Farrokh Jazizadeh

List of Publications by Year
in descending order

57 papers	**2,735** citations	304368 **22** h-index	360668 **35** g-index
58 all docs	**58** docs citations	**58** times ranked	**2218** citing authors

#	Article	IF	Citations
1	Application Areas and Data Requirements for BIM-Enabled Facilities Management. Journal of Construction Engineering and Management - ASCE, 2012, 138, 431-442.	2.0	601
2	Coordinating occupant behavior for building energy and comfort management using multi-agent systems. Automation in Construction, 2012, 22, 525-536.	4.8	278
3	Human-in-the-loop HVAC operations: A quantitative review on occupancy, comfort, and energy-efficiency dimensions. Applied Energy, 2019, 239, 1471-1508.	5.1	192
4	User-led decentralized thermal comfort driven HVAC operations for improved efficiency in office buildings. Energy and Buildings, 2014, 70, 398-410.	3.1	170
5	A knowledge based approach for selecting energy-aware and comfort-driven HVAC temperature set points. Energy and Buildings, 2014, 85, 536-548.	3.1	148
6	Human-Building Interaction Framework for Personalized Thermal Comfort-Driven Systems in Office Buildings. Journal of Computing in Civil Engineering, 2014, 28, 2-16.	2.5	140
7	Unsupervised Approach for Autonomous Pavement-Defect Detection and Quantification Using an Inexpensive Depth Sensor. Journal of Computing in Civil Engineering, 2013, 27, 743-754.	2.5	118
8	Residential loads flexibility potential for demand response using energy consumption patterns and user segments. Applied Energy, 2019, 254, 113693.	5.1	117
9	BIM-Enabled Virtual and Collaborative Construction Engineering and Management. Journal of Professional Issues in Engineering Education and Practice, 2012, 138, 234-245.	0.9	91
10	Comparative assessment of HVAC control strategies using personal thermal comfort and sensitivity models. Building and Environment, 2019, 158, 104-119.	3.0	82
11	Personalized thermal comfort inference using RGB video images for distributed HVAC control. Applied Energy, 2018, 220, 829-841.	5.1	80
12	What drives our behaviors in buildings? A review on occupant interactions with building systems from the lens of behavioral theories. Building and Environment, 2020, 179, 106928.	3.0	73
13	Assessment of target types and layouts in 3D laser scanning for registration accuracy. Automation in Construction, 2011, 20, 649-658.	4.8	65
14	A thermal preference scale for personalized comfort profile identification via participatory sensing. Building and Environment, 2013, 68, 140-149.	3.0	62
15	Correlation of ambient air temperature and cognitive performance: A systematic review and meta-analysis. Building and Environment, 2018, 143, 701-716.	3.0	48
16	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
17	Energy saving potentials of integrating personal thermal comfort models for control of building systems: Comprehensive quantification through combinatorial consideration of influential parameters. Applied Energy, 2020, 268, 114882.	5.1	36
18	Vision-based thermal comfort quantification for HVAC control. Building and Environment, 2018, 142, 513-523.	3.0	34

