Mario BergÃ©s

List of Publications by Year
in descending order

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Version: 2024-02-01

45 papers	1,123 citations	516710 16 h-index	610901 24 g-index
45 all docs	45 docs citations	45 times ranked	1048 citing authors

#	Article	IF	Citations
1	An Overview of Root Cause Analysis of Faults in Heating, Ventilation, and Air Conditioning (HVAC) Systems. , 2022, , .		1
2	Evaluating Multi-Task Learning for Energy Disaggregation on Synthetic High-Resolution Data. , 2022, , .		0
3	Characterizing Perceived Data Sharing Barriers and Promotion Strategies in Civil Engineering. , 2022, , .		1
4	Effects of Climate Change on Capacity Expansion Decisions of an Electricity Generation Fleet in the Southeast U.S.. Environmental Science & Technology, 2021, 55, 2522-2531.	10.0	30
5	Climate-Induced Tradeoffs in Planning and Operating Costs of a Regional Electricity System. Environmental Science & Technology, 2021, 55, 11204-11215.	10.0	5
6	Short-term probabilistic forecasting of meso-scale near-surface urban temperature fields. Environmental Modelling and Software, 2021, 145, 105189.	4.5	6
7	Formalized control logic fault definition with ontological reasoning for air handling units. Automation in Construction, 2021, 129, 103781.	9.8	9
8	Damage-Sensitive and Domain-Invariant Feature Extraction for Vehicle-Vibration-Based Bridge Health Monitoring. , 2020, , .		6
9	A voltage and current measurement dataset for plug load appliance identification in households. Scientific Data, 2020, 7, 49.	5.3	50
10	Developing Time-Variant Filter for Meso-Scale Surface Temperature Prediction. IABSE Symposium Report, 2020, , .	0.0	0
11	A damage localization and quantification algorithm for indirect structural health monitoring of bridges using multi-task learning. AIP Conference Proceedings, 2019, , .	0.4	9
12	Dynamic responses, GPS positions and environmental conditions of two light rail vehicles in Pittsburgh. Scientific Data, 2019, 6, 146.	5.3	5
13	Seasonal effects of climate change on intra-day electricity demand patterns. Climatic Change, 2019, 154, 435-451.	3.6	25
14	Dataset. , 2019, , .		5
15	Dataset. , 2019, , .		4
16	Data-driven Thermal Model Inference with ARMAX, in Smart Environments, based on Normalized Mutual Information. , 2018, , .		6
17	Surface heat assessment for developed environments: Optimizing urban temperature monitoring. Building and Environment, 2018, 141, 143-154.	6.9	11
18	VI-Based Appliance Classification Using Aggregated Power Consumption Data. , 2018, , .		22

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19	Data-Driven Operation of Building Systems: Present Challenges and Future Prospects. Lecture Notes in Computer Science, 2018, , 23-52.	1.3	0
20	An error correction framework for sequences resulting from known state-transition models in Non-Intrusive Load Monitoring. Advanced Engineering Informatics, 2017, 32, 152-162.	8.0	5
21	Surface heat assessment for developed environments: Probabilistic urban temperature modeling. Computers, Environment and Urban Systems, 2017, 66, 53-64.	7.1	14
22	Handling imbalance in an extended PLAID. , 2017, , .		21
23	Design and implementation of a low-cost arduino-based high-frequency AC waveform meter board for the raspberry pi. , 2017, , .		3
24	An effect at the source creates ringing in a thick plate. , 2017, , .		0
25	Sparse representation of ultrasonic guided-waves for robust damage detection in pipelines under varying environmental and operational conditions. Structural Control and Health Monitoring, 2016, 23, 369-391.	4.0	30
26	A feasibility study of automated plug-load identification from high-frequency measurements. , 2015, , .		74
27	An energy estimation framework for event-based methods in Non-Intrusive Load Monitoring. Energy Conversion and Management, 2015, 90, 488-498.	9.2	60
28	Robust ultrasonic damage detection under complex environmental conditions using singular value decomposition. Ultrasonics, 2015, 58, 75-86.	3.9	89
29	Impact of Disturbances on Modeling of Thermostatically Controlled Loads for Demand Response. IEEE Transactions on Smart Grid, 2015, 6, 2560-2568.	9.0	31
30	Exploration and evaluation of AR, MPCA and KL anomaly detection techniques to embankment dam piezometer data. Advanced Engineering Informatics, 2015, 29, 902-917.	8.0	23
31	PLAID: a public dataset of high-resoultion electrical appliance measurements for load identification research. , 2014, , .		135
32	Special Issue on Computational Approaches to Understand and Reduce Energy Consumption in the Built Environment. Journal of Computing in Civil Engineering, 2014, 28, 1-1.	4.7	23
33	An unsupervised hierarchical clustering based heuristic algorithm for facilitated training of electricity consumption disaggregation systems. Advanced Engineering Informatics, 2014, 28, 311-326.	8.0	38
34	A moving horizon state estimator in the control of thermostatically controlled loads for demand response. , 2013, , .		16
35	Extending the information delivery manual approach to identify information requirements for performance analysis of HVAC systems. Advanced Engineering Informatics, 2013, 27, 496-505.	8.0	28
36	Towards automated appliance recognition using an EMF sensor in NILM platforms. Advanced Engineering Informatics, 2013, 27, 477-485.	8.0	30

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37	One size does not fit all: Averaged data on household electricity is inadequate for residential energy policy and decisions. Energy and Buildings, 2013, 64, 132-144.	6.7	40
38	Exploring Sequential and Association Rule Mining for Pattern-based Energy Demand Characterization. , 2013, , .		10
39	Robust change detection in highly dynamic guided wave signals with singular value decomposition. , 2012, , .		10
40	Using smart devices for system-level management and control in the smart grid: A reinforcement learning framework. , 2012, , .		29
41	Data-Fusion Approaches and Applications for Construction Engineering. Journal of Construction Engineering and Management - ASCE, 2011, 137, 863-869.	3.8	38
42	Robust adaptive event detection in non-intrusive load monitoring for energy aware smart facilities. , 2011, , .		26
43	User-Centered Nonintrusive Electricity Load Monitoring for Residential Buildings. Journal of Computing in Civil Engineering, 2011, 25, 471-480.	4.7	109
44	Requirements for an Integrated Framework of Self-Managing HVAC Systems. , 2011, , .		5
45	Training load monitoring algorithms on highly sub-metered home electricity consumption data. Tsinghua Science and Technology, 2008, 13, 406-411.	6.1	41