Abbes Amira

List of Publications by Year in Descending Order

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	Blockchain-based recommender systems: Applications, challenges and future opportunities. *Computer Science Review*, **2022**, 43, 100439	8.3	7
77	The Emergence of Hybrid Edge-Cloud Computing for Energy Efficiency in Buildings. *Lecture Notes in Networks and Systems*, **2022**, 70-83	0.5	2
76	Endorsing Energy Efficiency Through Accurate Appliance-Level Power Monitoring, Automation and Data Visualization. *Smart Innovation, Systems and Technologies*, **2022**, 603-617	0.5	2
75	Smart fusion of sensor data and human feedback for personalized energy-saving recommendations. *Applied Energy*, **2022**, 305, 117775	10.7	2
74	Detection of Appliance-Level Abnormal Energy Consumption in Buildings Using Autoencoders and Micro-moments. *Lecture Notes in Networks and Systems*, **2022**, 179-193	0.5	2
73	Intelligent Edge-Based Recommender System for Internet of Energy Applications. *IEEE Systems Journal*, **2021**, 1-10	4.3	5
72	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*, **2021**, 331, 129786	10.3	4
71	On the Applicability of 2D Local Binary Patterns for Identifying Electrical Appliances in Non-intrusive Load Monitoring. *Advances in Intelligent Systems and Computing*, **2021**, 188-205	0.4	6
70	Improving In-Home Appliance Identification Using Fuzzy-Neighbors-Preserving Analysis Based QR-Decomposition. *Advances in Intelligent Systems and Computing*, **2021**, 303-311	0.4	6
69	Smart power consumption abnormality detection in buildings using micromoments and improved K-nearest neighbors. *International Journal of Intelligent Systems*, **2021**, 36, 2865-2894	8.4	13
68	Artificial intelligence based anomaly detection of energy consumption in buildings: A review, current trends and new perspectives. *Applied Energy*, **2021**, 287, 116601	10.7	61
67	Point-Denoise: Unsupervised outlier detection for 3D point clouds enhancement. *Multimedia Tools and Applications*, **2021**, 80, 28161-28177	2.5	1
66	A Micro-Moment System for Domestic Energy Efficiency Analysis. *IEEE Systems Journal*, **2021**, 15, 1256-1263	4.3	4
65	The emergence of explainability of intelligent systems: Delivering explainable and personalized recommendations for energy efficiency. *International Journal of Intelligent Systems*, **2021**, 36, 656-680	8.4	20
64	An intelligent nonintrusive load monitoring scheme based on 2D phase encoding of power signals. *International Journal of Intelligent Systems*, **2021**, 36, 72-93	8.4	8
63	Appliance-Level Monitoring with Micro-Moment Smart Plugs. *Lecture Notes in Networks and Systems*, **2021**, 942-953	0.5	2
62	DASSI: differential architecture search for splice identification from DNA sequences. *BioData Mining*, **2021**, 14, 15	4.3	1

61	Incorporating patient concerns into design requirements for IoMT-based systems: The fall detection case study. *Health Informatics Journal*, **2021**, 27, 1460458220982640	3	0
60	Smart Sensing and End-User Behavioral Change in Residential Buildings: An Edge Internet of Energy Perspective. *IEEE Sensors Journal*, **2021**, 1-1	4	3
59	Reshaping Consumption Habits by Exploiting Energy-Related Micro-moment Recommendations: A Case Study. *Communications in Computer and Information Science*, **2021**, 65-84	0.3	4
58	**2020**,		4
57	REHAB-C: Recommendations for Energy HABits Change. *Future Generation Computer Systems*, **2020**, 112, 394-407	7.5	21
56	A model for predicting room occupancy based on motion sensor data **2020**,		9
55	*. IEEE Systems Journal*, **2020**, 14, 1592-1601	4.3	
54	Data fusion strategies for energy efficiency in buildings: Overview, challenges and novel orientations. *Information Fusion*, **2020**, 64, 99-120	16.7	24
53	MR Image-Based Attenuation Correction of Brain PET Imaging: Review of Literature on Machine Learning Approaches for Segmentation. *Journal of Digital Imaging*, **2020**, 33, 1224-1241	5.3	7
52	Achieving Domestic Energy Efficiency Using Micro-Moments and Intelligent Recommendations. *IEEE Access*, **2020**, 8, 15047-15055	3.5	29
51	An Accurate Ensemble Classifier for Medical Volume Analysis: Phantom and Clinical PET Study. *IEEE Access*, **2020**, 8, 37482-37494	3.5	4
50	Robust event-based non-intrusive appliance recognition using multi-scale wavelet packet tree and ensemble bagging tree. *Applied Energy*, **2020**, 267, 114877	10.7	37
49	Energy Data Visualizations on Smartphones for Triggering Behavioral Change: Novel Vs. Conventional **2020**,		6
48	Real-time personalised energy saving recommendations **2020**,		8
47	Cloud Energy Micro-Moment Data Classification: A Platform Study **2020**,		4
46	Towards next generation cannulation simulators. *Qatar Medical Journal*, **2020**, 2019,	0.5	78
45	Smart Energy Usage and Visualization Based on Micro-moments. *Advances in Intelligent Systems and Computing*, **2020**, 557-566	0.4	10
44	A Novel Approach for Detecting Anomalous Energy Consumption Based on Micro-Moments and Deep Neural Networks. *Cognitive Computation*, **2020**, 12, 1381-1401	4.4	25

