Michael E Cholette

List of Publications by Year
in descending order

59 papers	1,080 citations	361045 20 h-index	433756 31 g-index
61 all docs	61 docs citations	61 times ranked	1028 citing authors

#	Article	IF	Citations
1	STATER: Slit-Based Trajectory Reconstruction for Dense Urban Network With Overlapping Bluetooth Scanning Zones. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8316-8326.	4.7	0
2	Battery Dispatching for End Users With On-Site Renewables and Peak Demand Chargesâ€"An Approximate Dynamic Programming Approach. IEEE Transactions on Control Systems Technology, 2022, 30, 2100-2114.	3.2	3
3	Bi-objective optimization of sectorial cleaning policy for the solar fields of concentrating solar tower plants. AIP Conference Proceedings, 2022, , .	0.3	0
4	Dynamic thermal analysis of an external cylindrical receiver in an object-oriented modelling paradigm. AIP Conference Proceedings, 2022, , .	0.3	5
5	Condition-based inspection policies for boiler heat exchangers. European Journal of Operational Research, 2021, 291, 232-243.	3.5	8
6	Future energy-optimised buildings â€" Addressing the impact of climate change on buildings. Energy and Buildings, 2021, 231, 110610.	3.1	59
7	CFStrace: An evaluation method to include complex fenestration systems in the faÃ§ade design process. Solar Energy, 2021, 217, 253-262.	2.9	1
8	A daylight-oriented multi-objective optimisation of complex fenestration systems. Building and Environment, 2021, 197, 107828.	3.0	5
9	A multi-dimension clustering-based method for renewable energy investment planning. Renewable Energy, 2021, 172, 651-666.	4.3	18
10	Optimal inspections and maintenance planning for anti-corrosion coating failure on ships using non-homogeneous Poisson Processes. Ocean Engineering, 2021, 238, 109695.	1.9	10
11	Energy Efficient and Safe Control Strategy for Electric Vehicles Including Driver Preference. IEEE Access, 2021, 9, 11109-11122.	2.6	6
12	Optimization of conditionâ€based maintenance considering partial opportunities. Quality and Reliability Engineering International, 2020, 36, 529-546.	1.4	14
13	Building energy optimization using surrogate model and active sampling. Journal of Building Performance Simulation, 2020, 13, 760-776.	1.0	25
14	Sectorial reflectance-based cleaning policy of heliostats for Solar Tower power plants. Renewable Energy, 2020, 166, 176-189.	4.3	7
15	Optimization of cleaning strategies for heliostat fields in solar tower plants. Solar Energy, 2020, 204, 501-514.	2.9	24
16	A heuristic approach for scheduling patient treatment in an emergency department based on bed blocking. International Journal of Industrial Engineering Computations, 2020, , 565-584.	0.4	5
17	Object-oriented modelling of an external receiver for solar tower application: Dynamic simulation and impact of soiling. AIP Conference Proceedings, 2020, , .	0.3	2
18	A state-constrained optimal control based trajectory planning strategy for cooperative freeway mainline facilitating and on-ramp merging maneuvers under congested traffic. Transportation Research Part C: Emerging Technologies, 2019, 109, 321-342.	3.9	47

#	Article	IF	Citations
19	In-situ reflectivity monitoring of heliostats using calibration cameras. AIP Conference Proceedings, 2019, , .	0.3	1
20	Modelling the soiling of heliostats: Assessment of the optical efficiency and impact of cleaning operations. AIP Conference Proceedings, 2019, , .	0.3	11
21	A multi-sensor approach to remaining useful life estimation for a slurry pump. Measurement: Journal of the International Measurement Confederation, 2019, 139, 140-151.	2.5	28
22	A Case Study on the Replacement Policy for a Pan System of Sugar Industry. , 2019, , .		0
23	Ecological and safe driving: A model predictive control approach considering spatial and temporal constraints. Transportation Research, Part D: Transport and Environment, 2019, 67, 208-222.	3.2	23
24	Optimal Vehicle Trajectory Planning With Control Constraints and Recursive Implementation for Automated On-Ramp Merging. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3409-3420.	4.7	72
25	Degradation modeling and condition-based maintenance of boiler heat exchangers using gamma processes. Reliability Engineering and System Safety, 2019, 183, 184-196.	5.1	43
26	Effectiveness of optimized control strategy and different hub height turbines on a real wind farm optimization. Renewable Energy, 2018, 126, 819-829.	4.3	26
27	Building energy optimisation under uncertainty using ACOMV algorithm. Energy and Buildings, 2018, 167, 322-333.	3.1	43
28	Soiling of solar collectors â€“ Modelling approaches for airborne dust and its interactions with surfaces. Renewable and Sustainable Energy Reviews, 2018, 81, 2343-2357.	8.2	74
29	Predicting Maintenance Requirements for School Assets in Queensland. Lecture Notes in Mechanical Engineering, 2018, , 277-289.	0.3	0
30	Real-Time Joint Estimation of Traffic States and Parameters Using Cell Transmission Model and Considering Capacity Drop. , 2018, , .		5
31	Benefit Assessment of New Ecological and Safe driving Algorithm using Naturalistic Driving Data. , 2018, , .		1
32	Energy Efficiency and Tracking Performance Evaluation for Dual-Mode Model Predictive Control of HVAC Systems. Journal of Thermal Science and Engineering Applications, 2018, 10, .	0.8	3
33	Development and experimental validation of a physical model for the soiling of mirrors for CSP industry applications. Solar Energy, 2018, 173, 1287-1305.	2.9	35
34	Combined optimization of continuous wind turbine placement and variable hub height. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 180, 136-147.	1.7	14
35	Comparative study of discretization method and Monte Carlo method for wind farm layout optimization under Weibull distribution. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 180, 148-155.	1.7	23
36	Automated On-Ramp Merging and Gap Development with Speed Constraints â€“ A State-Constrained Optimal Control Approach. , 2018, , .		3

