Clayton Miller

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2962992/publications.pdf

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51	1,662	257450	289244
papers	citations	24 h-index	40 g-index

54	54	54	1170
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Personal thermal comfort models using digital twins: Preference prediction with BIM-extracted spatialâ€“temporal proximity data from Build2Vec. Building and Environment, 2022, 207, 108532.	6.9	35
2	BEEM: Data-driven building energy benchmarking for Singapore. Energy and Buildings, 2022, 260, 111869.	6.7	23
3	Using Google Trends as a proxy for occupant behavior to predict building energy consumption. Applied Energy, 2022, 310, 118343.	10.1	16
4	Energy balances, thermal performance, and heat stress: Disentangling occupant behaviour and weather influences in a Dutch net-zero energy neighborhood. Energy and Buildings, 2022, 263, 112020.	6.7	9
5	Fifty shades of grey: Automated stochastic model identification of building heat dynamics. Energy and Buildings, 2022, 266, 112095.	6.7	16
6	Targeting occupant feedback using digital twins: Adaptive spatialâ€“temporal thermal preference sampling to optimize personal comfort models. Building and Environment, 2022, 218, 109090.	6.9	15
7	Limitations of machine learning for building energy prediction: ASHRAE Great Energy Predictor III Kaggle competition error analysis. Science and Technology for the Built Environment, 2022, 28, 610-627.	1.7	12
8	ALDI++: Automatic and parameter-less discord and outlier detection for building energy load profiles. Energy and Buildings, 2022, 265, 112096.	6.7	3
9	Low-Cost Thermohygrometers to Assess Thermal Comfort in the Built Environment: A Laboratory Evaluation of Their Measurement Performance. Buildings, 2022, 12, 579.	3.1	6
10	Infrared thermography in the built environment: A multi-scale review. Renewable and Sustainable Energy Reviews, 2022, 165, 112540.	16.4	33
11	Islands of misfit buildings: Detecting uncharacteristic electricity use behavior using load shape clustering. Building Simulation, 2021, 14, 119-130.	5.6	23
12	Project Coolbit: can your watch predict heat stress and thermal comfort sensation?. Environmental Research Letters, 2021, 16, 034031.	5.2	44
13	Environmental Exposures in Singapore Schools: An Ecological Study. International Journal of Environmental Research and Public Health, 2021, 18, 1843.	2.6	3
14	Uncertainty Matters: Bayesian Probabilistic Forecasting for Residential Smart Meter Prediction, Segmentation, and Behavioral Measurement and Verification. Energies, 2021, 14, 1481.	3.1	10
15	Review of machine learning techniques for mosquito control in urban environments. Ecological Informatics, 2021, 61, 101241.	5.2	34
16	Data science for building energy efficiency: A comprehensive text-mining driven review of scientific literature. Energy and Buildings, 2021, 242, 110885.	6.7	31
17	Data mining cubes for buildings, a generic framework for multidimensional analytics of building performance data. Energy and Buildings, 2021, 248, 111195.	6.7	11
18	Operational characteristics of residential air conditioners with temporally granular remote thermographic imaging. , 2021, , .		5

