Rajalakshmi Pachamuthu

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.

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papers574
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#	Paper	IF	Citations
105	A low power IoT network for smart agriculture 2018,		42
104	Adaptive rule engine based IoT enabled remote health care data acquisition and smart transmission system 2014 ,		29
103	. IEEE Internet of Things Journal, 2015 , 2, 210-220	10.7	28
102	Computer Aided Abnormality Detection for Kidney on FPGA Based IoT Enabled Portable Ultrasound Imaging System. <i>Irbm</i> , 2016 , 37, 189-197	4.8	22
101	WSN based power monitoring in smart grids 2011 ,		20
100	A Secure Phase-Encrypted IEEE 802.15.4 Transceiver Design. <i>IEEE Transactions on Computers</i> , 2017 , 66, 1421-1427	2.5	16
99	Performance Analysis of CSMA/CA and PCA for Time Critical Industrial IoT Applications. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2281-2293	11.9	16
98	Novel Power Management Scheme and Effects of Constrained On-Node Storage on Performance of MAC Layer for Industrial IoT Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2146-21.	5 ^{£1.9}	14
97	Compressed sensing for different sensors: A real scenario for WSN and IoT 2016 ,		14
96	A Novel Computer-Aided Diagnosis Framework Using Deep Learning for Classification of Fatty Liver Disease in Ultrasound Imaging 2018 ,		13
95	Characterization of lens based photoacoustic imaging system. <i>Photoacoustics</i> , 2017 , 8, 37-47	9	11
94	Automated quantification of ultrasonic fatty liver texture based on curvelet transform and SVD. <i>Biocybernetics and Biomedical Engineering</i> , 2018 , 38, 145-157	5.7	10
93	Accurate and reliable 3-lead to 12-lead ECG reconstruction methodology for remote health monitoring applications 2013 ,		10
92	FPGA-Based Portable Ultrasound Scanning System with Automatic Kidney Detection. <i>Journal of Imaging</i> , 2015 , 1, 193-219	3.1	10
91	FPGA based preliminary CAD for kidney on IoT enabled portable ultrasound imaging system 2014,		10
90	Wavelength reassignment algorithms for all-optical WDM backbone networks. <i>Optical Switching and Networking</i> , 2007 , 4, 147-156	1.6	10
89	Multiview spatial compounding using lens-based photoacoustic imaging system. <i>Photoacoustics</i> , 2019 , 13, 85-94	9	9

88	Effect of relay nodes and transmit power on end-to-end delay in multi-hop wireless ad hoc networks. <i>International Journal of Space-Based and Situated Computing</i> , 2014 , 4, 26	0.3	9
87	A novel system architecture for brain controlled IoT enabled environments 2017,		9
86	2011,		9
85	Novel Light Weight Compressed Data Aggregation using sparse measurements for IoT networks. Journal of Network and Computer Applications, 2018, 121, 119-134	7.9	8
84	IoT enabled smart and secure power monitor 2017,		7
83	Saturated Throughput Analysis of IEEE 802.11ad EDCA For High Data Rate 5G-IoT Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 4774-4785	6.8	7
82	CR based WSAN for Field Area Network in Smart Grid 2013 ,		7
81	Two-sided residual refocusing for an acoustic lens-based photoacoustic imaging system. <i>Physics in Medicine and Biology</i> , 2018 , 63, 13NT03	3.8	6
80	Real Time LiDAR Point Cloud Compression and Transmission for Intelligent Transportation System 2019 ,		6
79	Accurate and reliable 3-lead to 12-lead ECG reconstruction methodology for remote health monitoring applications. <i>Irbm</i> , 2014 , 35, 341-350	4.8	6
78	Real time hardware implementable spectrum sensor for Cognitive Radio applications 2012,		6
77	Re-Routing at Critical Nodes to Enhance Performance of Wavelength Reassignment in All-Optical WDM Networks Without Wavelength Conversion. <i>Journal of Lightwave Technology</i> , 2008 , 26, 3021-3029	4	6
76	A reliable covert channel over IEEE 802.15.4 using steganography 2016 ,		6
75	A Residual Phase Noise Compensation Method for IEEE 802.15.4 Compliant Dual-Mode Receiver for Diverse Low Power IoT Applications. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3437-3447	10.7	6
74	Development of a Novel IoT-Enabled Power- Monitoring Architecture With Real-Time Data Visualization for Use in Domestic and Industrial Scenarios. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-14	5.2	6
73	Reliability and Delay Analysis of Slotted Anycast Multi-Hop Wireless Networks Targeting Dense Traffic IoT Applications. <i>IEEE Communications Letters</i> , 2015 , 19, 727-730	3.8	5
72	System Architecture for Low-Power Ubiquitously Connected Remote Health Monitoring Applications With Smart Transmission Mechanism. <i>IEEE Sensors Journal</i> , 2015 , 15, 4532-4543	4	5
71	Neural Network Based Short Term Forecasting Engine to Optimize Energy and Big Data Storage Resources of Wireless Sensor Networks 2015 ,		5