43	Effective non-intrusive load monitoring of buildings based on a novel multi-descriptor fusion with dimensionality reduction. *Applied Energy*, **2020**, 279, 115872	10.7	16
42	A novel gateway-based solution for remote elderly monitoring. *Journal of Biomedical Informatics*, **2020**, 109, 103521	10.2	3
41	Data Analytics, Automations, and Micro-Moment Based Recommendations for Energy Efficiency **2020**,		8
40	Secure compressive sensing for ECG monitoring. *Computers and Security*, **2020**, 88, 101649	4.9	7
39	Real-time ECG monitoring using compressive sensing on a heterogeneous multicore edge-device. *Microprocessors and Microsystems*, **2020**, 72, 102839	2.4	20
38	A skills acquisition study on ECMOjo: a screen-based simulator for extracorporeal membrane oxygenation. *Perfusion (United Kingdom)*, **2020**, 35, 110-116	1.9	3
37	Endorsing domestic energy saving behavior using micro-moment classification. *Applied Energy*, **2019**, 250, 1302-1311	10.7	23
36	The Role of Micro-Moments: A Survey of Habitual Behavior Change and Recommender Systems for Energy Saving. *IEEE Systems Journal*, **2019**, 13, 3376-3387	4.3	33
35	Zynq SoC based acceleration of the lattice Boltzmann method. *Concurrency Computation Practice and Experience*, **2019**, 31, e5184	1.4	6
34	An IoT-Based Framework for Elderly Remote Monitoring **2019**,		1
33	Want to ... Change Micro-moment based Recommendations can Change Users Energy Habits **2019**,		17
32	Preliminary Implementation of the Next Generation Cannulation Simulator **2019**,		1
31	IoT-Based Fall and ECG Monitoring System: Wireless Communication System Based Firebase Realtime Database **2019**,		4
30	An IoT Reconfigurable SoC Platform for Computer Vision Applications **2019**,		1
29	Boosting Domestic Energy Efficiency Through Accurate Consumption Data Collection **2019**,		6
28	Using thermochromism to simulate blood oxygenation in extracorporeal membrane oxygenation. *Perfusion (United Kingdom)*, **2019**, 34, 106-115	1.9	8
27	Extracorporeal membrane oxygenation simulation-based training: methods, drawbacks and a novel solution. *Perfusion (United Kingdom)*, **2019**, 34, 183-194	1.9	9
26	HD number plate localization and character segmentation on the Zynq heterogeneous SoC. *Journal of Real-Time Image Processing*, **2019**, 16, 2351-2365	1.9	2

25	Inequality Indexes as Sparsity Measures Applied to Ventricular Ectopic Beats Detection and its Efficient Hardware Implementation. *IEEE Access*, **2018**, 6, 9464-9472	3.5	3
24	. *IEEE Sensors Journal*, **2018**, 18, 4633-4642	4	11
23	Empowering Technology Enabled Care Using IoT and Smart Devices: A Review. *IEEE Sensors Journal*, **2018**, 18, 1790-1809	4	30
22	IoT Approaches for Distributed Computing. *Wireless Communications and Mobile Computing*, **2018**, 2018, 1-2	1.9	4
21	Real-time automated image segmentation technique for cerebral aneurysm on reconfigurable system-on-chip. *Journal of Computational Science*, **2018**, 27, 35-45	3.4	8
20	Implementation of Advanced Encryption Standard (AES) for Wireless Image Transmission using LabVIEW **2018**,		1
19	Design and Evaluation of Vivado HLS-Based Compressive Sensing for ECG Signal Analysis **2018**,		1
18	Compressive Sensing-Based IoT Applications: A Review. *Journal of Sensor and Actuator Networks*, **2018**, 7, 45	3.8	31
17	Guest Editorial Special Issue on Real-Time Data Processing for Internet of Things. *IEEE Internet of Things Journal*, **2018**, 5, 3487-3490	10.7	2
16	The Accuracy and Efficacy of Real-Time Compressed ECG Signal Reconstruction on a Heterogeneous Multicore Edge-Device **2018**,		5
15	System-on-Chip Solution for Patients Biometric: A Compressive Sensing-Based Approach. *IEEE Sensors Journal*, **2018**, 18, 9629-9639	4	37
14	An Adaptive Joint Sparsity Recovery for Compressive Sensing Based EEG System. *Wireless Communications and Mobile Computing*, **2017**, 2017, 1-10	1.9	6
13	IoT Based Compressive Sensing for ECG Monitoring **2017**,		6
12	Real-Time Communication Network Using Firebase Cloud IoT Platform for ECMO Simulation **2017**,		14
11	Throughput, latency and cost comparisons of microcontroller-based implementations of wireless sensor network (WSN) in high jump sports **2017**,		6
10	CS-based fall detection for connected health applications **2017**,		6
9	Joint sparsity recovery for compressive sensing based EEG system **2017**,		4
8	Text-Independent Speaker Identification Using Vowel Formants. *Journal of Signal Processing Systems*, **2016**, 82, 345-356	1.4	12

7	EPC Gen-2 UHF RFID tags with low-power CMOS temperature sensor suitable for gas applications **2016**,		5
6	MLP Neural Network Based Gas Classification System on Zynq SoC. *IEEE Access*, **2016**, 4, 8138-8146	3.5	50
5	High Level Synthesis Based E-Nose System for Gas Applications **2016**,		2
4	Speaker identification using multimodal neural networks and wavelet analysis. *IET Biometrics*, **2015**, 4, 18-28	2.9	38
3	An intelligent sensing system tor healthcare applications using real-time EMG and gaze fusion **2015**,		1
2	Quality of experience evaluation of H.265/MPEG-HEVC and VP9 comparison efficiency **2014**,		12
1	Efficient analysis of DWT thresholding algorithm for medical image de-noising **2012**,		1