## A Survey on Ambient Intelligence in Healthcare

Proceedings of the IEEE 101, 2470-2494

DOI: 10.1109/jproc.2013.2262913

Citation Report

#	Article	IF	CITATIONS
1	NFC based provisioning of instructional videos to assist with instrumental activities of daily living. , 2014, 2014, 4131-4.		14
2	Human Mobility Monitoring in Very Low Resolution Visual Sensor Network. Sensors, 2014, 14, 20800-20824.	3.8	19
3	An Adaptive Architecture for Ambient Intelligence Based on Meta-modeling, Smart Agents, and Wireless Sensor Networks. IEEE Latin America Transactions, 2014, 12, 1508-1514.	1.6	3
4	UbiComp for animal welfare. , 2014, , .		13
5	Modeling visit behaviour in smart homes using unsupervised learning. , 2014, , .		12
6	Advanced integration of multimedia assistive technologies: A prospective outlook. , 2014, , .		4
7	Behavior analysis of elderly using topic models. Pervasive and Mobile Computing, 2014, 15, 181-199.	3.3	21
8	Challenges of M2M Technologies for eHealth. Lecture Notes in Electrical Engineering, 2014, , 249-253.	0.4	O
9	Multicamera trajectory analysis for semantic behaviour characterisation. , 2014, , .		4
10	Integrated social network reputation inspired routing for effective data forwarding. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	2.4	2
11	A survey of wireless technologies coexistence in WBAN: analysis and open research issues. Wireless Networks, 2014, 20, 2165-2199.	3.0	152
12	Group preference modeling for intelligent shared environments: Social welfare beyond the sum. Information Sciences, 2014, 278, 588-598.	6.9	6
13	Interoperable services based on activity monitoring in Ambient Assisted Living environments. , 2014, , .		3
14	Context-Aware Biomedical Smart Systems. , 2015, , 153-166.		О
15	A comprehensive review on usage of Internet of Things (IoT) in healthcare system. , 2015, , .		102
16	Care and Neurorehabilitation in the Disorder of Consciousness: A Model in Progress. Scientific World Journal, The, 2015, 2015, 1-10.	2.1	10
17	Automatic Fall Detection System Based on the Combined Use of a Smartphone and a Smartwatch. PLoS ONE, 2015, 10, e0140929.	2.5	86
18	Patient Data Prioritization in the Cross-Layer Designs of Wireless Body Area Network. Journal of Computer Networks and Communications, 2015, 2015, 1-21.	1.6	11

#	Article	IF	CITATIONS
19	Lynx: Automatic Elderly Behavior Prediction in Home Telecare. BioMed Research International, 2015, 2015, 1-18.	1.9	12
20	Internet of Vehicles for E-Health Applications in View of EMI on Medical Sensors. Journal of Sensors, 2015, 2015, 1-10.	1.1	14
21	Smart Spaces Enabled Mobile Healthcare Services in Internet of Things Environments. International Journal of Embedded and Real-Time Communication Systems, 2015, 6, 1-27.	0.5	23
22	Service Intelligence and Communication Security for Ambient Assisted Living. International Journal of Embedded and Real-Time Communication Systems, 2015, 6, 76-100.	0.5	18
23	Wearable Wireless Health Monitoring: Current Developments, Challenges, and Future Trends. IEEE Microwave Magazine, 2015, 16, 55-70.	0.8	196
24	Activity Recognition Based on Streaming Sensor Data for Assisted Living in Smart Homes. , 2015, , .		13
25	Automated Detection of Activity Transitions for Prompting. IEEE Transactions on Human-Machine Systems, 2015, 45, 575-585.	<b>3.</b> 5	46
26	A Semantic Big Data Platform for Integrating Heterogeneous Wearable Data in Healthcare. Journal of Medical Systems, 2015, 39, 185.	3.6	83
27	Interpretation of behaviour evolution in activities of daily living. , 2015, , .		0
28	Caring Analytics for Adults With Special Needs. IEEE Design and Test, 2015, 32, 35-44.	1.2	7
29	Assist-Me - A Volunteer Mobile Emergency System to Assist Elderly People. , 2015, , .		7
30	Arousal Level Classification in the Ageing Adult by Measuring Electrodermal Skin Conductivity. Lecture Notes in Computer Science, 2015, , 213-223.	1.3	16
31	Informationally Structured Space for Life Log Monitoring in Elderly Care., 2015,,.		5
32	Ambient Technology to Support Elderly People in Outdoor Risk Situations. Communications in Computer and Information Science, 2015, , 35-56.	0.5	2
33	Digital assistance services for emergency situations in personalized mobile healthcare: Smart space based approach. , $2015$ , , .		25
34	Comparative Analysis of Artificial Hydrocarbon Networks and Data-Driven Approaches for Human Activity Recognition. Lecture Notes in Computer Science, 2015, , 150-161.	1.3	4
35	EGGR: Energy-aware and delivery Guarantee Geographic Routing protocol. Wireless Networks, 2015, 21, 1765-1774.	3.0	7
36	Supporting caregivers in assisted living facilities for persons with disabilities: a user study. Universal Access in the Information Society, 2015, 14, 133-144.	3.0	22

