

# Abdullah Alsalemi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55  
papers

685  
citations

15  
h-index

23  
g-index

63  
ext. papers

1,142  
ext. citations

5  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
55	Blockchain-based recommender systems: Applications, challenges and future opportunities. <i>Computer Science Review</i> , <b>2022</b> , 43, 100439	8.3	7
54	An innovative edge-based Internet of Energy solution for promoting energy saving in buildings. <i>Sustainable Cities and Society</i> , <b>2022</b> , 78, 103571	10.1	5
53	The Emergence of Hybrid Edge-Cloud Computing for Energy Efficiency in Buildings. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 70-83	0.5	2
52	Endorsing Energy Efficiency Through Accurate Appliance-Level Power Monitoring, Automation and Data Visualization. <i>Smart Innovation, Systems and Technologies</i> , <b>2022</b> , 603-617	0.5	2
51	Smart fusion of sensor data and human feedback for personalized energy-saving recommendations. <i>Applied Energy</i> , <b>2022</b> , 305, 117775	10.7	2
50	Detection of Appliance-Level Abnormal Energy Consumption in Buildings Using Autoencoders and Micro-moments. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 179-193	0.5	2
49	Intelligent Edge-Based Recommender System for Internet of Energy Applications. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-10	4.3	5
48	Assessing Learning Outcomes in Extracorporeal Membrane Oxygenation Simulations With a Novel Simulator and Instructor Application. <i>IEEE Transactions on Learning Technologies</i> , <b>2021</b> , 14, 568-575	4	1
47	Techno-economic assessment of building energy efficiency systems using behavioral change: A case study of an edge-based micro-moments solution. <i>Journal of Cleaner Production</i> , <b>2021</b> , 331, 129786	10.3	4
46	On the Applicability of 2D Local Binary Patterns for Identifying Electrical Appliances in Non-intrusive Load Monitoring. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 188-205	0.4	6
45	Improving In-Home Appliance Identification Using Fuzzy-Neighbors-Preserving Analysis Based QR-Decomposition. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 303-311	0.4	6
44	Smart power consumption abnormality detection in buildings using micromoments and improved K-nearest neighbors. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 2865-2894	8.4	13
43	Smart non-intrusive appliance identification using a novel local power histogramming descriptor with an improved k-nearest neighbors classifier. <i>Sustainable Cities and Society</i> , <b>2021</b> , 67, 102764	10.1	13
42	Artificial intelligence based anomaly detection of energy consumption in buildings: A review, current trends and new perspectives. <i>Applied Energy</i> , <b>2021</b> , 287, 116601	10.7	61
41	A Modular Approach for a Patient Unit for Extracorporeal Membrane Oxygenation Simulator. <i>Membranes</i> , <b>2021</b> , 11,	3.8	3
40	A Micro-Moment System for Domestic Energy Efficiency Analysis. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 1256-1263	4.5	4
39	The emergence of explainability of intelligent systems: Delivering explainable and personalized recommendations for energy efficiency. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 656-680	8.4	20

38	An intelligent nonintrusive load monitoring scheme based on 2D phase encoding of power signals. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 72-93	8.4	8
37	Appliance-Level Monitoring with Micro-Moment Smart Plugs. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 942-953	0.5	2
36	A High-Realism and Cost-Effective Training Simulator for Extracorporeal Membrane Oxygenation. <i>IEEE Access</i> , <b>2021</b> , 9, 20893-20901	3.5	2
35	A survey of recommender systems for energy efficiency in buildings: Principles, challenges and prospects. <i>Information Fusion</i> , <b>2021</b> , 72, 1-21	16.7	19
34	A Review of Human Circulatory System Simulation: Bridging the Gap between Engineering and Medicine. <i>Membranes</i> , <b>2021</b> , 11,	3.8	1
33	Smart Sensing and End-User Behavioral Change in Residential Buildings: An Edge Internet of Energy Perspective. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	3
32	Reshaping Consumption Habits by Exploiting Energy-Related Micro-moment Recommendations: A Case Study. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 65-84	0.3	4
31	REHAB-C: Recommendations for Energy HABits Change. <i>Future Generation Computer Systems</i> , <b>2020</b> , 112, 394-407	7.5	21
30	A model for predicting room occupancy based on motion sensor data <b>2020</b> ,		9
29	Data fusion strategies for energy efficiency in buildings: Overview, challenges and novel orientations. <i>Information Fusion</i> , <b>2020</b> , 64, 99-120	16.7	24
28	Achieving Domestic Energy Efficiency Using Micro-Moments and Intelligent Recommendations. <i>IEEE Access</i> , <b>2020</b> , 8, 15047-15055	3.5	29
27	Robust event-based non-intrusive appliance recognition using multi-scale wavelet packet tree and ensemble bagging tree. <i>Applied Energy</i> , <b>2020</b> , 267, 114877	10.7	37
26	Energy Data Visualizations on Smartphones for Triggering Behavioral Change: Novel Vs. Conventional <b>2020</b> ,		6
25	Real-time personalised energy saving recommendations <b>2020</b> ,		8
24	Cloud Energy Micro-Moment Data Classification: A Platform Study <b>2020</b> ,		4
23	Towards next generation cannulation simulators. <i>Qatar Medical Journal</i> , <b>2020</b> , 2019,	0.5	78
22	Smart Energy Usage and Visualization Based on Micro-moments. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 557-566	0.4	10
21	A Novel Approach for Detecting Anomalous Energy Consumption Based on Micro-Moments and Deep Neural Networks. <i>Cognitive Computation</i> , <b>2020</b> , 12, 1381-1401	4.4	25

