

A review on smart home present state and challenges: li
internet of things (IoT)

Wireless Networks

25, 3193-3204

DOI: 10.1007/s11276-018-1712-5

Citation Report

#	ARTICLE	IF	CITATIONS
1	Smart Home Technologies. , 2018, , .		17
2	Privacy of IoT-Enabled Smart Home Systems. , 0, , .		14
3	Performance Analysis of Indoor Smart Environmental Control Factors: Using Temperature to Control the Rate of Formaldehyde Emission. IEEE Access, 2019, 7, 163749-163756.	2.6	6
4	Semantic Interoperability in Cyber-Physical Systems. , 2019, , .		1
5	Energy-aware grid-based data aggregation scheme in routing protocol for agricultural internet of things. Sustainable Computing: Informatics and Systems, 2020, 28, 100422.	1.6	22
6	A Review of Smart Design Based on Interactive Experience in Building Systems. Sustainability, 2020, 12, 6760.	1.6	14
7	Detection and Mitigation of RPL Rank and Version Number Attacks in the Internet of Things: SRPL-RP. Sensors, 2020, 20, 5997.	2.1	50
8	Service discovery in the Internet of Things: review of current trends and research challenges. Wireless Networks, 2020, 26, 5371-5391.	2.0	45
9	A virtual execution platform for OpenFlow controller using NFV. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 964-971.	2.7	3
10	Multi-Objective Optimization of Home Appliances and Electric Vehicle Considering Customer's Benefits and Offsite Shared Photovoltaic Curtailment. Energies, 2020, 13, 2852.	1.6	15
11	Proposing a Secure RPL based Internet of Things Routing Protocol: A Review. Ad Hoc Networks, 2020, 101, 102096.	3.4	75
12	Internet of things and ransomware: Evolution, mitigation and prevention. Egyptian Informatics Journal, 2021, 22, 105-117.	4.4	99
13	Novel approach for detection of IoT generated DDoS traffic. Wireless Networks, 2021, 27, 1573-1586.	2.0	50
14	Unification of Blockchain and Internet of Things (BloT): requirements, working model, challenges and future directions. Wireless Networks, 2021, 27, 55-90.	2.0	112
15	The Reliability of IoT Networks With Characteristics of Abnormal Induced Signals. IEEE Transactions on Reliability, 2021, 70, 808-818.	3.5	3
16	HouseTalk: A House That Comforts You. IEEE Access, 2021, 9, 27790-27801.	2.6	5
17	Classification of botnet attacks in IoT smart factory using honeypot combined with machine learning. PeerJ Computer Science, 2021, 7, e350.	2.7	71
18	Cybersecurity for Data Science: Issues, Opportunities, and Challenges. Lecture Notes in Networks and Systems, 2021, , 435-444.	0.5	12

#	ARTICLE	IF	CITATIONS
19	A secure routing protocol for low power and lossy networks based 6LoWPAN networks to mitigate DIS flooding attacks. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	4
20	Proposing Encryption Selection Model for IoT Devices Based on IoT Device Design. , 2021, , .		6
21	Performance Evaluation of Lightweight Encryption Algorithms for IoT-Based Applications. Arabian Journal for Science and Engineering, 2021, 46, 4015-4037.	1.7	17
22	Comparative Study on Different Parameters Used for Energy Conservation in Wireless Sensor Networks. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 0, , 1-13.	2.1	1
24	Monte Carlo Node Localization Based on Improved QUARTE Optimization. Journal of Sensors, 2021, 2021, 1-12.	0.6	5
25	A Review on Impact of Internet of Things (IoT) on Individual Privacy in Smart Home Systems. , 2021, , .		0
26	A systematic review of the research framework and evolution of smart homes based on the internet of things. Telecommunication Systems, 2021, 77, 597-623.	1.6	10
27	6G-Enabled IoT Home Environment Control Using Fuzzy Rules. IEEE Internet of Things Journal, 2021, 8, 5442-5452.	5.5	47
28	Unknown hostile environment-oriented autonomous WSN deployment using a mobile robot. Journal of Network and Computer Applications, 2021, 182, 103053.	5.8	23
29	Context Awareness in Enterprise Systems Design. , 2021, , .		0
30	Smart home security: challenges, issues and solutions at different IoT layers. Journal of Supercomputing, 2021, 77, 14053-14089.	2.4	79
31	Systematically Quantifying IoT Privacy Leakage in Mobile Networks. IEEE Internet of Things Journal, 2021, 8, 7115-7125.	5.5	4
32	A review of logistics Internet-of-Things: Current trends and scope for future research. Journal of Industrial Information Integration, 2021, 22, 100194.	4.3	67
33	ScaleUp: middleware for intelligent environments. PeerJ Computer Science, 2021, 7, e545.	2.7	2
35	A blockchain-based access control scheme for smart home. Journal of Physics: Conference Series, 2021, 1971, 012049.	0.3	1
38	Cyber security framework for smart home energy management systems. Sustainable Energy Technologies and Assessments, 2021, 46, 101232.	1.7	6
39	SpecTalk: Conforming IoT Implementations to Sensor Specifications. Sensors, 2021, 21, 5260.	2.1	2
40	Application of Internet of Things and Naive Bayes in Public Health Environmental Management of Government Institutions in China. Journal of Healthcare Engineering, 2021, 2021, 1-7.	1.1	6