#	Article	IF	CITATIONS
37	An integrated system for voice command recognition and emergency detection based on audio signals. Expert Systems With Applications, 2015, 42, 5668-5683.	7.6	44
38	Variable-rate transmission method with coordinator election for wireless body area networks. Wireless Networks, 2015, 21, 2169-2180.	3.0	6
39	Accelerometer-Based Human Activity Recognition in Smartphones for Healthcare Services. Springer Series in Bio-/neuroinformatics, 2015, , 147-169.	0.1	18
40	Automatic Metadata Generation Through Analysis of Narration Within Instructional Videos. Journal of Medical Systems, 2015, 39, 94.	3.6	11
41	Statistical models for unobtrusively detecting abnormal periods of inactivity in older adults. User Modeling and User-Adapted Interaction, 2015, 25, 231-265.	3.8	15
42	Design and Implementation of a Prototype with a Standardized Interface for Transducers in Ambient Assisted Living. Sensors, 2015, 15, 2999-3022.	3.8	6
43	Fusing voice and query data for non-invasive detection of laryngeal disorders. Expert Systems With Applications, 2015, 42, 8445-8453.	7.6	7
44	A new clustering routing method based on PECE for WSN. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	59
45	A Multi-Agent System in Ambient Intelligence for the Physical Rehabilitation of Older People. Advances in Intelligent Systems and Computing, 2015, , 113-123.	0.6	9
46	ACWSN: an adaptive cross layer framework for video transmission over wireless sensor networks. Wireless Networks, 2015, 21, 2693-2710.	3.0	17
47	A review of smart homes in healthcare. Journal of Ambient Intelligence and Humanized Computing, 2015, 6, 495-517.	4.9	136
48	QoE-based optimal resource allocation in wireless healthcare networks: opportunities and challenges. Wireless Networks, 2015, 21, 2483-2500.	3.0	9
49	Light-Weight Online Unsupervised Posture Detection by Smartphone Accelerometer. IEEE Internet of Things Journal, 2015, 2, 329-339.	8.7	14
51	Application specific dynamic sleep scheduling. , 2015, , .		3
52	SAETA: A Smart Coaching Assistant for Professional Volleyball Training. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1138-1150.	9.3	40
53	Bridging e-Health and the Internet of Things: The SPHERE Project. IEEE Intelligent Systems, 2015, 30, 39-46.	4.0	201
54	Mobile Crowd Sensing and Computing. ACM Computing Surveys, 2015, 48, 1-31.	23.0	597
55	Toward Automating Clinical Assessments: A Survey of the Timed Up and Go. IEEE Reviews in Biomedical Engineering, 2015, 8, 64-77.	18.0	124

#	Article	IF	Citations
56	Design of a portable 7-lead ecg monitoring system with low power front-end filtering circuit., 2015,,.		1
57	Ambient Assisted Living [Guest editors' introduction]. IEEE Intelligent Systems, 2015, 30, 2-6.	4.0	39
58	CCS_WHMS: A Congestion Control Scheme for Wearable Health Management System. Journal of Medical Systems, 2015, 39, 189.	3.6	3
59	Modelling and simulation of activities of daily living representing an older adult's behaviour., 2015,,.		6
60	A Smart Phone-Based Pocket Fall Accident Detection, Positioning, and Rescue System. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 44-56.	6.3	139
61	THE ROLE OF CROSS-LAYERED DESIGNS IN WIRELESS BODY AREA NETWORK. Jurnal Teknologi (Sciences) Tj ETQ	q1 <sub>0.4</sub> 0.78	4314 rgBT /(
62	Expert Knowledge for Modeling Functional Health from Sensor Data. Methods of Information in Medicine, 2016, 55, 516-524.	1.2	4
63	Optimal Network QoS over the Internet of Vehicles for E-Health Applications. Mobile Information Systems, 2016, 2016, 1-11.	0.6	4
64	An Activity Recognition-Assistance Algorithm Based on Hybrid Semantic Model in Smart Home. International Journal of Distributed Sensor Networks, 2016, 12, 2396012.	2.2	5
65	The future of gerontological occupational therapy. , 2016, , 469-488.		2
66	An Efficient Next Hop Selection Algorithm for Multi-Hop Body Area Networks. PLoS ONE, 2016, 11, e0146464.	2.5	41
67	Intelligent Mobile, Wearable, and Ambient Technologies for Behavioral Health Care., 2016, , 137-162.		14
68	WristEye: Wrist-Wearable Devices and a System for Supporting Elderly Computer Learners. IEEE Access, 2016, 4, 1454-1463.	4.2	12
69	High-accuracy positioning for indoor applications: RFID, UWB, 5G, and beyond. , 2016, , .		43
70	SOnAr: Smart Ontology activity recognition framework to fulfill semantic web in smart homes. , 2016, , .		14
71	Detecting Human Movement Patterns Through Data Provided by Accelerometers. A Case Study Regarding Alzheimer's Disease. Lecture Notes in Computer Science, 2016, , 56-66.	1.3	5
72	Fuzzy Intelligent System for Supporting Preeclampsia Diagnosis from the Patient Biosignals. Lecture Notes in Computer Science, 2016, , 3-14.	1.3	1
73	Sensor data quality processing for vital signs with opportunistic ambient sensing., 2016, 2016, 2016, 2484-2487.		9

