Lucas Pereira

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6755190/publications.pdf

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58	816	686830	610482
papers	citations	13 h-index	24 g-index

63	63	63	494
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	A residential labeled dataset for smart meter data analytics. Scientific Data, 2022, 9, 134.	2.4	12
4	Impact of Forecasting Models Errors in a Peer-to-Peer Energy Sharing Market. Energies, 2022, 15, 3543.	1.6	7
5	A data model and file format to represent and store high frequency energy monitoring and disaggregation datasets. Scientific Reports, 2022, 12, .	1.6	1
6	Privacy protection in smart meters using homomorphic encryption: An overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2022, 12, .	4.6	6
7	Adaptive Weighted Recurrence Graphs for Appliance Recognition in Non-Intrusive Load Monitoring. IEEE Transactions on Smart Grid, 2021, 12, 398-406.	6.2	67
8	Wattâ€™s up at Home? Smart Meter Data Analytics from a Consumer-Centric Perspective. Energies, 2021, 14, 719.	1.6	38
9	FIKWaste: A Waste Generation Dataset from Three Restaurant Kitchens in Portugal. Data, 2021, 6, 25.	1.2	1
10	FIKWater: A Water Consumption Dataset from Three Restaurant Kitchens in Portugal. Data, 2021, 6, 26.	1.2	9
11	Energy Monitoring in the Wild: Platform Development and Lessons Learned from a Real-World Demonstrator. Energies, 2021, 14, 5786.	1.6	6
12	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
13	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
14	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
15	Sizing and Profitability of Energy Storage for Prosumers in Madeira, Portugal. , 2020, , .		6
16	Improved Appliance Classification in Non-Intrusive Load Monitoring Using Weighted Recurrence Graph and Convolutional Neural Networks. Energies, 2020, 13, 3374.	1.6	41
17	Multi-Label Learning for Appliance Recognition in NILM Using Fryze-Current Decomposition and Convolutional Neural Network. Energies, 2020, 13, 4154.	1.6	32
18	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

#	Article	IF	Citations
19	Arbitrage With Power Factor Correction Using Energy Storage. IEEE Transactions on Power Systems, 2020, 35, 2693-2703.	4.6	29
20	PB-NILM: Pinball Guided Deep Non-Intrusive Load Monitoring. IEEE Access, 2020, 8, 48386-48398.	2.6	38
21	Understanding the challenges behind Electric Vehicle usage by drivers - a case study in the Madeira Autonomous Region. , 2020, , .		1
22	UNet-NILM. , 2020, , .		53
23	Energy Storage Optimization for Grid Reliability. , 2020, , .		0
24	On the Relationship between Seasons of the Year and Disaggregation Performance. , 2020, , .		1
25	NILMPEds: A Performance Evaluation Dataset for Event Detection Algorithms in Non-Intrusive Load Monitoring. Data, 2019, 4, 127.	1.2	7
26	Energy storage in Madeira, Portugal: co-optimizing for arbitrage, self-sufficiency, peak shaving and energy backup. , 2019, , .		12
27	A Mouse (H)Over a Hotspot Survey. , 2019, , .		1
28	MyTukxi. , 2019, , .		2
29	Co-optimizing Energy Storage for Prosumers using Convex Relaxations. , 2019, , .		3
30	On the Value Proposition of Battery Energy Storage in Self-Consumption Only Scenarios: A Case-Study in Madeira Island. , 2019, , .		2
31	dsCleaner: A Python Library to Clean, Preprocess and Convert Non-Instrusive Load Monitoring Datasets. Data, 2019, 4, 123.	1.2	9
32	Ultrasonic waste monitoring in the future industrial kitchen. , 2019, , .		1
33	Electricity Consumption Data Sets. , 2019, , .		19
34	Future Industrial Kitchen. , 2019, , .		3
35	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
36	On the Challenges of Charging Electric Vehicles in Domestic Environments. , 2018, , .		1

#	Article	IF	Citations
37	Performance evaluation in nonâ€intrusive load monitoring: Datasets, metrics, and toolsâ€”A review. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1265.	4.6	107
38	Engineering and deploying a hardware and software platform to collect and label non-intrusive load monitoring datasets. , 2017, , .		9
39	A mouse over a hotspot survey: An exploration of perceptions of electricity consumption and patterns of indecision. , 2017, , .		1
40	EMD-DF. , 2017, , .		6
41	Developing and evaluating a probabilistic event detector for non-intrusive load monitoring. , 2017, , .		21
42	A comparison of performance metrics for event classification in Non-Intrusive Load Monitoring. , 2017, , .		21
43	SustDataED: A Public Dataset for Electric Energy Disaggregation Research. , 2016, , .		14
44	Show Me or Tell Me: Designing Avatars for Feedback. Interacting With Computers, 2015, 27, 458-469.	1.0	6
45	What-a-Watt: exploring electricity production literacy through a long term eco-feedback study. , 2015, , .		1
46	Towards systematic performance evaluation of non-intrusive load monitoring algorithms and systems. , 2015, , .		0
47	Semi-automatic labeling for public non-intrusive load monitoring datasets. , 2015, , .		9
48	EnerSpectrum: exposing the source of energy through plug-level eco-feedack. , 2015, , .		0
49	SURF and SURF-PI. , 2014, , .		4
50	Understanding familiesâ€™ motivations for sustainable behaviors. Computers in Human Behavior, 2014, 40, 6-15.	5.1	27
51	Understanding the Limitations of Eco-feedback: A One-Year Long-Term Study. Lecture Notes in Computer Science, 2013, , 237-255.	1.0	13
52	WATTSBurning: Design and Evaluation of an Innovative Eco-Feedback System. Lecture Notes in Computer Science, 2013, , 453-470.	1.0	14
53	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
54	The design of a hardware-software platform for long-term energy eco-feedback research. , 2012, , .		14

#	Article	IF	Citations
55	HomeTree â€“ An Art Inspired Mobile Eco-feedback Visualization. Lecture Notes in Computer Science, 2012, , 545-548.	1.0	2
56	LOW COST FRAMEWORK FOR NON-INTRUSIVE HOME ENERGY MONITORING AND RESEARCH. , 2012, , .		1
57	SustData: A Public Dataset for ICT4S Electric Energy Research. , 0, , .		27
58	Data Storage and Maintenance Challenges: The Case of Advanced Metering Infrastructure Systems. , 0, , .		0