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37	Opportunistic maintenance considering non-homogenous opportunity arrivals and stochastic opportunity durations. Reliability Engineering and System Safety, 2017, 160, 151-161.	5.1	28
38	A computationally-efficient layout optimization method for real wind farms considering altitude variations. Energy, 2017, 132, 147-159.	4.5	23
39	Design optimization method for tube and fin latent heat thermal energy storage systems. Energy, 2017, 134, 585-594.	4.5	36
40	Multi-layer PCM solidification in a finned triplex tube considering natural convection. Applied Thermal Engineering, 2017, 123, 901-916.	3.0	55
41	Using support vector machines for the computationally efficient identification of acceptable design parameters in computer-aided engineering applications. Expert Systems With Applications, 2017, 81, 39-52.	4.4	18
42	A Dual-Mode Model Predictive Control Algorithm Trajectory Tracking in Discrete-Time Nonlinear Dynamic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	9
43	Extracting failure time data from industrial maintenance records using text mining. Advanced Engineering Informatics, 2017, 33, 388-396.	4.0	34
44	Optimization of wind farm layout with complex land divisions. Renewable Energy, 2017, 105, 30-40.	4.3	28
45	Optimal condition-based cleaning of solar power collectors. Solar Energy, 2017, 157, 762-777.	2.9	37
46	Ant colony algorithm for building energy optimisation problems and comparison with benchmark algorithms. Energy and Buildings, 2017, 154, 404-414.	3.1	60
47	A quantitative study on the impact of opportunistic maintenance in the presence of time-varying costs. , 2016, , .		2
48	Comparison of the effectiveness of analytical wake models for wind farm with constant and variable hub heights. Energy Conversion and Management, 2016, 124, 189-202.	4.4	57
49	A Data Fusion Approach of Multiple Maintenance Data Sources for Real-World Reliability Modelling. Lecture Notes in Mechanical Engineering, 2016, , 69-77.	0.3	1
50	Reliability Modelling for Electricity Transmission Networks Using Maintenance Records. Lecture Notes in Mechanical Engineering, 2016, , 397-406.	0.3	0
51	Making Optimal and Justifiable Asset Maintenance Decisions. Lecture Notes in Mechanical Engineering, 2015, , 253-263.	0.3	0
52	A Decision Support Framework for Prioritization of Engineering Asset Management Activities Under Uncertainty. Lecture Notes in Mechanical Engineering, 2015, , 49-60.	0.3	0
53	Degradation modeling and monitoring of machines using operation-specific hidden Markov models. IIE Transactions, 2014, 46, 1107-1123.	2.1	19
54	Condition Monitoring and Operational Decision Making in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2013, 26, 454-464.	1.4	10

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55	Model-Predictive Control and Closed-Loop Stability Considerations for Nonlinear Plants Described by Local ARX-Type Models. , 2013, , .		0
56	Precedent-Free Fault Isolation in a Diesel Engine Exhaust Gas Recirculation System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	5
57	Potentials of condition based monitoring in semiconductor manufacturing. , 2012, , .		0
58	Monitoring of complex systems of interacting dynamic systems. Applied Intelligence, 2012, 37, 60-79.	3.3	12
59	Precedent-Free Fault Isolation in a Diesel Engine EGR Valve System. , 2009, , .		2