#	ARTICLE	IF	CITATIONS
41	The dark sides of AI personal assistant: effects of service failure on user continuance intention. <i>Electronic Markets</i> , 2022, 32, 17-39.	4.4	26
42	An Accessible Smart Home Based on Integrated Multimodal Interaction. <i>Sensors</i> , 2021, 21, 5464.	2.1	3
43	Intelligent energy management: Evolving developments, current challenges, and research directions for sustainable future. <i>Journal of Cleaner Production</i> , 2021, 314, 127904.	4.6	24
44	Replica selection and placement techniques on the IoT and edge computing: a deep study. <i>Wireless Networks</i> , 2021, 27, 5039-5055.	2.0	9
45	T2FL-PSO: Type-2 Fuzzy Logic-Based Particle Swarm Optimization Algorithm Used to Maximize the Lifetime of Internet of Things. <i>IEEE Access</i> , 2021, 9, 63966-63979.	2.6	47
46	Energy Harvesting Models and Techniques for Green IoT. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2021, , 117-143.	0.3	3
47	Leveraging commonsense reasoning towards a smarter Smart Home. <i>Procedia Computer Science</i> , 2021, 192, 666-675.	1.2	1
48	ContextDrive: Towards a Functional Scenario-Based Testing Framework for Context-Aware Applications. <i>IEEE Access</i> , 2021, 9, 80478-80490.	2.6	2
49	Energy consumption detection of sensor nodes in the Internet of things based on modal symmetry algorithm. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	3.3	3
50	Smart Homes: How Much Will They Support Us? A Research on Recent Trends and Advances. <i>IEEE Access</i> , 2021, 9, 26388-26419.	2.6	28
51	Security of Wireless Sensor Networks. , 2021, , 2205-2230.		0
52	A Survey on the Bottleneck Between Applications Exploding and User Requirements in IoT. <i>IEEE Internet of Things Journal</i> , 2022, 9, 261-273.	5.5	10
53	A Review on Honeypot-based Botnet Detection Models for Smart Factory. <i>International Journal of Advanced Computer Science and Applications</i> , 2020, 11, .	0.5	12
54	Smart Cities and Digital Governance. <i>Advances in Electronic Government, Digital Divide, and Regional Development Book Series</i> , 2020, , 87-106.	0.2	17
55	The Role of IoT in Digital Governance. <i>Advances in Electronic Government, Digital Divide, and Regional Development Book Series</i> , 2020, , 128-150.	0.2	21
56	Secure Smart and Remote Multipurpose Attendance Monitoring System. <i>EAI Endorsed Transactions on Energy Web</i> , 0, , 164583.	0.3	10
57	Experiment on Distance Measurement Using Single Camera. , 2021, , .		2
58	Energy efficiency analysis of narrowband Internet of Things with auxiliary active cycles for small data transmission. <i>Transactions on Emerging Telecommunications Technologies</i> , 2022, 33, e4376.	2.6	5

