

List of Publications by Citations

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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.

78 papers	893 citations	17 h-index	26 g-index
92 ext. papers	1,381 ext. citations	4.4 avg, IF	5.22 L-index

#	Paper	IF	Citations
78	Towards next generation cannulation simulators. <i>Qatar Medical Journal</i> , 2020 , 2019,	0.5	78
77	Artificial intelligence based anomaly detection of energy consumption in buildings: A review, current trends and new perspectives. <i>Applied Energy</i> , 2021 , 287, 116601	10.7	61
76	MLP Neural Network Based Gas Classification System on Zynq SoC. <i>IEEE Access</i> , 2016 , 4, 8138-8146	3.5	50
75	Speaker identification using multimodal neural networks and wavelet analysis. <i>IET Biometrics</i> , 2015 , 4, 18-28	2.9	38
74	Robust event-based non-intrusive appliance recognition using multi-scale wavelet packet tree and ensemble bagging tree. <i>Applied Energy</i> , 2020 , 267, 114877	10.7	37
73	System-on-Chip Solution for Patients Biometric: A Compressive Sensing-Based Approach. <i>IEEE Sensors Journal</i> , 2018 , 18, 9629-9639	4	37
72	The Role of Micro-Moments: A Survey of Habitual Behavior Change and Recommender Systems for Energy Saving. <i>IEEE Systems Journal</i> , 2019 , 13, 3376-3387	4.3	33
71	Compressive Sensing-Based IoT Applications: A Review. <i>Journal of Sensor and Actuator Networks</i> , 2018 , 7, 45	3.8	31
70	Empowering Technology Enabled Care Using IoT and Smart Devices: A Review. <i>IEEE Sensors Journal</i> , 2018 , 18, 1790-1809	4	30
69	Achieving Domestic Energy Efficiency Using Micro-Moments and Intelligent Recommendations. <i>IEEE Access</i> , 2020 , 8, 15047-15055	3.5	29
68	A Novel Approach for Detecting Anomalous Energy Consumption Based on Micro-Moments and Deep Neural Networks. <i>Cognitive Computation</i> , 2020 , 12, 1381-1401	4.4	25
67	Data fusion strategies for energy efficiency in buildings: Overview, challenges and novel orientations. <i>Information Fusion</i> , 2020 , 64, 99-120	16.7	24
66	Endorsing domestic energy saving behavior using micro-moment classification. <i>Applied Energy</i> , 2019 , 250, 1302-1311	10.7	23
65	REHAB-C: Recommendations for Energy HABits Change. <i>Future Generation Computer Systems</i> , 2020 , 112, 394-407	7.5	21
64	Real-time ECG monitoring using compressive sensing on a heterogeneous multicore edge-device. <i>Microprocessors and Microsystems</i> , 2020 , 72, 102839	2.4	20
63	The emergence of explainability of intelligent systems: Delivering explainable and personalized recommendations for energy efficiency. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 656-680	8.4	20
62	Want to ... Change Micro-moment based Recommendations can Change Users Energy Habits 2019 ,		17

61	Effective non-intrusive load monitoring of buildings based on a novel multi-descriptor fusion with dimensionality reduction. <i>Applied Energy</i> , 2020 , 279, 115872	10.7	16
60	Real-Time Communication Network Using Firebase Cloud IoT Platform for ECMO Simulation 2017 ,		14
59	Smart power consumption abnormality detection in buildings using micromoments and improved K-nearest neighbors. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 2865-2894	8.4	13
58	Text-Independent Speaker Identification Using Vowel Formants. <i>Journal of Signal Processing Systems</i> , 2016 , 82, 345-356	1.4	12
57	Quality of experience evaluation of H.265/MPEG-HEVC and VP9 comparison efficiency 2014 ,		12
56	. <i>IEEE Sensors Journal</i> , 2018 , 18, 4633-4642	4	11
55	Smart Energy Usage and Visualization Based on Micro-moments. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 557-566	0.4	10
54	A model for predicting room occupancy based on motion sensor data 2020 ,		9
53	Extracorporeal membrane oxygenation simulation-based training: methods, drawbacks and a novel solution. <i>Perfusion (United Kingdom)</i> , 2019 , 34, 183-194	1.9	9
52	Real-time automated image segmentation technique for cerebral aneurysm on reconfigurable system-on-chip. <i>Journal of Computational Science</i> , 2018 , 27, 35-45	3.4	8
51	Real-time personalised energy saving recommendations 2020 ,		8
50	Data Analytics, Automations, and Micro-Moment Based Recommendations for Energy Efficiency 2020 ,		8
49	Using thermochromism to simulate blood oxygenation in extracorporeal membrane oxygenation. <i>Perfusion (United Kingdom)</i> , 2019 , 34, 106-115	1.9	8
48	An intelligent nonintrusive load monitoring scheme based on 2D phase encoding of power signals. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 72-93	8.4	8
47	MR Image-Based Attenuation Correction of Brain PET Imaging: Review of Literature on Machine Learning Approaches for Segmentation. <i>Journal of Digital Imaging</i> , 2020 , 33, 1224-1241	5.3	7
46	Blockchain-based recommender systems: Applications, challenges and future opportunities. <i>Computer Science Review</i> , 2022 , 43, 100439	8.3	7
45	Secure compressive sensing for ECG monitoring. <i>Computers and Security</i> , 2020 , 88, 101649	4.9	7
44	Zynq SoC based acceleration of the lattice Boltzmann method. <i>Concurrency Computation Practice and Experience</i> , 2019 , 31, e5184	1.4	6

