

Thinagaran Perumal

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

882
citations

759233

12
h-index

610901

24
g-index

73
all docs

73
docs citations

73
times ranked

791
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Activity Recognition With Smartphone and Wearable Sensors Using Deep Learning Techniques: A Review. IEEE Sensors Journal, 2021, 21, 13029-13040.	4.7	182
2	Internet of Things (IoT) enabled water monitoring system. , 2015, , .		103
3	A rule-based framework for heterogeneous subsystems management in smart home environment. IEEE Transactions on Consumer Electronics, 2009, 55, 1208-1213.	3.6	46
4	Interoperability framework for smart home systems. IEEE Transactions on Consumer Electronics, 2011, 57, 1607-1611.	3.6	43
5	Design and implementation of SOAP-based residential management for smart home systems. IEEE Transactions on Consumer Electronics, 2008, 54, 453-459.	3.6	32
6	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
7	IoT device management framework for smart home scenarios. , 2015, , .		30
8	Internet of Things (IoT)-based aquaculture: An overview of IoT application on water quality monitoring. Reviews in Aquaculture, 2022, 14, 979-992.	9.0	28
9	Middleware for heterogeneous subsystems interoperability in intelligent buildings. Automation in Construction, 2010, 19, 160-168.	9.8	26
10	Internet of Things (IoT) Based Activity Recognition Strategies in Smart Homes: A Review. IEEE Sensors Journal, 2022, 22, 8327-8336.	4.7	26
11	ECA-based interoperability framework for intelligent building. Automation in Construction, 2013, 31, 274-280.	9.8	25
12	Activity recognition based on accelerometer sensor using combinational classifiers. , 2015, , .		25
13	A Survey of Decision-Theoretic Models for Cognitive Internet of Things (CIoT). IEEE Access, 2018, 6, 22489-22512.	4.2	25
14	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
15	Interoperability among Heterogeneous Systems in Smart Home Environment. , 2008, , .		22
16	Proactive architecture for Internet of Things (IoT) management in smart homes. , 2014, , .		16
17	IoT based activity recognition among smart home residents. , 2017, , .		14
18	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