70	Deployment adviser tool for wireless sensor networks 2014 ,		5
69	Deep scattering convolution network based features for ultrasonic fatty liver tissue characterization. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017,	0.9	5
68	Context predictor based sparse sensing technique and smart transmission architecture for IoT enabled remote health monitoring applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference of the IEEE Engineering International Conference On IEEE </i>	0.9	5
67	International Conference, 2014, 2014, 4151-4 Load balanced routing to enhance the performance of optical backbone networks 2008,		5
66	Routing wavelength and time-slot reassignment algorithms for TDM based optical WDM networks. <i>Computer Communications</i> , 2007 , 30, 3491-3497	5.1	5
65	Reconfigurable dual mode IEEE 802.15.4 digital baseband receiver for diverse IoT applications 2016 ,		5
64	Classification of Nonalcoholic Fatty Liver Texture Using Convolution Neural Networks 2018,		5
63	A Novel Low-Complexity Compressed Data Aggregation Method for Energy-Constrained IoT Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 717-730	4	4
62	A Low Power Minimal Error IEEE 802.15.4 Transceiver for Heart Monitoring in IoT Applications. <i>Wireless Personal Communications</i> , 2018 , 100, 611-629	1.9	4
61	FPGA based ultrasound backend system with image enhancement technique 2014 ,		4
60	Centroid based 3D localization technique using RSSI with a mobile robot 2014 ,		4
59	Context aware building energy management system with heterogeneous wireless network architecture 2013 ,		4
58	Affordable low complexity heart/brain monitoring methodology for remote health care. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 5082-5	0.9	4
57	Effect of Relay Nodes on End-to-End Delay in Multi-hop Wireless Ad-hoc Networks 2013,		4
56	Routing Wavelength and Timeslot Reassignment Algorithms for TDM based Optical WDM Networks - Multi rate traffic demands 2006 ,		4
55	Smartphone based automatic abnormality detection of kidney in ultrasound images 2016,		4
54	A Novel Classification for EEG Based Four Class Motor Imagery Using Kullback-Leibler Regularized Riemannian Manifold 2018 ,		4
53	Energy efficient wireless sensor networks utilizing adaptive dictionary in compressed sensing 2018,		4

52	Fast Object Segmentation Pipeline for Point Clouds Using Robot Operating System 2019,		3
51	Analytical model of adaptive CSMA-CA MAC for reliable and timely clustered wireless multi-hop communication 2014 ,		3
50	Mobile phone based acoustic localization for wireless sensor networks 2015,		3
49	Automatic organ validation of b-mode ultrasound images for transmission to cloud 2014 ,		3
48	Novel sampling algorithm for Levy-walk based mobile phone sensing 2014,		3
47	Hardware-software co-design of AES on FPGA 2012 ,		3
46	Analytical Performance Computation for all Optical Networks with Wavelength Conversion. <i>IETE Journal of Research</i> , 2008 , 54, 31-38	0.9	3
45	LiDAR-INS/GNSS-Based Real-Time Ground Removal, Segmentation, and Georeferencing Framework for Smart Transportation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	3
44	Modeling and Analysis of IEEE 802.15.4 Multi-hop Networks for IoT Applications. <i>Wireless Personal Communications</i> , 2018 , 100, 429-448	1.9	3
43	Mobile phone based acoustic localization using Doppler shift for wireless sensor networks 2016,		3
42	Implementation of diagnostically driven compression algorithms via WebRTC for IoT enabled tele-sonography 2016 ,		3
41	A comparison of transmission line voltage stability indices 2016 ,		3
40	Multi-modal framework for automatic detection of diagnostically important regions in nonalcoholic fatty liver ultrasonic images. <i>Biocybernetics and Biomedical Engineering</i> , 2018 , 38, 586-601	5.7	2
39	Duration of stay based weighted scheduling framework for mobile phone sensor data collection in opportunistic crowd sensing. <i>Peer-to-Peer Networking and Applications</i> , 2016 , 9, 721-730	3.1	2
38	WebRTC based invariant scattering convolution network for automated validation of ultrasonic videos for IoT enabled tele-sonography 2018 ,		2
37	Emotion Detection IoT enabled Edge-node for Citizen Security 2019 ,		2
36	Fast Region of Interest detection for fetal genital organs in B-mode ultrasound images 2014,		2
35	Random node sampling approach for energy efficient data gathering in wireless sensor networks 2017 ,		2