#	ARTICLE	IF	Citations
74	Off-Body Radio Channel Impulse Response Model Under Hospital Environment: Measurement and Modeling. IEEE Communications Letters, 2016, 20, 2332-2335.	4.1	3
75	On Personalization in IoT., 2016, , .		14
76	Designing a Video Monitoring System for AAL applications: the SPHERE Case Study. , 2016, , .		6
77	User-centric, embedded vision-based human monitoring. , 2016, , .		10
78	Performance Evaluation of an Ambient Intelligence Testbed for Improving Quality of Life: Evaluation Using Clustering Approach. , 2016, , .		2
79	Context-aware architecture utilizing computing with words and ISO/IEC/IEEE 42010. , 2016, , .		0
80	Performance Evaluation of an Ambient Intelligence Testbed for Improving Quality of Life: Evaluation Using Mean Shift Clustering Algorithm. , $2016$ , , .		0
81	Dynamic Domain Model for Micro Context-Aware Adaptation of Applications. , 2016, , .		2
82	Towards a Platform for Prototyping IoT Health Monitoring Services. Lecture Notes in Business Information Processing, 2016, , 522-533.	1.0	13
83	Design of an Ambient Intelligence Testbed for Improving Quality of Life. , 2016, , .		8
84	Context Aware Computing for Ambient Assisted Living. Lecture Notes in Computer Science, 2016, , 321-331.	1.3	2
85	A Comprehensive Semantic Model for Smart Object Description and Request Resolution in the Internet of Things. Procedia Computer Science, 2016, 83, 147-154.	2.0	22
86	Wireless Body Area Networks: Applications and Technologies. Procedia Computer Science, 2016, 83, 1274-1281.	2.0	271
87	Hibernus++: A Self-Calibrating and Adaptive System for Transiently-Powered Embedded Devices. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 1968-1980.	2.7	156
88	Data acquisition for wearables and in-patient monitoring. , 2016, , .		2
89	Smart environment architecture for emotion detection and regulation. Journal of Biomedical Informatics, 2016, 64, 55-73.	4.3	112
90	Towards Dementia-Friendly Smart Homes. , 2016, , .		7
91	<i>Review:</i> Emerging Trends in Healthcare Adoption of Wireless Body Area Networks. Biomedical Instrumentation and Technology, 2016, 50, 264-276.	0.4	7

#	Article	IF	CITATIONS
92	Idea., 2016,,.		30
93	Correlation between videogame mechanics and executive functions through EEG analysis. Journal of Biomedical Informatics, 2016, 63, 131-140.	4.3	52
95	Everything you wanted to know about smart cities: The Internet of things is the backbone. IEEE Consumer Electronics Magazine, 2016, 5, 60-70.	2.3	704
96	Neural networks for computer-aided diagnosis in medicine: A review. Neurocomputing, 2016, 216, 700-708.	5.9	79
97	Demultiplexing activities of daily living in IoT enabled smarthomes. , 2016, , .		26
98	Big data stream computing in healthcare real-time analytics. , 2016, , .		25
99	Patient Data Dissemination in Wireless Body Area Network. , 2016, , .		1
100	EM-Psychiatry: An Ambient Intelligent System for Psychiatric Emergency. IEEE Transactions on Industrial Informatics, 2016, 12, 2321-2330.	11.3	19
101	Clustering Big Spatiotemporal-Interval Data. IEEE Transactions on Big Data, 2016, 2, 190-203.	6.1	43
102	Reducing impact of network induced perturbations in remote control systems. Control Engineering Practice, 2016, 55, 127-138.	<b>5.</b> 5	23
103	A smartphone app provides preventive care for the elderly with dementia., 2016,,.		2
104	Effects of the performance management information system in improving performance: an empirical study in Shanghai Ninth People's Hospital. SpringerPlus, 2016, 5, 1785.	1.2	5
105	A neural network based algorithm for speaker localization in a multi-room environment. , 2016, , .		47
106	Energy efficient sensors data stream model for real-time and continuous vital signs monitoring. , $2016,  ,  .$		0
107	Ambient intelligence for health environments. Journal of Biomedical Informatics, 2016, 64, 207-210.	4.3	30
108	Identifying activity boundaries for activity recognition in smart environments. , 2016, , .		4
109	An intelligent model of home support for people with loss of autonomy: A novel approach. , 2016, , .		6
110	A hybrid rule and machine learning based generic alerting platform for smart environments. , 2016, 2016, 5405-5408.		7

