAC) applied to HVAC systems. <i>Control Engineering Practice</i> , 2002 , 10, 1357-1370	3.9	16
26	Continuous-time model identification for closed loop control performance assessment. <i>Control Engineering Practice</i> , 2007 , 15, 109-121	3.9	15
25	A hybrid modeling approach integrating first-principles knowledge with statistical methods for fault detection in HVAC systems. <i>Computers and Chemical Engineering</i> , 2020 , 142, 107022	4	11
24	Multi-variable extremum seeking control for a multi-functional variable refrigerant flow system. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 382-395	1.8	7
23	Offset-Free Model Predictive Control of a Heat Pump. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 994-1005	3.9	7
22	Optimization and sequencing of chilled-water plant based on extremum seeking control 2016 ,		6
21	Experimental evaluation of anti-windup extremum seeking control for airside economizers. <i>Control Engineering Practice</i> , 2016 , 50, 37-47	3.9	5
20	CONTROL PERFORMANCE ASSESSMENT FOR BUILDING AUTOMATION SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 7-18		4
19	Shape-based Stiction Detection Using Area Calculations. <i>Advances in Industrial Control</i> , 2010 , 183-204	0.3	4
18	Two new normalized EWMA-based indices for control loop performance assessment 2015 ,		3

17	An extremum-seeking control method driven by input-output correlation. <i>Journal of Process Control</i> , 2017 , 58, 106-116	3.9	3
16	Extremum Seeking Based Control Strategy for a Chilled-Water Plant With Parallel Chillers 2015 ,		3
15	Model-free control and staging for real-time energy efficient operation of a variable refrigerant flow system with multiple outdoor units. <i>Applied Thermal Engineering</i> , 2020 , 180, 115787	5.8	3
14	Distributed fault diagnosis of heating, ventilation, and air conditioning systems. <i>AIChE Journal</i> , 2018 , 65, 640	3.6	3
13	A method for setpoint alarming using a normalized index. <i>Control Engineering Practice</i> , 2017 , 60, 1-6	3.9	2
12	Mode switching control for a multi-functional variable refrigerant flow system. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 418-434	1.8	2
11	Self-perturbing extremum-seeking controller with adaptive gain. <i>Control Engineering Practice</i> , 2020 , 101, 104456	3.9	2
10	Local self-optimizing control based on extremum seeking control. <i>Control Engineering Practice</i> , 2020 , 99, 104394	3.9	1
9	2018 ,		1
8	Input selection for multivariable extremum seeking control with application to real-time optimization of a chilled-water plant 2017 ,		1
7	A New Sequencer Controller for Multistage Systems of Known Relative Capacities. <i>HVAC and R Research</i> , 2002 , 8, 403-428		1
6	The Smart Building 2009 , 1079-1093		1
5	2018 ,		1
4	Size dependent infectivity of SARS-CoV-2 via respiratory droplets spread through central ventilation systems. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 132, 105748	5.8	0
3	Extremum-seeking control integrated online input selection with application to a chilled-water plant. <i>Science and Technology for the Built Environment</i> , 1-18	1.8	0
2	Dither extremum seeking control of a variable refrigerant flow system with equality constraint handling. <i>Science and Technology for the Built Environment</i> , 1-18	1.8	
1	A comparison of two extremum seeking control strategies based on simulation and laboratory tests for heat pump air conditioning. <i>Science and Technology for the Built Environment</i> , 2021 , 27, 641-655 ^{1.8}		