#	Article	IF	Citations
19	Personalized Thermal Comfort-Driven Control in HVAC-Operated Office Buildings. , 2013, , .		28
20	Heat Flux Sensing for Machine-Learning-Based Personal Thermal Comfort Modeling. Sensors, 2019, 19, 3691.	2.1	26
21	Self-configuring event detection in electricity monitoring for human-building interaction. Energy and Buildings, 2019, 187, 95-109.	3.1	26
22	Continuous Sensing of Occupant Perception of Indoor Ambient Factors. , 2011, , .		25
23	Toward adaptive comfort management in office buildings using participatory sensing for end user driven control. , 2012, , .		23
24	Spatiotemporal lighting load disaggregation using light intensity signal. Energy and Buildings, 2014, 69, 572-583.	3.1	23
25	EMBED. , 2018, , .		23
26	A Machine Learning Framework to Infer Time-of-Use of Flexible Loads: Resident Behavior Learning for Demand Response. IEEE Access, 2020, 8, 111718-111730.	2.6	22
27	An automated spectral clustering for multi-scale data. Neurocomputing, 2019, 347, 94-108.	3.5	19
28	flEECe, an energy use and occupant behavior dataset for net-zero energy affordable senior residential buildings. Scientific Data, 2019, 6, 291.	2.4	16
29	Adaptive and distributed operation of HVAC systems: Energy and comfort implications of active diffusers as new adaptation capacities. Building and Environment, 2020, 186, 107089.	3.0	12
30	AI-powered virtual assistants nudging occupants for energy saving: proactive smart speakers for HVAC control. Building Research and Information, 2022, 50, 394-409.	2.0	12
31	Towards integration of doppler radar sensors into personalized thermoregulation-based control of HVAC. , 2017, , .		9
32	mD-Resilience: A Multi-Dimensional Approach for Resilience-Based Performance Assessment in Urban Transportation. Sustainability, 2020, 12, 4879.	1.6	9
33	Quantification of Demand-Supply Balancing Capacity among Prosumers and Consumers: Community Self-Sufficiency Assessment for Energy Trading. Energies, 2021, 14, 4318.	1.6	9
34	Can computers visually quantify human thermal comfort?. , 2016, , .		8
35	Online Learning for Personalized Room-Level Thermal Control. , 2013, , .		7
36	Effects of Color, Distance, and Incident Angle on Quality of 3D Point Clouds. , 2011, , .		6

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37	A novel system for road surface monitoring using an inexpensive infrared laser sensor. , 2012, , .		6
38	Non-Intrusive Detection of Respiration for Smart Control of HVAC System. , 2017, , .		6
39	Smart HVAC Systems â€" Adjustable Airflow Direction. Lecture Notes in Computer Science, 2018, , 193-209.	1.0	5
40	Two-Stage Clustering of Household Electricity Load Shapes for Improved Temporal Pattern Representation. IEEE Access, 2021, 9, 151667-151680.	2.6	5
41	Data-Driven Identification of Consumers With Deferrable Loads for Demand Response Programs. IEEE Embedded Systems Letters, 2020, 12, 54-57.	1.3	4
42	Urban Transportation System Resilience and Diversity Coupling using Large-scale Taxicab GPS Data. , 2019, , .		4
43	Semantic search in household energy consumption segmentation through descriptive characterization. , 2019, , .		4
44	Development of a three-dimensional numerical model to solve shallow-water equations in compound channels. Canadian Journal of Civil Engineering, 2008, 35, 963-974.	0.7	3
45	Towards Urban Facilities Energy Performance Evaluation Using Remote Sensing. Procedia Engineering, 2016, 145, 916-923.	1.2	3
46	Investigating the Appliance Use Patterns on the Householdsâ€™ Electricity Load Shapes from Smart Meters. , 2019, , .		3
47	Assessing the Relationship between Transportation Diversity and Road Network Congestion Using Participatory-Sensing Data. , 2019, , .		3
48	Using Statistical Models to Detect Occupancy in Buildings through Monitoring VOC, CO $_2$, and Other Environmental Factors. , 2022, , .		2
49	Building Energy Monitoring Realization: Context-Aware Event Detection Algorithms for Non-Intrusive Electricity Disaggregation. , 2016, , .		1
50	Artificial Versus Natural Light Source Identification with Light Intensity Sensors for Energy Monitoring. Procedia Engineering, 2016, 145, 956-963.	1.2	1
51	Towards Light Intensity Assisted Non-Intrusive Electricity Disaggregation. , 2017, , .		1
52	Human-in-the-Loop Model Predictive Operation for Energy Efficient HVAC Systems. , 2022, , .		1
53	Nudging Occupants for Energy-Saving through Voice-Based Proactive Virtual Assistants. , 2022, , .		1
54	Assessment of Holographic Environment for Learning Sensing Technologies in CEM Education. , 2022, , .		1

#	Article	IF	Citations
55	A Dynamic Controller for Residential Energy Management at the Intersection of Occupant Thermal Comfort and Dynamic Electricity Price. , 2022, , .		1
56	Proactive Smart Home Assistants for Automationâ€"User Characteristic-Based Preference Prediction with Machine Learning Techniques. , 2022, , .		1
57	Feasibility Assessment of Heat Flux Sensors for Human-in-the-Loop HVAC Operations. , 2019, , .		0