Thinagaran Perumal

List of Publications by Year
in descending order

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71	882	759233	610901
papers	citations	12 h-index	24 g-index

73	73	73	791
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Internet of Things (IoT)â€based aquaculture: An overview of IoT application on water quality monitoring. Reviews in Aquaculture, 2022, 14, 979-992.	9.0	28
2	Aerial Imagery Paddy Seedlings Inspection Using Deep Learning. Remote Sensing, 2022, 14, 274.	4.0	11
3	Adaptive Profiling Model for Multiple Residents Activity Recognition Analysis Using Spatio-temporal Information in Smart Home. Lecture Notes in Electrical Engineering, 2022, , 789-802.	0.4	1
4	Internet of Things (IoT) Based Activity Recognition Strategies in Smart Homes: A Review. IEEE Sensors Journal, 2022, 22, 8327-8336.	4.7	26
5	Sequential neural networks for multi-resident activity recognition in ambient sensing smart homes. Applied Intelligence, 2021, 51, 6014-6028.	5.3	13
6	A Novel PR Controller with Improved Performance for Single-Phase UPS Inverter. , 2021, , .		1
7	The Impact of Memory-Efficient Bots on IoT-WSN Botnet Propagation. Wireless Personal Communications, 2021, 119, 2093-2105.	2.7	3
8	CoAP-Based Lightweight Interoperability Semantic Sensor and Actuator Ontology for IoT Ecosystem. International Journal of Ambient Computing and Intelligence, 2021, 12, 92-110.	1.1	0
9	Making Buildings Smarter and Energy-Efficientâ€"Using the Internet of Things Platform. IEEE Consumer Electronics Magazine, 2021, 10, 34-41.	2.3	4
10	Human Activity Recognition With Smartphone and Wearable Sensors Using Deep Learning Techniques: A Review. IEEE Sensors Journal, 2021, 21, 13029-13040.	4.7	182
11	Time dependent network resource optimization in cyberâ€"physical systems using game theory. Computer Communications, 2021, 176, 1-12.	5.1	6
12	Workshop on Consumer Technologies-Invent the Future Today [Society News]. IEEE Consumer Electronics Magazine, 2019, 8, 9-72.	2.3	0
13	The Malaysia Project Competition on the IoT for Humanitarian Causes [Society News]. IEEE Consumer Electronics Magazine, 2019, 8, 8-8.	2.3	0
14	Real Time Human Fall Detection Using Accelerometer and IoT. Lecture Notes in Electrical Engineering, 2019, , 635-639.	0.4	1
15	Semantic Interoperability Test Method for Data Schema Comparison with Constrained Application Protocol. , 2019, , .		0
16	Random k-Labelsets Method for Human Activity Recognition with Multi-Sensor Data in Smart Home. , 2019, , .		8
17	FPGA Implementation of Handwritten Number Recognition using Artificial Neural Network. , 2019, , .		1
18	Multi-Resident Activity Recognition using Multi-Label Classification in Ambient Sensing Smart Homes. , 2019, , .		3

#	Article	IF	Citations
19	Binary Relevance Model for Activity Recognition in Home Environment using Ambient Sensors. , 2019, , .		5
20	Device Verification and Compatibility for Heterogeneous Semantic IoT Systems. , 2019, , .		1
21	IoT Device Management using Semantics for Distinguishing Device Compatibility. , 2019, , .		0
22	Consumer-Centric Internet of Things: Driving the Digital Transformations [Society News]. IEEE Consumer Electronics Magazine, 2018, 7, 13-13.	2.3	0
23	A Survey of Decision-Theoretic Models for Cognitive Internet of Things (CIoT). IEEE Access, 2018, 6, 22489-22512.	4.2	25
24	Fuzzy based prediction schema framework for IoT based indoor environmental monitoring. , 2018, , .		2
25	Two-stage feature selection using ranking self-adaptive differential evolution algorithm for recognition of acceleration activity. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, .	1.4	0
26	Fall Detection Framework for Smart Home. , 2018, , .		4
27	Enabling Indoor Localization With Internet of Things (IoT). , 2018, , .		8
28	Reducing the Severity of Black Hole and DDoS Attacks in MANETs by Modifying AODV Protocol using MAC Authentication and Symmetric Encryption. , 2018, , .		0
29	Resolution Mechanism Model for Heterogeneous Systems in Smart Home Environment. , 2018, , .		0
30	Multi Label Classification on Multi Resident in Smart Home Using Classifier Chains. Advanced Science Letters, 2018, 24, 1316-1319.	0.2	9
31	Hybrid Relief-f Differential Evolution Feature Selection for Accelerometer Actions. Advanced Science Letters, 2018, 24, 1168-1171.	0.2	0
32	Yamaguchi University Delegation Visits the CE Society Malaysia Chapter [Society News]. IEEE Consumer Electronics Magazine, 2017, 6, 8-9.	2.3	0
33	Modeling activity recognition of multi resident using label combination of multi label classification in smart home. AIP Conference Proceedings, 2017, , .	0.4	9
34	Recognizing stationary and locomotion activities using combinational of spectral analysis with statistical descriptors features. AIP Conference Proceedings, 2017, , .	0.4	0
35	Sustainability in intelligent building environments using weighted priority scheduling algorithm. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 689-705.	1.4	5
36	Conflict resolution using enhanced label combination method for complex activity recognition in smart home environment. , 2017, , .		5

