

Lucas Pereira

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

816
citations

687220

13
h-index

610775

24
g-index

63
all docs

63
docs citations

63
times ranked

494
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance evaluation in non-intrusive load monitoring: Datasets, metrics, and tools—A review. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1265.	4.6	107
2	Adaptive Weighted Recurrence Graphs for Appliance Recognition in Non-Intrusive Load Monitoring. IEEE Transactions on Smart Grid, 2021, 12, 398-406.	6.2	67
3	UNet-NILM. , 2020, , .		53
4	Improved Appliance Classification in Non-Intrusive Load Monitoring Using Weighted Recurrence Graph and Convolutional Neural Networks. Energies, 2020, 13, 3374.	1.6	41
5	PB-NILM: Pinball Guided Deep Non-Intrusive Load Monitoring. IEEE Access, 2020, 8, 48386-48398.	2.6	38
6	Watt™s up at Home? Smart Meter Data Analytics from a Consumer-Centric Perspective. Energies, 2021, 14, 719.	1.6	38
7	Multi-Label Learning for Appliance Recognition in NILM Using Fryze-Current Decomposition and Convolutional Neural Network. Energies, 2020, 13, 4154.	1.6	32
8	Implementation Strategy of Convolution Neural Networks on Field Programmable Gate Arrays for Appliance Classification Using the Voltage and Current (V-I) Trajectory. Energies, 2018, 11, 2460.	1.6	30
9	Arbitrage With Power Factor Correction Using Energy Storage. IEEE Transactions on Power Systems, 2020, 35, 2693-2703.	4.6	29
10	Understanding families™ motivations for sustainable behaviors. Computers in Human Behavior, 2014, 40, 6-15.	5.1	27
11	SustData: A Public Dataset for ICT4S Electric Energy Research. , 0, , .		27
12	Developing and evaluating a probabilistic event detector for non-intrusive load monitoring. , 2017, , .		21
13	A comparison of performance metrics for event classification in Non-Intrusive Load Monitoring. , 2017, , .		21
14	Electricity Consumption Data Sets. , 2019, , .		19
15	An empirical exploration of performance metrics for event detection algorithms in Non-Intrusive Load Monitoring. Sustainable Cities and Society, 2020, 62, 102399.	5.1	17
16	The design of a hardware-software platform for long-term energy eco-feedback research. , 2012, , .		14
17	Economic Assessment of Solar-Powered Residential Battery Energy Storage Systems: The Case of Madeira Island, Portugal. Applied Sciences (Switzerland), 2020, 10, 7366.	1.3	14
18	WATTSBurning: Design and Evaluation of an Innovative Eco-Feedback System. Lecture Notes in Computer Science, 2013, , 453-470.	1.0	14