#	ARTICLE	IF	CITATIONS
60	HyDSMaaS: A Hybrid Communication Infrastructure with LoRaWAN and LoraMesh for the Demand Side Management as a Service. <i>Future Internet</i> , 2021, 13, 271.	2.4	2
61	Internet of Things (IoT): From awareness to continued use. <i>International Journal of Information Management</i> , 2022, 62, 102442.	10.5	74
62	Network Security and Internet of Things. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2020, , 198-238.	0.2	0
63	Fog Computing and Edge Computing for the Strengthening of Structural Monitoring Systems in Health and Early Warning Score Based on Internet of Things. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2020, , 59-83.	0.2	1
64	Ransomware Attack and Remedial: A Survey. <i>International Journal of Innovative Research in Applied Sciences and Engineering</i> , 2020, 3, 490.	0.3	1
65	Security of Wireless Sensor Networks. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2020, , 239-264.	0.2	0
66	Smart Home Security Based on the Internet of Things. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 388-393.	0.5	0
67	Consumer Attitudes to the Smart Home Technologies and the Internet of Things (IoT). <i>Energies</i> , 2021, 14, 7913.	1.6	21
68	Efficient energy-based orthogonal matching pursuit algorithm for multiple sound source localization with unknown source count. <i>Measurement Science and Technology</i> , 2022, 33, 045018.	1.4	4
69	Integrity protection method for trusted data of IoT nodes based on transfer learning. <i>Web Intelligence</i> , 2021, 19, 203-213.	0.1	0
70	New Hybrid IoT LoRaWAN/IRC Sensors: SMART Water Metering System. <i>Computers, Materials and Continua</i> , 2022, 71, 5201-5217.	1.5	4
71	The Impact of Context Awareness and Ubiquity on Mobile Government Service Adoption. <i>Mobile Information Systems</i> , 2022, 2022, 1-20.	0.4	6
72	Smart Greenhouse Monitoring System Using Internet of Things and Artificial Intelligence. <i>Wireless Personal Communications</i> , 2022, 124, 3603-3634.	1.8	17
73	Secure Key Establishment Protocol for Smart Homes Based on Symmetric Cryptography. , 2022, , .		1
74	Multiobjective Metaheuristic Load Control Algorithm for Interaction between Smart Home and Humans. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-9.	0.6	2
75	Protection of User's Data in IOT. , 2022, , .		6
76	IoTES (A Machine learning model) Design dependent encryption selection for IoT devices. , 2022, , .		5
77	Proposing Encryption Selection Model for IoT Devices Based on IoT Device Design. , 2022, , .		6

#	ARTICLE	IF	CITATIONS
78	FPGA-based edge computing: Task modeling for cloud-edge collaboration. International Journal of Modeling, Simulation, and Scientific Computing, 2022, 13, .	0.9	2
79	Mapping two decades of smart home research: A systematic scientometric analysis. Technological Forecasting and Social Change, 2022, 179, 121676.	6.2	15
80	Cross-Modal Travel Route Recommendation Algorithm Based on Internet of Things Awareness. Journal of Sensors, 2021, 2021, 1-11.	0.6	3
81	The Detection of IoT Botnet using Machine Learning on IoT-23 Dataset. , 2022, , .		9
82	An Improved Efficient Certificateless Hybrid Signcryption Scheme for Internet of Things. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	0.8	2
83	FamilyGuard: A Security Architecture for Anomaly Detection in Home Networks. Sensors, 2022, 22, 2895.	2.1	4
84	IoT Based Collision Avoidance for Smart Vehicle to Vehicle Communication. , 2022, , .		1
85	Open Issues Automating Multi-Environment IoT Systems. , 2022, , .		0
86	Construction of Home Product Design System Based on Self-Encoder Depth Neural Network. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	1
87	STGE: Sensor Topology and Graph Embedding Learning with Heterogeneous Smart Environment. , 2021, , .		0
88	Fog Computing and Edge Computing for the Strengthening of Structural Monitoring Systems in Health and Early Warning Score Based on Internet of Things. , 2022, , 539-563.		0
89	Improving Security with Efficient Key Management in Public cloud using Hybrid AES, ECC and LSB Steganography comparing with Novel hybrid Cube Base Obfuscation. , 2022, , .		0
90	Elite Oppositional Farmland Fertility Optimization Based Node Localization Technique for Wireless Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-9.	0.8	24
92	An Empirical Investigation of Factors Influencing the Adoption of Internet of Things Services by End-Users. Arabian Journal for Science and Engineering, 2023, 48, 1641-1659.	1.7	4
93	Human Daily Activities: From Detection to Prediction. , 2022, , .		0
94	The Hitchhiker's Guide to Fused Twins: A Review of Access to Digital Twins In Situ in Smart Cities. Remote Sensing, 2022, 14, 3095.	1.8	15
95	Integrating Human Factors in the Visualisation of Usable Transparency for Dynamic Risk Assessment. Information (Switzerland), 2022, 13, 340.	1.7	3
96	Artificial intelligence - enabled soft sensor and internet of things for sustainable agriculture using ensemble deep learning architecture. Computers and Electrical Engineering, 2022, 102, 108128.	3.0	56

