Abdullah Alsalemi

List of Publications by Year
in descending order

61 papers	1,569 citations	331259 21 h-index	344852 36 g-index
63 all docs	63 docs citations	63 times ranked	479 citing authors

#	Article	IF	Citations
1	Artificial intelligence based anomaly detection of energy consumption in buildings: A review, current trends and new perspectives. Applied Energy, 2021, 287, 116601.	5.1	264
2	A survey of recommender systems for energy efficiency in buildings: Principles, challenges and prospects. Information Fusion, 2021, 72, 1-21.	11.7	80
3	Robust event-based non-intrusive appliance recognition using multi-scale wavelet packet tree and ensemble bagging tree. Applied Energy, 2020, 267, 114877.	5.1	78
4	A Novel Approach for Detecting Anomalous Energy Consumption Based on Micro-Moments and Deep Neural Networks. Cognitive Computation, 2020, 12, 1381-1401.	3.6	76
5	Building power consumption datasets: Survey, taxonomy and future directions. Energy and Buildings, 2020, 227, 110404.	3.1	61
6	The emergence of explainability of intelligent systems: Delivering explainable and personalized recommendations for energy efficiency. International Journal of Intelligent Systems, 2021, 36, 656-680.	3.3	54
7	Smart power consumption abnormality detection in buildings using micromoments and improved K‑nearest neighbors. International Journal of Intelligent Systems, 2021, 36, 2865-2894.	3.3	51
8	Blockchain-based recommender systems: Applications, challenges and future opportunities. Computer Science Review, 2022, 43, 100439.	10.2	49
9	The Role of Micro-Moments: A Survey of Habitual Behavior Change and Recommender Systems for Energy Saving. IEEE Systems Journal, 2019, 13, 3376-3387.	2.9	48
10	Data fusion strategies for energy efficiency in buildings: Overview, challenges and novel orientations. Information Fusion, 2020, 64, 99-120.	11.7	46
11	Achieving Domestic Energy Efficiency Using Micro-Moments and Intelligent Recommendations. IEEE Access, 2020, 8, 15047-15055.	2.6	44
12	REHAB-C: Recommendations for Energy HABits Change. Future Generation Computer Systems, 2020, 112, 394-407.	4.9	43
13	Effective non-intrusive load monitoring of buildings based on a novel multi-descriptor fusion with dimensionality reduction. Applied Energy, 2020, 279, 115872.	5.1	42
14	Smart non-intrusive appliance identification using a novel local power histogramming descriptor with an improved k-nearest neighbors classifier. Sustainable Cities and Society, 2021, 67, 102764.	5.1	37
15	Endorsing domestic energy saving behavior using micro-moment classification. Applied Energy, 2019, 250, 1302-1311.	5.1	34
16	Smart fusion of sensor data and human feedback for personalized energy-saving recommendations. Applied Energy, 2022, 305, 117775.	5.1	32
17	Recent trends of smart nonintrusive load monitoring in buildings: A review, open challenges, and future directions. International Journal of Intelligent Systems, 2022, 37, 7124-7179.	3.3	31
18	An innovative edge-based Internet of Energy solution for promoting energy saving in buildings. Sustainable Cities and Society, 2022, 78, 103571.	5.1	29

#	Article	IF	Citations
19	Addressing the challenges of ECMO simulation. Perfusion (United Kingdom), 2018, 33, 568-576.	0.5	28
20	Intelligent Edge-Based Recommender System for Internet of Energy Applications. IEEE Systems Journal, 2022, 16, 5001-5010.	2.9	28
21	Real-Time Communication Network Using Firebase Cloud IoT Platform for ECMO Simulation. , 2017, , .		27
22	An intelligent nonintrusive load monitoring scheme based on 2D phase encoding of power signals. International Journal of Intelligent Systems, 2021, 36, 72-93.	3.3	27
23	â€œI Want to … Changeâ€: Micro-moment based Recommendations can Change Usersâ€™ Energy Habits. , 2019, , .		21
24	Smart Sensing and End-Usersâ€™ Behavioral Change in Residential Buildings: An Edge-Based Internet of Energy Perspective. IEEE Sensors Journal, 2021, 21, 27623-27631.	2.4	20
25	Revolutionizing ECMO simulation with affordable yet high-Fidelity technology. American Journal of Emergency Medicine, 2018, 36, 1310-1312.	0.7	19
26	Extracorporeal membrane oxygenation simulation-based training: methods, drawbacks and a novel solution. Perfusion (United Kingdom), 2019, 34, 183-194.	0.5	18
27	Techno-economic assessment of building energy efficiency systems using behavioral change: A case study of an edge-based micro-moments solution. Journal of Cleaner Production, 2022, 331, 129786.	4.6	18
28	A Micro-Moment System for Domestic Energy Efficiency Analysis. IEEE Systems Journal, 2021, 15, 1256-1263.	2.9	17
29	A model for predicting room occupancy based on motion sensor data. , 2020, , .		15
30	Real-time personalised energy saving recommendations. , 2020, , .		15
31	Using thermochromism to simulate blood oxygenation in extracorporeal membrane oxygenation. Perfusion (United Kingdom), 2019, 34, 106-115.	0.5	13
32	Data Analytics, Automations, and Micro-Moment Based Recommendations for Energy Efficiency. , 2020, , .		12
33	Smart Energy Usage and Visualization Based on Micro-moments. Advances in Intelligent Systems and Computing, 2020, , 557-566.	0.5	12
34	Interactive visual study for residential energy consumption data. Journal of Cleaner Production, 2022, 366, 132841.	4.6	12
35	Developing cost-effective simulators for patient management: A modular approach. , 2017, , .		11
36	Design and implementation of a modular ECMO simulator. Qatar Medical Journal, 2017, 2017, .	0.2	11

