

# Mario BergÃ©s

## List of Publications by Year in descending order

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45  
papers

1,123  
citations

516561

16  
h-index

610775

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.	4.6	30
5	Climate-Induced Tradeoffs in Planning and Operating Costs of a Regional Electricity System. Environmental Science & Technology, 2021, 55, 11204-11215.	4.6	5
6	Short-term probabilistic forecasting of meso-scale near-surface urban temperature fields. Environmental Modelling and Software, 2021, 145, 105189.	1.9	6
7	Formalized control logic fault definition with ontological reasoning for air handling units. Automation in Construction, 2021, 129, 103781.	4.8	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.	2.4	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, , .	0.3	9
12	Dynamic responses, GPS positions and environmental conditions of two light rail vehicles in Pittsburgh. Scientific Data, 2019, 6, 146.	2.4	5
13	Seasonal effects of climate change on intra-day electricity demand patterns. Climatic Change, 2019, 154, 435-451.	1.7	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.	3.0	11
18	VI-Based Appliance Classification Using Aggregated Power Consumption Data. , 2018, , .		22

#	ARTICLE	IF	CITATIONS
19	Data-Driven Operation of Building Systems: Present Challenges and Future Prospects. Lecture Notes in Computer Science, 2018, , 23-52.	1.0	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.	4.0	5
21	Surface heat assessment for developed environments: Probabilistic urban temperature modeling. Computers, Environment and Urban Systems, 2017, 66, 53-64.	3.3	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.	1.9	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.	4.4	60
28	Robust ultrasonic damage detection under complex environmental conditions using singular value decomposition. Ultrasonics, 2015, 58, 75-86.	2.1	89
29	Impact of Disturbances on Modeling of Thermostatically Controlled Loads for Demand Response. IEEE Transactions on Smart Grid, 2015, 6, 2560-2568.	6.2	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.	4.0	23
31	PLAID: a public dataset of high-resolution 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.	2.5	23
33	An unsupervised hierarchical clustering based heuristic algorithm for facilitated training of electricity consumption disaggregation systems. Advanced Engineering Informatics, 2014, 28, 311-326.	4.0	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.	4.0	28
36	Towards automated appliance recognition using an EMF sensor in NILM platforms. Advanced Engineering Informatics, 2013, 27, 477-485.	4.0	30

#	ARTICLE	IF	CITATIONS
37	One size does not fit all: Averaged data on household electricity is inadequate for residential energy policy and decisions. <i>Energy and Buildings</i> , 2013, 64, 132-144.	3.1	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. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011, 137, 863-869.	2.0	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. <i>Journal of Computing in Civil Engineering</i> , 2011, 25, 471-480.	2.5	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. <i>Tsinghua Science and Technology</i> , 2008, 13, 406-411.	4.1	41