#	Article	IF	CITATIONS
111	Considerations towards security and privacy in Internet of Things based eHealth applications. , 2016, , .		5
112	Performance analysis of multiplexing and error control scheme for body area networks. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	6
113	Admission Control Over Internet of Vehicles Attached With Medical Sensors for Ubiquitous Healthcare Applications. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1195-1204.	6.3	11
114	Multioccupant Activity Recognition in Pervasive Smart Home Environments. ACM Computing Surveys, 2016, 48, 1-36.	23.0	91
115	Towards an automatic early stress recognition system for office environments based on multimodal measurements: A review. Journal of Biomedical Informatics, 2016, 59, 49-75.	4.3	348
116	Situated Agents and Humans in Social Interaction for Elderly Healthcare: From Coaalas to AVICENA. Journal of Medical Systems, 2016, 40, 38.	3.6	5
117	A Task-Oriented Framework for Networked Wearable Computing. IEEE Transactions on Automation Science and Engineering, 2016, 13, 621-638.	5.2	36
118	Multimedia sensors embedded in smartphones for ambient assisted living and e-health. Multimedia Tools and Applications, 2016, 75, 13271-13297.	3.9	26
119	Monitoring Activities of Daily Living in Smart Homes: Understanding human behavior. IEEE Signal Processing Magazine, 2016, 33, 81-94.	5.6	237
120	High-Accuracy Localization for Assisted Living: 5G systems will turn multipath channels from foe to friend. IEEE Signal Processing Magazine, 2016, 33, 59-70.	5.6	321
121	Wearable Health Monitoring Systems: An Overview of Design Research Areas. Annals of Information Systems, 2016, , 17-27.	0.5	4
122	Event-Aware Framework for Dynamic Services Discovery and Selection in the Context of Ambient Intelligence and Internet of Things. IEEE Transactions on Automation Science and Engineering, 2016, 13, 85-102.	<b>5.</b> 2	74
123	Design of Wearable Health Monitoring Systems: An Overview of Techniques and Technologies. Annals of Information Systems, 2016, , 79-94.	0.5	13
124	Ambient and smartphone sensor assisted ADL recognition in multi-inhabitant smart environments. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 1-19.	4.9	99
125	Multi-objective fractional artificial bee colony algorithm to energy aware routing protocol in wireless sensor network. Wireless Networks, 2016, 22, 1461-1474.	3.0	110
126	Towards an EEG-based brain-computer interface for online robot control. Multimedia Tools and Applications, 2016, 75, 7999-8017.	3.9	23
127	A Rule-based Service Customization Strategy for Smart Home Context-Aware Automation. IEEE Transactions on Mobile Computing, 2016, 15, 558-571.	5.8	35
128	LEACH-MAC: a new cluster head selection algorithm for Wireless Sensor Networks. Wireless Networks, 2016, 22, 49-60.	3.0	125

#	ARTICLE	IF	CITATIONS
129	An architecture for (m, k)-firm real-time streams in wireless sensor networks. Wireless Networks, 2016, 22, 69-81.	3.0	5
130	Falls as anomalies? An experimental evaluation using smartphone accelerometer data. Journal of Ambient Intelligence and Humanized Computing, 2017, 8, 87-99.	4.9	32
131	Internet of Vehicles for E-Health Applications: A Potential Game for Optimal Network Capacity. IEEE Systems Journal, 2017, 11, 1888-1896.	4.6	23
132	Unsupervised visit detection in smart homes. Pervasive and Mobile Computing, 2017, 34, 157-167.	3.3	23
133	Forecasting behavior in smart homes based on sleep and wake patterns. Technology and Health Care, 2017, 25, 89-110.	1.2	24
134	The Role of Smart Homes in Intelligent Homecare and Healthcare Environments. , 2017, , 345-394.		11
135	Towards Ontological Approach on Trust-Aware Ambient Services. IEEE Access, 2017, 5, 1589-1599.	4.2	20
136	Estimating Heart Rate and Rhythm via 3D Motion Tracking in Depth Video. IEEE Transactions on Multimedia, 2017, 19, 1625-1636.	7.2	31
137	Push Notifications in Diet Apps: Influencing Engagement Times and Tasks. International Journal of Human-Computer Interaction, 2017, , .	4.8	14
138	Push Notifications in Diet Apps: Influencing Engagement Times and Tasks. International Journal of Human-Computer Interaction, 2017, 33, 833-845.	4.8	26
139	NFC based dataset annotation within a behavioral alerting platform. , 2017, , .		4
140	An evidence-based risk-oriented V-model methodology to develop ambient intelligent medical software. Journal of Reliable Intelligent Environments, 2017, 3, 41-53.	5.2	9
141	Performance Evaluation of an Aml Testbed for Improving QoL: Evaluation Using Clustering Approach Considering Distributed Concurrent Processing., 2017,,.		11
142	Personal Sensing: Understanding Mental Health Using Ubiquitous Sensors and Machine Learning. Annual Review of Clinical Psychology, 2017, 13, 23-47.	12.3	510
143	Detecting falls with X-Factor Hidden Markov Models. Applied Soft Computing Journal, 2017, 55, 168-177.	7.2	25
144	Consumers' perceived attitudes to wearable devices in health monitoring in China: A survey study. Computer Methods and Programs in Biomedicine, 2017, 140, 131-137.	4.7	53
145	A model for optimal service allocation in a smart environment. Pervasive and Mobile Computing, 2017, 42, 45-57.	3.3	2
146	How to Become a Smart Patient in the Era of Precision Medicine?. Advances in Experimental Medicine and Biology, 2017, 1028, 1-16.	1.6	15