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37	IoT based activity recognition among smart home residents. , 2017, , .		14
38	Elgar framework: Context-aware service orchestration with data Petri net. , 2017, , .		1
39	Detecting critical nodes for network vulnerability assessment under cascading failures. , 2017, , .		0
40	Mobile charging and data gathering in multiple sink Wireless Sensor Networks: How and why. , 2017, , .		4
41	Single classifier, OvO, OvA and RCC multiclass classification method in handheld based smartphone gait identification. AIP Conference Proceedings, 2017, , .	0.4	6
42	Monitoring daily fitness activity using accelerometer sensor fusion. , 2017, , .		10
43	Fuzzy logic predictive method for indoor environment parametric dataset. , 2017, , .		1
44	Enhancing indoor positioning service for location based Internet of Things (IoT): A source selecting approach with error compensation. , 2017, , .		2
45	Multi-resident activity recognition using label combination approach in smart home environment. , 2017, , .		8
46	Recognizing Complex Human Activities using Hybrid Feature Selections based on an Accelerometer Sensor. International Journal of Technology, 2017, 8, 968.	0.8	3
47	Feature Selection Optimization using Hybrid Relief-f with Self-adaptive Differential Evolution. International Journal of Intelligent Engineering and Systems, 2017, 10, 21-29.	0.6	25
48	Gait Identification using Smartphone Handheld Placement with Linear Interpolation Factor, Single Magnitude and One-vs-One Classifier Mapping. International Journal of Intelligent Engineering and Systems, 2017, 10, 70-80.	0.6	1
49	Gait identification using One-vs-one classifier model. , 2016, , .		1
50	Rule-based conflict resolution framework for Internet of Things device management in smart home environment. , 2016, , .		7
51	Improving Anomalous Rare Attack Detection Rate for Intrusion Detection System Using Support Vector Machine and Genetic Programming. Neural Processing Letters, 2016, 44, 279-290.	3.2	31
52	One-Day Workshop at CE Malaysia Chapter: Embedded systems and Internet of Things. [Society News]. IEEE Consumer Electronics Magazine, 2015, 4, 14-15.	2.3	0
53	Membership Drive by CESoc Malaysia [Society News]. IEEE Consumer Electronics Magazine, 2015, 4, 16-17.	2.3	0
54	Internet of Things (IoT) enabled water monitoring system. , 2015, , .		103

#	Article	IF	Citations
55	IoT device management framework for smart home scenarios. , 2015, , .		30
56	Activity recognition based on accelerometer sensor using combinational classifiers. , 2015, , .		25
57	Naive Bayesian decision model for the interoperability of heterogeneous systems in an intelligent building environment. Automation in Construction, 2015, 54, 83-92.	9.8	10
58	A new classification model for a class imbalanced data set using genetic programming and support vector machines: case study for wilt disease classification. Remote Sensing Letters, 2015, 6, 568-577.	1.4	13
59	Proactive architecture for Internet of Things (IoTs) management in smart homes. , 2014, , .		16
60	A Great Year for IEEE CE Malaysia [Society News]. IEEE Consumer Electronics Magazine, 2014, 3, 26-27.	2.3	0
61	HMM-Based Decision Model for Smart Home Environment. International Journal of Smart Home, 2014, 8, 129-138.	0.4	6
62	SOA-Based Framework for Home and Building Automation Systems (HBAS). International Journal of Smart Home, 2014, 8, 197-206.	0.4	3
63	IP Based Network Public Address for Intelligent Building Environment. International Journal of Smart Home, 2014, 8, 77-86.	0.4	0
64	ECA-based interoperability framework for intelligent building. Automation in Construction, 2013, 31, 274-280.	9.8	25
65	Interoperability framework for smart home systems. IEEE Transactions on Consumer Electronics, 2011, 57, 1607-1611.	3.6	43
66	Middleware for heterogeneous subsystems interoperability in intelligent buildings. Automation in Construction, 2010, 19, 160-168.	9.8	26
67	A rule-based framework for heterogeneous subsystems management in smart home environment. IEEE Transactions on Consumer Electronics, 2009, 55, 1208-1213.	3.6	46
68	Design and implementation of SOAP-based residential management for smart home systems. IEEE Transactions on Consumer Electronics, 2008, 54, 453-459.	3.6	32
69	Interoperability among Heterogeneous Systems in Smart Home Environment. , 2008, , .		22
70	MULTI-LABEL CLASSIFICATION FOR PHYSICAL ACTIVITY RECOGNITION FROM VARIOUS ACCELEROMETER SENSOR POSITIONS. Journal of Information and Communication Technology, 0, , .	0.4	6
71	An Epidemic Based Model for the Predictions of OOFI in an IoT Platform. SSRG International Journal of Engineering Trends and Technology, 0, , 52-56.	0.5	0