43	An Adaptive Joint Sparsity Recovery for Compressive Sensing Based EEG System. <i>Wireless Communications and Mobile Computing</i> , 2017 , 2017, 1-10	1.9	6
42	IoT Based Compressive Sensing for ECG Monitoring 2017 ,		6
41	Throughput, latency and cost comparisons of microcontroller-based implementations of wireless sensor network (WSN) in high jump sports 2017 ,		6
40	CS-based fall detection for connected health applications 2017 ,		6
39	Energy Data Visualizations on Smartphones for Triggering Behavioral Change: Novel Vs. Conventional 2020 ,		6
38	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> , 2021 , 188-205	0.4	6
37	Improving In-Home Appliance Identification Using Fuzzy-Neighbors-Preserving Analysis Based QR-Decomposition. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 303-311	0.4	6
36	Boosting Domestic Energy Efficiency Through Accurate Consumption Data Collection 2019 ,		6
35	EPC Gen-2 UHF RFID tags with low-power CMOS temperature sensor suitable for gas applications 2016 ,		5
34	Intelligent Edge-Based Recommender System for Internet of Energy Applications. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3	5
33	The Accuracy and Efficacy of Real-Time Compressed ECG Signal Reconstruction on a Heterogeneous Multicore Edge-Device 2018 ,		5
32	2020 ,		4
31	An Accurate Ensemble Classifier for Medical Volume Analysis: Phantom and Clinical PET Study. <i>IEEE Access</i> , 2020 , 8, 37482-37494	3.5	4
30	IoT Approaches for Distributed Computing. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-2	1.9	4
29	Joint sparsity recovery for compressive sensing based EEG system 2017 ,		4
28	Cloud Energy Micro-Moment Data Classification: A Platform Study 2020 ,		4
27	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> , 2021 , 331, 129786	10.3	4
26	IoT-Based Fall and ECG Monitoring System: Wireless Communication System Based Firebase Realtime Database 2019 ,		4

25	A Micro-Moment System for Domestic Energy Efficiency Analysis. <i>IEEE Systems Journal</i> , 2021 , 15, 1256-1263	4.5	4
24	Reshaping Consumption Habits by Exploiting Energy-Related Micro-moment Recommendations: A Case Study. <i>Communications in Computer and Information Science</i> , 2021 , 65-84	0.3	4
23	Inequality Indexes as Sparsity Measures Applied to Ventricular Ectopic Beats Detection and its Efficient Hardware Implementation. <i>IEEE Access</i> , 2018 , 6, 9464-9472	3.5	3
22	A novel gateway-based solution for remote elderly monitoring. <i>Journal of Biomedical Informatics</i> , 2020 , 109, 103521	10.2	3
21	A skills acquisition study on ECMOJo: a screen-based simulator for extracorporeal membrane oxygenation. <i>Perfusion (United Kingdom)</i> , 2020 , 35, 110-116	1.9	3
20	Smart Sensing and End-User Behavioral Change in Residential Buildings: An Edge Internet of Energy Perspective. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	3
19	High Level Synthesis Based E-Nose System for Gas Applications 2016 ,		2
18	HD number plate localization and character segmentation on the Zynq heterogeneous SoC. <i>Journal of Real-Time Image Processing</i> , 2019 , 16, 2351-2365	1.9	2
17	Appliance-Level Monitoring with Micro-Moment Smart Plugs. <i>Lecture Notes in Networks and Systems</i> , 2021 , 942-953	0.5	2
16	Guest Editorial Special Issue on Real-Time Data Processing for Internet of Things. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 3487-3490	10.7	2
15	The Emergence of Hybrid Edge-Cloud Computing for Energy Efficiency in Buildings. <i>Lecture Notes in Networks and Systems</i> , 2022 , 70-83	0.5	2
14	Endorsing Energy Efficiency Through Accurate Appliance-Level Power Monitoring, Automation and Data Visualization. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 603-617	0.5	2
13	Smart fusion of sensor data and human feedback for personalized energy-saving recommendations. <i>Applied Energy</i> , 2022 , 305, 117775	10.7	2
12	Detection of Appliance-Level Abnormal Energy Consumption in Buildings Using Autoencoders and Micro-moments. <i>Lecture Notes in Networks and Systems</i> , 2022 , 179-193	0.5	2
11	An IoT-Based Framework for Elderly Remote Monitoring 2019 ,		1
10	An intelligent sensing system tor healthcare applications using real-time EMG and gaze fusion 2015 ,		1
9	Efficient analysis of DWT thresholding algorithm for medical image de-noising 2012 ,		1
8	Point-Denoise: Unsupervised outlier detection for 3D point clouds enhancement. <i>Multimedia Tools and Applications</i> , 2021 , 80, 28161-28177	2.5	1

7	Preliminary Implementation of the Next Generation Cannulation Simulator 2019 ,		1
6	An IoT Reconfigurable SoC Platform for Computer Vision Applications 2019 ,		1
5	DASSI: differential architecture search for splice identification from DNA sequences. <i>BioData Mining</i> , 2021 , 14, 15	4.3	1
4	Implementation of Advanced Encryption Standard (AES) for Wireless Image Transmission using LabVIEW 2018 ,		1
3	Design and Evaluation of Vivado HLS-Based Compressive Sensing for ECG Signal Analysis 2018 ,		1
2	Incorporating patient concerns into design requirements for IoMT-based systems: The fall detection case study. <i>Health Informatics Journal</i> , 2021 , 27, 1460458220982640	3	0
1	. <i>IEEE Systems Journal</i> , 2020 , 14, 1592-1601	4.3	