#	Article	IF	CITATIONS
147	Activity Model for Interactive Micro Context-Aware Well-Being Applications Based on ContextAA. Lecture Notes in Computer Science, 2017, , 99-111.	1.3	1
148	Advanced internet of things for personalised healthcare systems: A survey. Pervasive and Mobile Computing, 2017, 41, 132-149.	3.3	291
149	Research Challenges in BAN Due to the Mixed WSN Features: Some Perspectives and Future Directions. IEEE Sensors Journal, 2017, 17, 5759-5766.	4.7	14
150	Performance evaluation of a QoS-aware error control scheme for multiple-WBAN environment. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, S146-S157.	1.4	7
151	An efficient fuzzy rule-based big data analytics scheme for providing healthcare-as-a-service. , 2017, , .		13
152	QoS in Body Area Networks. ACM Transactions on Sensor Networks, 2017, 13, 1-46.	3.6	22
153	Smart Environments: What is it and Why Should We Care?. KI - Kunstliche Intelligenz, 2017, 31, 231-237.	3.2	11
154	Preservation of temporal privacy in body sensor networks. Journal of Network and Computer Applications, 2017, 96, 62-71.	9.1	7
155	Smart Cities: A Survey on Data Management, Security, and Enabling Technologies. IEEE Communications Surveys and Tutorials, 2017, 19, 2456-2501.	39.4	383
156	A Robust Architectural Framework for Big Data Stream Computing in Personal Healthcare Real Time Analytics. , 2017, , .		11
157	Complex behavioral pattern mining in non-intrusive sensor-based smart homes using an intelligent activity inference engine. Journal of Reliable Intelligent Environments, 2017, 3, 99-116.	5.2	14
158	Exploring ARM mbed support for transient computing in energy harvesting IoT systems. , 2017, , .		6
159	A Multi-Agent System for Acquired Brain Injury rehabilitation in Ambient Intelligence environments. Neurocomputing, 2017, 231, 11-18.	5.9	20
160	Quality attributes and quality models for ambient assisted living software systems: A systematic mapping. Information and Software Technology, 2017, 82, 121-138.	4.4	48
161	Majority-consensus fusion approach for elderly IoT-based healthcare applications. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 157-171.	2.5	12
162	Delta Features From Ambient Sensor Data are Good Predictors of Change in Functional Health. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 986-993.	6.3	24
163	Unsupervised illness recognition via in-home monitoring by depth cameras. Pervasive and Mobile Computing, 2017, 38, 166-187.	3.3	9
164	Context-Aware System Design for Remote Health Monitoring: An Application to Continuous Edema Assessment. IEEE Transactions on Mobile Computing, 2017, 16, 2159-2173.	5.8	17

#	Article	IF	CITATIONS
165	Analysis of Home Health Sensor Data. , 2017, , 301-313.		0
166	Cross-Layer Design and Performance Analysis of Quality of Service Control Scheme for Wireless Body Area Networks. IEEE Access, 2017, 5, 22462-22470.	4.2	6
167	Quality of Context Evaluating Approach in AAL Environment Using IoT Technology., 2017,,.		12
168	Improved Multi-user Interaction in a Smart Environment Through a Preference-Based Conflict Resolution Virtual Assistant. , 2017, , .		7
169	Towards adaptive control in smart homes: Overall system design and initial evaluation of activity recognition. , $2017$ , , .		0
170	Tactile localization in mm-WAVE systems: Channel measurements requirements, challenges and opportunities. , 2017, , .		1
171	Design and evaluation of an ambient intelligence testbed for improving quality of life. International Journal of Space-Based and Situated Computing, 2017, 7, 8.	0.2	14
172	Classification of Alzheimer's Patients through Ubiquitous Computing. Sensors, 2017, 17, 1679.	3.8	8
173	A Visual Analytics Approach for Detecting and Understanding Anomalous Resident Behaviors in Smart Healthcare. Applied Sciences (Switzerland), 2017, 7, 254.	2.5	17
174	Internet of things (IoT)., 2017,,.		37
175	Towards the Development of Smart Spaces-Based Socio-Cyber-Medicine Systems. International Journal of Embedded and Real-Time Communication Systems, 2017, 8, 45-63.	0.5	20
176	Unobtrusive and Continuous Monitoring of Alcohol-impaired Gait Using Smart Shoes. Methods of Information in Medicine, 2017, 56, 74-82.	1.2	21
177	Based on Real Time Remote Health Monitoring Systems: A New Approach for Prioritization "Large Scales Data―Patients with Chronic Heart Diseases Using Body Sensors and Communication Technology. Journal of Medical Systems, 2018, 42, 69.	3.6	90
178	Mymemory: A mobile memory assistant for people with traumatic brain injury. International Journal of Human Computer Studies, 2018, 117, 4-19.	<b>5.</b> 6	18
179	Eventâ€driven system for fall detection using bodyâ€worn accelerometer and depth sensor. IET Computer Vision, 2018, 12, 48-58.	2.0	20
180	A sensor-based wrist pulse signal processing and lung cancer recognition. Journal of Biomedical Informatics, 2018, 79, 107-116.	4.3	53
181	The role of Information and Communication Technologies in healthcare: taxonomies, perspectives, and challenges. Journal of Network and Computer Applications, 2018, 107, 125-154.	9.1	256
182	Everything You Wanted to Know about Smart Health Care: Evaluating the Different Technologies and Components of the Internet of Things for Better Health. IEEE Consumer Electronics Magazine, 2018, 7, 18-28.	2.3	223