#	ARTICLE	IF	CITATIONS
19	SustDataED: A Public Dataset for Electric Energy Disaggregation Research. , 2016, , .		14
20	FPSeq2Q: Fully Parameterized Sequence to Quantile Regression for Net-Load Forecasting With Uncertainty Estimates. IEEE Transactions on Smart Grid, 2022, 13, 2440-2451.	6.2	14
21	Understanding the practical issues of deploying energy monitoring and eco-feedback technology in the wild: Lesson learned from three long-term deployments. Energy Reports, 2020, 6, 94-106.	2.5	13
22	Understanding the Limitations of Eco-feedback: A One-Year Long-Term Study. Lecture Notes in Computer Science, 2013, , 237-255.	1.0	13
23	Energy storage in Madeira, Portugal: co-optimizing for arbitrage, self-sufficiency, peak shaving and energy backup. , 2019, , .		12
24	A residential labeled dataset for smart meter data analytics. Scientific Data, 2022, 9, 134.	2.4	12
25	Semi-automatic labeling for public non-intrusive load monitoring datasets. , 2015, , .		9
26	Engineering and deploying a hardware and software platform to collect and label non-intrusive load monitoring datasets. , 2017, , .		9
27	dsCleaner: A Python Library to Clean, Preprocess and Convert Non-Intrusive Load Monitoring Datasets. Data, 2019, 4, 123.	1.2	9
28	FIKWater: A Water Consumption Dataset from Three Restaurant Kitchens in Portugal. Data, 2021, 6, 26.	1.2	9
29	NILMPEds: A Performance Evaluation Dataset for Event Detection Algorithms in Non-Intrusive Load Monitoring. Data, 2019, 4, 127.	1.2	7
30	Impact of Forecasting Models Errors in a Peer-to-Peer Energy Sharing Market. Energies, 2022, 15, 3543.	1.6	7
31	Show Me or Tell Me: Designing Avatars for Feedback. Interacting With Computers, 2015, 27, 458-469.	1.0	6
32	EMD-DF. , 2017, , .		6
33	Sizing and Profitability of Energy Storage for Prosumers in Madeira, Portugal. , 2020, , .		6
34	Energy Monitoring in the Wild: Platform Development and Lessons Learned from a Real-World Demonstrator. Energies, 2021, 14, 5786.	1.6	6
35	Privacy protection in smart meters using homomorphic encryption: An overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2022, 12, .	4.6	6
36	WattsBurning on My Mailbox: A Tangible Art Inspired Eco-feedback Visualization for Sharing Energy Consumption. Lecture Notes in Computer Science, 2013, , 133-140.	1.0	5

#	ARTICLE	IF	CITATIONS
37	SURF and SURF-PI. , 2014, , .		4
38	Co-optimizing Energy Storage for Prosumers using Convex Relaxations. , 2019, , .		3
39	Future Industrial Kitchen. , 2019, , .		3
40	MyTukxi. , 2019, , .		2
41	On the Value Proposition of Battery Energy Storage in Self-Consumption Only Scenarios: A Case-Study in Madeira Island. , 2019, , .		2
42	HomeTree â€™ An Art Inspired Mobile Eco-feedback Visualization. Lecture Notes in Computer Science, 2012, , 545-548.	1.0	2
43	What-a-Watt: exploring electricity production literacy through a long term eco-feedback study. , 2015, , .		1
44	A mouse over a hotspot survey: An exploration of perceptions of electricity consumption and patterns of indecision. , 2017, , .		1
45	On the Challenges of Charging Electric Vehicles in Domestic Environments. , 2018, , .		1
46	A Mouse (H)Over a Hotspot Survey. , 2019, , .		1
47	FIKWaste: A Waste Generation Dataset from Three Restaurant Kitchens in Portugal. Data, 2021, 6, 25.	1.2	1
48	Ultrasonic waste monitoring in the future industrial kitchen. , 2019, , .		1
49	Understanding the challenges behind Electric Vehicle usage by drivers - a case study in the Madeira Autonomous Region. , 2020, , .		1
50	LOW COST FRAMEWORK FOR NON-INTRUSIVE HOME ENERGY MONITORING AND RESEARCH. , 2012, , .		1
51	On the Relationship between Seasons of the Year and Disaggregation Performance. , 2020, , .		1
52	A novel methodology for identifying appliance usage patterns in buildings based on auto-correlation and probability distribution analysis. Energy and Buildings, 2022, 256, 111618.	3.1	1
53	A data model and file format to represent and store high frequency energy monitoring and disaggregation datasets. Scientific Reports, 2022, 12, .	1.6	1
54	Towards systematic performance evaluation of non-intrusive load monitoring algorithms and systems. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
55	EnerSpectrum: exposing the source of energy through plug-level eco-feedback. , 2015, , .		0
56	A global monitoring system for electricity consumption and production of household roof-top PV systems in Madeira. Neural Computing and Applications, 2020, 32, 15835-15844.	3.2	0
57	Energy Storage Optimization for Grid Reliability. , 2020, , .		0
58	Data Storage and Maintenance Challenges: The Case of Advanced Metering Infrastructure Systems. , 0, , .		0