#	Article	IF	Citations
37	Energy Data Visualizations on Smartphones for Triggering Behavioral Change: Novel Vs. Conventional. , 2020, , .		11
38	Using big data and federated learning for generating energy efficiency recommendations. International Journal of Data Science and Analytics, 2023, 16, 353-369.	2.4	11
39	Using thermochromic ink for medical simulations. Qatar Medical Journal, 2017, 2017, 63.	0.2	9
40	Boosting Domestic Energy Efficiency Through Accurate Consumption Data Collection. , 2019, , .		9
41	Cloud Energy Micro-Moment Data Classification: A Platform Study. , 2020, , .		9
42	Enhancing Clinical Learning Through an Innovative Instructor Application for ECMO Patient Simulators. Simulation and Gaming, 2018, 49, 497-514.	1.2	8
43	Endorsing Energy Efficiency Through Accurate Appliance-Level Power Monitoring, Automation and Data Visualization. Smart Innovation, Systems and Technologies, 2022, , 603-617.	0.5	8
44	A Modular Approach for a Patient Unit for Extracorporeal Membrane Oxygenation Simulator. Membranes, 2021, 11, 424.	1.4	7
45	Reshaping Consumption Habits by Exploiting Energy-Related Micro-moment Recommendations: A Case Study. Communications in Computer and Information Science, 2021, , 65-84.	0.4	7
46	Detection ofÂAppliance-Level Abnormal Energy Consumption inÂBuildings Using Autoencoders andÂMicro-moments. Lecture Notes in Networks and Systems, 2022, , 179-193.	0.5	7
47	CouchDB Based Real-Time Wireless Communication System for Clinical Simulation. , 2018, , .		6
48	A High-Realism and Cost-Effective Training Simulator for Extracorporeal Membrane Oxygenation. IEEE Access, 2021, 9, 20893-20901.	2.6	6
49	A skills acquisition study on ECMOjo: a screen-based simulator for extracorporeal membrane oxygenation. Perfusion (United Kingdom), 2020, 35, 110-116.	0.5	5
50	The Emergence of Hybrid Edge-Cloud Computing for Energy Efficiency in Buildings. Lecture Notes in Networks and Systems, 2022, , 70-83.	0.5	5
51	Appliance-Level Monitoring withÂMicro-Moment Smart Plugs. Lecture Notes in Networks and Systems, 2021, , 942-953.	0.5	4
52	Advanced Thermochromic Ink System for Medical Blood Simulation. Membranes, 2021, 11, 520.	1.4	4
53	A Review of Human Circulatory System Simulation: Bridging the Gap between Engineering and Medicine. Membranes, 2021, 11, 744.	1.4	4
54	Appliance identification using a histogram post-processing of 2D local binary patterns for smart grid applications. , 2021, , .		2

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55	Assessing Learning Outcomes in Extracorporeal Membrane Oxygenation Simulations With a Novel Simulator and Instructor Application. IEEE Transactions on Learning Technologies, 2021, 14, 568-575.	2.2	2
56	IoT‑based mock oxygenator for extracorporeal membrane oxygenation simulator. Artificial Organs, 2022, 46, 2135-2146.	1.0	2
57	Towards the design and implementation of a human circulatory system for Extracorporeal Membrane Oxygenation simulation. Egyptian Journal of Critical Care Medicine, 2018, 6, 87-89.	0.2	1
58	Preliminary Implementation of the Next Generation Cannulation Simulator. , 2019, , .		1
59	A Thermochromic Ink Heater-cooler Color Change System for Medical Blood Simulation. , 2021, , .		1
60	Towards next generation cannulation simulators. Qatar Medical Journal, 2020, 2019, .	0.2	0
61	Corrections to â€œA High-Realism and Cost-Effective Training Simulator for Extracorporeal Membrane Oxygenationâ€. IEEE Access, 2022, 10, 64105-64105.	2.6	0