#	Article	IF	Citations
19	Longitudinal personal thermal comfort preference data in the wild. , 2021, , .		4
20	The Internet-of-Buildings (IoB) â€" Digital twin convergence of wearable and IoT data with GIS/BIM. Journal of Physics: Conference Series, 2021, 2042, 012041.	0.4	21
21	Fifty shades of black. , 2021, , .		2
22	Design with Comfort: Expanding the psychrometric chart with radiation and convection dimensions. Energy and Buildings, 2020, 209, 109591.	6.7	24
23	SynCity: Using open data to create a synthetic city of hourly building energy estimates by integrating data-driven and physics-based methods. Applied Energy, 2020, 280, 115981.	10.1	52
24	The ASHRAE Great Energy Predictor III competition: Overview and results. Science and Technology for the Built Environment, 2020, 26, 1427-1447.	1.7	54
25	EnergyStar++: Towards more accurate and explanatory building energy benchmarking. Applied Energy, 2020, 276, 115413.	10.1	83
26	Spacematch: Using Environmental Preferences to Match Occupants to Suitable Activity-Based Workspaces. Frontiers in Built Environment, 2020, 6, .	2.3	24
27	The Building Data Genome Project 2, energy meter data from the ASHRAE Great Energy Predictor III competition. Scientific Data, 2020, 7, 368.	5.3	82
28	Humans-as-a-Sensor for Buildingsâ€"Intensive Longitudinal Indoor Comfort Models. Buildings, 2020, 10, 174.	3.1	69
29	Bayesian calibration at the urban scale: a case study on a large residential heating demand application in Amsterdam. Journal of Building Performance Simulation, 2020, 13, 347-361.	2.0	31
30	Introducing IEA EBC annex 79: Key challenges and opportunities in the field of occupant-centric building design and operation. Building and Environment, 2020, 178, 106738.	6.9	129
31	Balancing thermal comfort datasets. , 2020, , .		13
32	What's in the box?! Towards explainable machine learning applied to non-residential building smart meter classification. Energy and Buildings, 2019, 199, 523-536.	6.7	36
33	More Buildings Make More Generalizable Modelsâ€"Benchmarking Prediction Methods on Open Electrical Meter Data. Machine Learning and Knowledge Extraction, 2019, 1, 974-993.	5.0	26
34	The SDE4 Learning Trail: Crowdsourcing occupant comfort feedback at a net-zero energy building. Journal of Physics: Conference Series, 2019, 1343, 012141.	0.4	16
35	Is your clock-face cozie? A smartwatch methodology for the in-situ collection of occupant comfort data. Journal of Physics: Conference Series, 2019, 1343, 012145.	0.4	40
36	Apples or oranges? Identification of fundamental load shape profiles for benchmarking buildings using a large and diverse dataset. Applied Energy, 2019, 236, 1280-1295.	10.1	61

#	Article	IF	Citations
37	A Cyber-Physical Middleware Platform for Buildings in Smart Cities. , 2019, , 645-652.		1
38	Towards Class-Balancing Human Comfort Datasets with GANs. , 2019, , .		9
39	A review of unsupervised statistical learning and visual analytics techniques applied to performance analysis of non-residential buildings. Renewable and Sustainable Energy Reviews, 2018, 81, 1365-1377.	16.4	109
40	Comparing the indoor environmental quality of a displacement ventilation and passive chilled beam application to conventional air-conditioning in the Tropics. Building and Environment, 2018, 130, 128-142.	6.9	22
41	Urban and building multiscale co-simulation: case study implementations on two university campuses. Journal of Building Performance Simulation, 2018, 11, 309-321.	2.0	40
42	Mining electrical meter data to predict principal building use, performance class, and operations strategy for hundreds of non-residential buildings. Energy and Buildings, 2017, 156, 360-373.	6.7	44
43	The Building Data Genome Project: An open, public data set from non-residential building electrical meters. Energy Procedia, 2017, 122, 439-444.	1.8	114
44	Unsupervised load shape clustering for urban building performance assessment. Energy Procedia, 2017, 122, 229-234.	1.8	11
45	Predicting success of energy savings interventions and industry type using smart meter and retrofit data from thousands of non-residential buildings. , 2017, , .		3
46	Energy Storage for PV-Driven Air-Conditioning for an Off-Grid Resort â€“ A Case Study. , 2017, , .		4
47	Automated daily pattern filtering of measured building performance data. Automation in Construction, 2015, 49, 1-17.	9.8	137
48	Balancing envelope and heating system parameters for zero emissions retrofit using building sensor data. Applied Energy, 2014, 131, 56-66.	10.1	50
49	BubbleZEROâ€”Design, Construction and Operation of a Transportable Research Laboratory for Low Exergy Building System Evaluation in the Tropics. Energies, 2013, 6, 4551-4571.	3.1	19
50	A Data-Driven Load Shape Profile Based Building Benchmarking: Comparing Doe Reference Buildings With A Large Metering Dataset. , 0, , .		0
51	Twenty Years of Building Performance Analysis Trends: A Topic Modeling Analysis of the Bldg-Sim Email List Archive. , 0, , .		0