#	Article	IF	CITATIONS
183	Using Smart City Technology to Make Healthcare Smarter. Proceedings of the IEEE, 2018, 106, 708-722.	21.3	120
184	Based Real Time Remote Health Monitoring Systems: A Review on Patients Prioritization and Related "Big Data" Using Body Sensors information and Communication Technology. Journal of Medical Systems, 2018, 42, 30.	3.6	154
185	An energy and link aware next node selection protocol for body area networks. , 2018, , .		4
186	An accurate AOA localization method based on unreliable sensor detection., 2018,,.		5
187	Implementation and evaluation of an ambient intelligence testbed. International Journal of Web Information Systems, 2018, 14, 123-135.	2.4	2
188	MyoVibe. ACM Transactions on Sensor Networks, 2018, 14, 1-26.	3.6	4
189	Smart environments in the health context, self-management and data protection in the STARR project. International Review of Law, Computers and Technology, 2018, 32, 174-189.	1.2	0
190	Automatic assessment of functional health decline in older adults based on smart home data. Journal of Biomedical Informatics, 2018, 81, 119-130.	4.3	62
191	Human motion monitoring in sports using wearable graphene-coated fiber sensors. Sensors and Actuators A: Physical, 2018, 274, 132-140.	4.1	73
192	A Self-Adaptive Sleep/Wake-Up Scheduling Approach for Wireless Sensor Networks. IEEE Transactions on Cybernetics, 2018, 48, 979-992.	9.5	97
193	Activity inference engine for real-time cognitive assistance in smart environments. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 679-698.	4.9	15
194	Implementation of an Actor Node for an Ambient Intelligence Testbed Considering Bed Temperature and Room Lighting: Its Effects on Human Sleeping Condition. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 73-81.	0.7	0
195	Framework of Temporal Data Stream Mining by Using Incrementally Optimized Very Fast Decision Forest. Studies in Big Data, 2018, , 483-502.	1.1	1
196	Smartphone-Oriented Development of Video Data Based Services. , 2018, , .		3
197	An Overview on Real-Time Constraints for Ambient Intelligence (AmI)., 2018,,.		1
198	Ambient Assisted Working Applications. , 2018, , 81-99.		2
199	Unifying and Analysing Activities of Daily Living in Extra Care Homes. , 2018, , .		8
200	An Enhanced Approach of an Intelligent Model of Home Support for People with Loss of Autonomy. , 2018, , .		0

#	ARTICLE	IF	Citations
201	Performance Evaluation of a Quality of Service Control Scheme in Multi-Hop WBAN Based on IEEE 802.15.6. Sensors, 2018, 18, 3969.	3.8	11
202	A smartphoneâ€based teleconsultation system for the management of chronic pressure injuries. Wound Repair and Regeneration, 2018, 26, S19-S26.	3.0	7
203	Detection Scheme of Selfish Node in WBAN Utilizing CSMA/CA Based on IEEE 802.15.6. , 2018, , .		1
204	Long-term behavior change detection approach through objective technological observations toward better adaptation of services for elderly people. Health and Technology, 2018, 8, 329-340.	3.6	9
205	Towards Human Activity Recognition: A Hierarchical Feature Selection Framework. Sensors, 2018, 18, 3629.	3.8	32
206	Activity Recognition in New Smart Home Environments. , 2018, , .		7
207	Big Data Analytics for Healthcare System. SSRN Electronic Journal, 0, , .	0.4	4
208	Recognizing multi-resident activities in non-intrusive sensor-based smart homes by formal concept analysis. Neurocomputing, 2018, 318, 75-89.	5.9	22
209	Empowering healthcare IoT systems with hierarchical edge-based deep learning. , 2018, , .		52
210	Abnormality Detection in Human based on Hybrid Model - NB3 AkMGA. , 2018, , .		0
211	Artificial intelligence: A joint narrative on potential use in pediatric stem and immune cell therapies and regenerative medicine. Transfusion and Apheresis Science, 2018, 57, 422-424.	1.0	32
212	Computer Vision for Ambient Assisted Living. , 2018, , 147-182.		9
213	Multi-layered Functional Analysis for Smart Homes Design. Procedia, Social and Behavioral Sciences, 2018, 238, 114-123.	0.5	2
214	Real-Time Fault-Tolerant mHealth System: Comprehensive Review of Healthcare Services, Opens Issues, Challenges and Methodological Aspects. Journal of Medical Systems, 2018, 42, 137.	3.6	84
215	Requirement Analysis and Implementation of Smart Emergency Medical Services. IEEE Access, 2018, 6, 42022-42029.	4.2	23
216	Smart medical beds in patient-care environments of the twenty-first century: a state-of-art survey. BMC Medical Informatics and Decision Making, 2018, 18, 63.	3.0	34
217	Real-Time Remote Health-Monitoring Systems in a Medical Centre: A Review of the Provision of Healthcare Services-Based Body Sensor Information, Open Challenges and Methodological Aspects. Journal of Medical Systems, 2018, 42, 164.	3.6	92
218	Assisted living personal tracker framework. , 2018, , .		1