#	ARTICLE	IF	CITATIONS
19	Sequential neural networks for multi-resident activity recognition in ambient sensing smart homes. <i>Applied Intelligence</i> , 2021, 51, 6014-6028.	5.3	13
20	Aerial Imagery Paddy Seedlings Inspection Using Deep Learning. <i>Remote Sensing</i> , 2022, 14, 274.	4.0	11
21	Naive Bayesian decision model for the interoperability of heterogeneous systems in an intelligent building environment. <i>Automation in Construction</i> , 2015, 54, 83-92.	9.8	10
22	Monitoring daily fitness activity using accelerometer sensor fusion. , 2017, , .		10
23	Modeling activity recognition of multi resident using label combination of multi label classification in smart home. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	9
24	Multi Label Classification on Multi Resident in Smart Home Using Classifier Chains. <i>Advanced Science Letters</i> , 2018, 24, 1316-1319.	0.2	9
25	Multi-resident activity recognition using label combination approach in smart home environment. , 2017, , .		8
26	Enabling Indoor Localization With Internet of Things (IoT). , 2018, , .		8
27	Random k-Labelsets Method for Human Activity Recognition with Multi-Sensor Data in Smart Home. , 2019, , .		8
28	Rule-based conflict resolution framework for Internet of Things device management in smart home environment. , 2016, , .		7
29	Single classifier, OvO, OvA and RCC multiclass classification method in handheld based smartphone gait identification. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	6
30	Time dependent network resource optimization in cyber-physical systems using game theory. <i>Computer Communications</i> , 2021, 176, 1-12.	5.1	6
31	HMM-Based Decision Model for Smart Home Environment. <i>International Journal of Smart Home</i> , 2014, 8, 129-138.	0.4	6
32	MULTI-LABEL CLASSIFICATION FOR PHYSICAL ACTIVITY RECOGNITION FROM VARIOUS ACCELEROMETER SENSOR POSITIONS. <i>Journal of Information and Communication Technology</i> , 0, , .	0.4	6
33	Sustainability in intelligent building environments using weighted priority scheduling algorithm. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2017, 9, 689-705.	1.4	5
34	Conflict resolution using enhanced label combination method for complex activity recognition in smart home environment. , 2017, , .		5
35	Binary Relevance Model for Activity Recognition in Home Environment using Ambient Sensors. , 2019, , .		5
36	Mobile charging and data gathering in multiple sink Wireless Sensor Networks: How and why. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
37	Fall Detection Framework for Smart Home. , 2018, , .		4
38	Making Buildings Smarter and Energy-Efficientâ€”Using the Internet of Things Platform. IEEE Consumer Electronics Magazine, 2021, 10, 34-41.	2.3	4
39	Multi-Resident Activity Recognition using Multi-Label Classification in Ambient Sensing Smart Homes. , 2019, , .		3
40	The Impact of Memory-Efficient Bots on IoT-WSN Botnet Propagation. Wireless Personal Communications, 2021, 119, 2093-2105.	2.7	3
41	SOA-Based Framework for Home and Building Automation Systems (HBAS). International Journal of Smart Home, 2014, 8, 197-206.	0.4	3
42	Recognizing Complex Human Activities using Hybrid Feature Selections based on an Accelerometer Sensor. International Journal of Technology, 2017, 8, 968.	0.8	3
43	Enhancing indoor positioning service for location based Internet of Things (IoT): A source selecting approach with error compensation. , 2017, , .		2
44	Fuzzy based prediction schema framework for IoT based indoor environmental monitoring. , 2018, , .		2
45	Gait identification using One-vs-one classifier model. , 2016, , .		1
46	Elgar framework: Context-aware service orchestration with data Petri net. , 2017, , .		1
47	Fuzzy logic predictive method for indoor environment parametric dataset. , 2017, , .		1
48	Real Time Human Fall Detection Using Accelerometer and IoT. Lecture Notes in Electrical Engineering, 2019, , 635-639.	0.4	1
49	FPGA Implementation of Handwritten Number Recognition using Artificial Neural Network. , 2019, , .		1
50	Device Verification and Compatibility for Heterogeneous Semantic IoT Systems. , 2019, , .		1
51	A Novel PR Controller with Improved Performance for Single-Phase UPS Inverter. , 2021, , .		1
52	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
53	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
54	A Great Year for IEEE CE Malaysia [Society News]. IEEE Consumer Electronics Magazine, 2014, 3, 26-27.	2.3	0

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55	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
56	Membership Drive by CESoc Malaysia [Society News]. IEEE Consumer Electronics Magazine, 2015, 4, 16-17.	2.3	0
57	Yamaguchi University Delegation Visits the CE Society Malaysia Chapter [Society News]. IEEE Consumer Electronics Magazine, 2017, 6, 8-9.	2.3	0
58	Recognizing stationary and locomotion activities using combinational of spectral analysis with statistical descriptors features. AIP Conference Proceedings, 2017, , .	0.4	0
59	Detecting critical nodes for network vulnerability assessment under cascading failures. , 2017, , .		0
60	Consumer-Centric Internet of Things: Driving the Digital Transformations [Society News]. IEEE Consumer Electronics Magazine, 2018, 7, 13-13.	2.3	0
61	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
62	Reducing the Severity of Black Hole and DDoS Attacks in MANETs by Modifying AODV Protocol using MAC Authentication and Symmetric Encryption. , 2018, , .		0
63	Resolution Mechanism Model for Heterogeneous Systems in Smart Home Environment. , 2018, , .		0
64	Workshop on Consumer Technologies-Invent the Future Today [Society News]. IEEE Consumer Electronics Magazine, 2019, 8, 9-72.	2.3	0
65	The Malaysia Project Competition on the IoT for Humanitarian Causes [Society News]. IEEE Consumer Electronics Magazine, 2019, 8, 8-8.	2.3	0
66	Semantic Interoperability Test Method for Data Schema Comparison with Constrained Application Protocol. , 2019, , .		0
67	IoT Device Management using Semantics for Distinguishing Device Compatibility. , 2019, , .		0
68	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
69	IP Based Network Public Address for Intelligent Building Environment. International Journal of Smart Home, 2014, 8, 77-86.	0.4	0
70	Hybrid Relief-f Differential Evolution Feature Selection for Accelerometer Actions. Advanced Science Letters, 2018, 24, 1168-1171.	0.2	0
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