20	Effective non-intrusive load monitoring of buildings based on a novel multi-descriptor fusion with dimensionality reduction. <i>Applied Energy</i> , <b>2020</b> , 279, 115872	10.7	16
19	Building power consumption datasets: Survey, taxonomy and future directions. <i>Energy and Buildings</i> , <b>2020</b> , 227, 110404	7	27
18	Data Analytics, Automations, and Micro-Moment Based Recommendations for Energy Efficiency <b>2020</b> ,		8
17	A skills acquisition study on ECMOjo: a screen-based simulator for extracorporeal membrane oxygenation. <i>Perfusion (United Kingdom)</i> , <b>2020</b> , 35, 110-116	1.9	3
16	Endorsing domestic energy saving behavior using micro-moment classification. <i>Applied Energy</i> , <b>2019</b> , 250, 1302-1311	10.7	23
15	The Role of Micro-Moments: A Survey of Habitual Behavior Change and Recommender Systems for Energy Saving. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 3376-3387	4.3	33
14	¶Want to ... Change¶Micro-moment based Recommendations can Change Users¶Energy Habits <b>2019</b> ,		17
13	Preliminary Implementation of the Next Generation Cannulation Simulator <b>2019</b> ,		1
12	Boosting Domestic Energy Efficiency Through Accurate Consumption Data Collection <b>2019</b> ,		6
11	Using thermochromism to simulate blood oxygenation in extracorporeal membrane oxygenation. <i>Perfusion (United Kingdom)</i> , <b>2019</b> , 34, 106-115	1.9	8
10	Extracorporeal membrane oxygenation simulation-based training: methods, drawbacks and a novel solution. <i>Perfusion (United Kingdom)</i> , <b>2019</b> , 34, 183-194	1.9	9
9	Revolutionizing ECMO simulation with affordable yet high-Fidelity technology. <i>American Journal of Emergency Medicine</i> , <b>2018</b> , 36, 1310-1312	2.9	14
8	Towards the design and implementation of a human circulatory system for Extracorporeal Membrane Oxygenation simulation. <i>Egyptian Journal of Critical Care Medicine</i> , <b>2018</b> , 6, 87-89	0	0
7	<b>2018</b> ,		5
6	Enhancing Clinical Learning Through an Innovative Instructor Application for ECMO Patient Simulators. <i>Simulation and Gaming</i> , <b>2018</b> , 49, 497-514	1.9	5
5	Addressing the challenges of ECMO simulation. <i>Perfusion (United Kingdom)</i> , <b>2018</b> , 33, 568-576	1.9	19
4	Design and implementation of a modular ECMO simulator. <i>Qatar Medical Journal</i> , <b>2017</b> , 2017, 62	0.5	10
3	Using thermochromic ink for medical simulations. <i>Qatar Medical Journal</i> , <b>2017</b> , 2017, 63	0.5	9

2	Real-Time Communication Network Using Firebase Cloud IoT Platform for ECMO Simulation <b>2017,</b>	14
1	<b>2017,</b>	8