#	Article	IF	Citations
219	A Context-Aware Indoor Air Quality System for Sudden Infant Death Syndrome Prevention. Sensors, 2018, 18, 757.	3.8	12
220	Ambient Sensors for Elderly Care and Independent Living: A Survey. Sensors, 2018, 18, 2027.	3.8	120
221	The Experience of Developing the UJAml Smart Lab. IEEE Access, 2018, 6, 34631-34642.	4.2	35
222	Smart-phone based system to monitor walking activity: MHealth solution. , 2018, , .		5
223	Smart cities in the era of artificial intelligence and internet of things. , 2018, , .		21
224	Technology-Enabled Assessment of Functional Health. IEEE Reviews in Biomedical Engineering, 2019, 12, 319-332.	18.0	33
225	Identity-Based Encryption with Filtered Equality Test for Smart City Applications. Sensors, 2019, 19, 3046.	3.8	17
226	Seven HCI Grand Challenges. International Journal of Human-Computer Interaction, 2019, 35, 1229-1269.	4.8	273
227	Intelligent energy-efficient healthcare models integrated with IoT and LoRa network., 2019, , 157-174.		2
228	Computer Vision-Based Unobtrusive Physical Activity Monitoring in School by Room-Level Physical Activity Estimation: A Method Proposition. Information (Switzerland), 2019, 10, 269.	2.9	9
229	Effect of Values and Technology Use on Exercise., 2019,,.		7
230	Multi-objective routing aware of mixed IoT traffic for low-cost wireless Backhauls. Journal of Internet Services and Applications, $2019,10,10$	2.1	6
231	Multi-Source Data Sensing in Mobile Personalized Healthcare Systems: Semantic Linking and Data Mining. , 2019, , .		10
232	A Survey on Information and Communication Technologies for Industry 4.0: State-of-the-Art, Taxonomies, Perspectives, and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 3467-3501.	39.4	216
233	Potential of Augmented Reality and Virtual Reality Technologies to Promote Wellbeing in Older Adults. Applied Sciences (Switzerland), 2019, 9, 3556.	2.5	77
234	IoT-based Architectures for Sensing and Local Data Processing in Ambient Intelligence: Research and Industrial Trends., 2019,,.		15
235	Internet of Things Architectures, Technologies, Applications, Challenges, and Future Directions for Enhanced Living Environments and Healthcare Systems: A Review. Electronics (Switzerland), 2019, 8, 1081.	3.1	103
236	A Survey of Healthcare Monitoring Systems for Chronically III Patients and Elderly. Journal of Medical Systems, 2019, 43, 50.	3.6	30

#	Article	IF	CITATIONS
237	IoT-Based Ambient Intelligence Microcontroller for Remote Temperature Monitoring. Computer Communications and Networks, 2019, , 177-200.	0.8	2
238	Cognitive Smart Cities and Deep Learning: A Classification Framework. , 2019, , .		4
239	Systematic research on vocal art performance and human voice science based on wireless sensors. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6047-6054.	1.4	0
240	Real-Time Remote-Health Monitoring Systems: a Review on Patients Prioritisation for Multiple-Chronic Diseases, Taxonomy Analysis, Concerns and Solution Procedure. Journal of Medical Systems, 2019, 43, 223.	3.6	101
241	Privacy-aware environmental sound classification for indoor human activity recognition. , 2019, , .		10
242	Smart cities survey: Technologies, application domains and challenges for the cities of the future. International Journal of Distributed Sensor Networks, 2019, 15, 155014771985398.	2.2	143
243	ALTRIRAS: A Computer Game for Training Children with Autism Spectrum Disorder in the Recognition of Basic Emotions. International Journal of Computer Games Technology, 2019, 2019, 1-16.	2.5	21
244	PhisioStream: on the use of general-purpose log management and streams processing software stacks for first-responders monitoring. , 2019, , .		0
245	Avoiding Data Corruption in Drop Computing Mobile Networks. IEEE Access, 2019, 7, 31170-31185.	4.2	12
246	Surveying Human Habit Modeling and Mining Techniques in Smart Spaces. Future Internet, 2019, 11, 23.	3.8	13
247	Smart Monitoring of User and Home Environment: The Health@Home Acquisition Framework. Lecture Notes in Electrical Engineering, 2019, , 23-37.	0.4	3
248	Towards a Deeper Understanding of the Behavioural Implications of Bidirectional Activity-Based Ambient Displays in Ambient Assisted Living Environments. Lecture Notes in Computer Science, 2019, , 108-151.	1.3	5
249	IOT based Remote Heartbeat Monitoring. , 2019, , .		10
250	Ambulatory Smoking Habits Investigation based on Physiology and Context (ASSIST) using wearable sensors and mobile phones: protocol for an observational study. BMJ Open, 2019, 9, e028284.	1.9	6
251	A Cloud-based Middleware for Self-Adaptive IoT-Collaboration Services. Sensors, 2019, 19, 4559.	3.8	10
252	The Internet of Things: A Review of Enabled Technologies and Future Challenges. IEEE Access, 2019, 7, 7606-7640.	4.2	152
253	Ambient Intelligence in Systems to Support Wellbeing of Drivers. Computer Communications and Networks, 2019, , 217-247.	0.8	5
254	Trust Management Techniques for the Internet of Things: A Survey. IEEE Access, 2019, 7, 29763-29787.	4.2	146