34	Subjective liver ultrasound video quality assessment of internet based videophone services for real-time telesonography 2017 ,		2
33	Compression techniques for IoT enabled handheld ultrasound imaging system 2014,		2
32	Low complex, programmable FPGA based 8-channel ultrasound transmitter for medical imaging researches 2014 ,		2
31	An Analytical Model for Wavelength-Convertible Optical Networks 2007,		2
30	Analytical Tool to Achieve Wavelength Conversion Performance in No Wavelength Conversion Optical WDM Networks 2007 ,		2
29	Discrimination of filled and unfilled grains of rice panicles using thermal and RGB images. <i>Journal of Cereal Science</i> , 2020 , 95, 103037	3.8	2
28	Geo-referencing system for locating objects globally in LiDAR point cloud 2020 ,		2
27	Deep-Learning-Based Multispectral Image Reconstruction from Single Natural Color RGB ImageEnhancing UAV-Based Phenotyping. <i>Remote Sensing</i> , 2022 , 14, 1272	5	2
26	Smartphone based automatic organ validation in ultrasound video. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 4289-4292	0.9	1
25	LoRa-based Alert System for Public-safety 2019 ,		1
24	Smartphone Based Acoustic Navigation Tool for IoT Networks. <i>Wireless Personal Communications</i> , 2019 , 108, 1547-1569	1.9	1
23	Integrated 16-Channel Transmit and Receive Beamforming ASIC for Ultrasound Imaging 2015,		1
22	Sparseland model for speckle suppression of B-mode ultrasound images 2015,		1
21	Enhanced LoRa Data Rate through PATCH 2020 ,		1
20	Performance analysis of IEEE 802.15.4 MAC layer: Prospect for multi-hop networks 2016 ,		1
19	A Real-Time Health 4.0 Framework with Novel Feature Extraction and Classification for Brain-Controlled IoT-Enabled Environments. <i>Neural Computation</i> , 2019 , 31, 1915-1944	2.9	1
18	A Novel Feature Extraction Framework for Four Class Motor Imagery Classification using Log Determinant Regularized Riemannian Manifold. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual	0.9	1
17	A low complexity on-chip ECG data compression methodology targeting remote health-care applications. Annual International Conference of the IEEE Engineering in Medicine and Biology Society	0.9	1

LIST OF PUBLICATIONS

16	Performance analysis of hybrid multiple radio IoT architecture for ubiquitous connectivity 2015,		1
15	Portable ultrasound scanner for remote diagnosis 2015 ,		1
14	Multi-level classification: A generic classification method for medical datasets 2015,		1
13	Compressive sensing ultrasound beamformed imaging in time and frequency domain 2015,		1
12	3D localization technique with mobile robot for improving operability of remote-control devices 2015 ,		1
11	Real Time Power Capping with Smart Circuit Breaker to Maximize Power Utilization of Local Generator 2015 ,		1
10	Distributed compressed sensing for photo-acoustic imaging 2015 ,		1
9	Design of feature extraction circuit for speech recognition applications 2012,		1
8	Region of Interest and Car Detection using LiDAR data for Advanced Traffic Management System 2020 ,		1
7	CIG based Stress Identification Method for Maize Crop using UAV based Remote Sensing 2020 ,		1
6	A 1.5mA, 2.4GHz ZigBee/BLE QLMVF Receiver Frond End with Split TCAs in 180nm CMOS 2016 ,		1
5	A deep learning based approach for classification of abdominal organs using ultrasound images. <i>Biocybernetics and Biomedical Engineering</i> , 2021 , 41, 779-791	5.7	0
4	CNN based framework for representative detection of liver images for CAD and tele-sonography applications. <i>CSI Transactions on ICT</i> , 2019 , 7, 131-135	0.4	
3	On building a smarter ecosystem using the internet of intelligent things: progress and future challenges. <i>CSI Transactions on ICT</i> , 2019 , 7, 243-250	0.4	
2	A reconfigurable medically cohesive biomedical front-end with IADC in 0.18IIm CMOS. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 833-6	0.9	
1	Compact and Programmable Ultrasound Front-End Processing Module for Research Activities. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 921-924	0.9	