#	ARTICLE	IF	CITATIONS
97	Agriculture monitoring system based on internet of things by deep learning feature fusion with classification. Computers and Electrical Engineering, 2022, 102, 108197.	3.0	3
99	A Comprehensive Study of Using Internet of Things (IOT) in Monitoring System for Smart Agriculture. , 2022, , .		1
101	Design and Analysis of Home Control Complex System Based on PLC Technology. Mobile Information Systems, 2022, 2022, 1-9.	0.4	0
102	Design of Distance Teaching System for Interior Design Course Based on Internet of Things and Education Platform. Wireless Communications and Mobile Computing, 2022, 2022, 1-7.	0.8	1
103	Aided innovative design of bathroom products based on artificial intelligence technology. Journal of Control and Decision, 0, , 1-10.	0.7	0
104	A Survey of User Perspectives on Security and Privacy in a Home Networking Environment. ACM Computing Surveys, 2023, 55, 1-38.	16.1	4
105	Rank and Wormhole Attack Detection Model for RPL-Based Internet of Things Using Machine Learning. Sensors, 2022, 22, 6765.	2.1	12
106	A Secure and Anonymous User Authentication Scheme for IoT-Enabled Smart Home Environments Using PUF. IEEE Access, 2022, 10, 101330-101346.	2.6	13
107	A Classification-Based Blockchain Architecture for Smart Home with Hierarchical PoW Mechanism. Buildings, 2022, 12, 1321.	1.4	2
108	Sustainable Development Research of Green Smart Park in High-End Manufacturing Based on Internet of Things. Journal of Environmental and Public Health, 2022, 2022, 1-9.	0.4	3
109	A context-aware internet of things-driven security scheme for smart homes. Security and Privacy, 2023, 6, .	1.9	7
110	The Impact of Agricultural Information System on Agricultural Product Trading Efficiency Using Internet of Things Technology. Mathematical Problems in Engineering, 2022, 2022, 1-11.	0.6	1
111	A Dual-Encoder-Condensed Convolution Method for High-Precision Indoor Positioning. Remote Sensing, 2022, 14, 4746.	1.8	2
112	Context-Aware and User Adaptive Smart Home Ecosystems Using Wearable and Semantic Technologies During and Post COVID-19 Pandemic. Springer Series on Bio- and Neurosystems, 2022, , 215-233.	0.2	1
113	A Step toward Next-Generation Advancements in the Internet of Things Technologies. Sensors, 2022, 22, 8072.	2.1	17
114	A study on functional capabilities and recent advancements in smart home environment. Materials Today: Proceedings, 2022, , .	0.9	2
115	Support Vector Machine Binary Classifiers of Home Presence Using Active Power. Designs, 2022, 6, 108.	1.3	3
116	Achieving efficient energy-aware security in IoT networks: a survey of recent solutions and research challenges. Wireless Networks, 2023, 29, 787-808.	2.0	6

#	ARTICLE	IF	CITATIONS
117	Global Research Trends on Smart Homes for Older Adults: Bibliometric and Scientometric Analyses. International Journal of Environmental Research and Public Health, 2022, 19, 14821.	1.2	2
118	A Comprehensive Survey of Security Issues of Smart Home System: "Spear" and "Shields," Theory and Practice. IEEE Access, 2022, 10, 124167-124192.	2.6	4
119	A Systematic Literature Review of Privacy, Security, and Challenges on Applying IoT to Create Smart Home. , 2022, , .		0
120	Shape Based Feature Extraction for Currency recognition and compare the accuracy and sensitivity with ORB algorithm. , 2022, , .		0
121	Chatbot: A Bridge Between Technology and Learn. , 2022, , .		1
122	Knowledge-based Visual Context-Aware Framework for Applications in Robotic Services. , 2023, , .		0
123	IoT (Internet of Things) Going to Monitor System for Safe Agricultural Production Application. , 2022, , .		0
124	Context-aware workflow management for smart manufacturing: A literature review of semantic web-based approaches. Future Generation Computer Systems, 2023, 145, 38-55.	4.9	7
125	Exploring Technical Debt on IoT Software Projects. , 2022, , .		1
126	Modeling and implementation of a low-cost IoT-smart weather monitoring station and air quality assessment based on fuzzy inference model and MQTT protocol. Modeling Earth Systems and Environment, 2023, 9, 4085-4102.	1.9	3
127	Social media analytics for mining customer complaints to explore product opportunities. Computers and Industrial Engineering, 2023, 178, 109104.	3.4	4
128	Smart Home System: A Comprehensive Review. Journal of Electrical and Computer Engineering, 2023, 2023, 1-30.	0.6	8
129	IoT Privacy by Design. Advances in Business Strategy and Competitive Advantage Book Series, 2023, , 270-300.	0.2	0
131	Event detection using the user context in sensor based IoT. Wireless Networks, 0, , .	2.0	0
132	Real-Time Cost Optimization Approach Based on Deep Reinforcement Learning in Software-Defined Security Middle Platform. Information (Switzerland), 2023, 14, 209.	1.7	2
134	Ensuring Reliability in Smart Building IoT Operations Through Real-Time Holistic Data Treatment. IFIP Advances in Information and Communication Technology, 2023, , 207-218.	0.5	0
136	Detection System for Domestic Environmental Pollutants Based on ThingSpeak. Communications in Computer and Information Science, 2023, , 554-559.	0.4	0
138	Critical monitoring of the crops and conditions though IoT for agricultural systems. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
140	Ldetect, IOT Based Pothole Detector. Advances in Intelligent Systems and Computing, 2023, , 427-437.	0.5	1
142	Multilingual Home Automation Using Telegrambot and Raspberry Pi. , 2023, , .		0
143	Inteliv: An Architecture for Graph-Based Dynamic Context Modeling for Smart Living. , 2023, , .		0
146	IoT and AI-Based Smart Solutions for the Agriculture Industry. Advances in Computational Intelligence and Robotics Book Series, 2024, , 317-351.	0.4	6
147	Conceptualizing Smart Tourism. Intelligent Systems Reference Library, 2024, , 7-31.	1.0	0
149	A secure and cost effective platform for employee management system using lightweight standalone framework over El Gamal encryption algorithm. AIP Conference Proceedings, 2024, , .	0.3	0
150	Exploring IoT-Applications: A Survey of Recent Progress, Challenges, and Impact of AI, Blockchain, and Disruptive Technologies. , 2023, , .		0
151	Applications of Blockchain Technology in Supply Chain Management. Advances in Logistics, Operations, and Management Science Book Series, 2023, , 248-304.	0.3	3
152	Internet of Things (IoT) Impact on Inventory Management. Advances in Logistics, Operations, and Management Science Book Series, 2023, , 224-247.	0.3	0
153	Enhancing Identification of IoT Anomalies in Smart Homes Using Secure Blockchain Technology. Advances in Logistics, Operations, and Management Science Book Series, 2023, , 141-155.	0.3	0
154	Detecting Cyber Threats With a Graph-Based NIDPS. Advances in Logistics, Operations, and Management Science Book Series, 2023, , 36-74.	0.3	3
157	Industry 4.0. Advances in Logistics, Operations, and Management Science Book Series, 2024, , 342-405.	0.3	0
158	Sustainability Metrics and Measurement in Industry 4.0-Enabled SCM. Advances in Logistics, Operations, and Management Science Book Series, 2024, , 176-233.	0.3	0