#	ARTICLE	IF	CITATIONS
255	Smartwatch-Based Application for Enhanced Healthy Lifestyle in Indoor Environments. Advances in Intelligent Systems and Computing, 2019, , 168-177.	0.6	13
256	Future of Big Data and Deep Learning for Wireless Body Area Networks. SpringerBriefs in Computer Science, 2019, , 53-77.	0.2	9
257	Biometric Security and Internet of Things (IoT)., 2019,, 477-509.		25
258	Toward a Heterogeneous Mist, Fog, and Cloud-Based Framework for the Internet of Healthcare Things. IEEE Internet of Things Journal, 2019, 6, 4049-4062.	8.7	150
259	Artificial Intelligence Integration for Neurodegenerative Disorders. , 2019, , 77-89.		8
260	An approach to provide dynamic, illustrative, video-based guidance within a goal-driven smart home. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 3045-3056.	4.9	4
261	Context-aware solutions for asthma condition management: a survey. Universal Access in the Information Society, 2020, 19, 571-593.	3.0	8
262	Developing and Organizing an Analytics Capability for Patient Flow in a General Hospital. Information Systems Frontiers, 2020, 22, 353-364.	6.4	10
263	Positive technology for elderly well-being: A review. Pattern Recognition Letters, 2020, 137, 61-70.	4.2	55
264	QoS and QoE Enhanced Resource Allocation for Wireless Video Sensor Networks Using Hybrid Optimization Algorithm. International Journal of Parallel Programming, 2020, 48, 192-212.	1.5	2
265	AGE: authentication in gadget-free healthcare environments. Information Technology and Management, 2020, 21, 95-114.	2.4	18
266	Ambient Intelligence for Patient-Centric Healthcare Delivery: Technologies, Framework, and Applications. Lecture Notes in Networks and Systems, 2020, , 223-254.	0.7	3
267	Link quality and energy utilization based preferable next hop selection routing for wireless body area networks. Computer Communications, 2020, 149, 382-392.	5.1	74
268	P5 eHealth: An Agenda for the Health Technologies of the Future. , 2020, , .		21
269	Evaluation of Home-Based Rehabilitation Sensing Systems with Respect to Standardised Clinical Tests. Sensors, 2020, 20, 26.	3.8	8
270	Smart Cities for Sustainability - An Analytical Perspective. , 2020, , .		8
271	ADAPT: Approach to Develop context-Aware solutions for Personalised asthma managemenT. Journal of Biomedical Informatics, 2020, 111, 103586.	4.3	6
272	Multi-Biological Laboratory Examination Framework for the Prioritization of Patients with COVID-19 Based on Integrated AHP and Group VIKOR Methods. International Journal of Information Technology and Decision Making, 2020, 19, 1247-1269.	3.9	81

#	Article	IF	CITATIONS
273	Internet of Things for Smart Spaces: A University Campus Case Study. Sensors, 2020, 20, 3716.	3.8	19
274	Intelligent Calibration and Virtual Sensing for Integrated Low-Cost Air Quality Sensors. IEEE Sensors Journal, 2020, 20, 13638-13652.	4.7	63
275	Performance analysis of wireless sensor networks for nuclear medicine applications. Journal of Radiation Research and Applied Sciences, 2020, 13, 714-720.	1.2	4
276	Convolutional Neural Network Classifier with Fuzzy Feature Representation for Human Activity Modelling. , 2020, , .		3
277	Illuminating the dark spaces of healthcare with ambient intelligence. Nature, 2020, 585, 193-202.	27.8	139
278	AnAbEL: towards empowering people living with dementia in ambient assisted living. Universal Access in the Information Society, 2022, 21, 457-476.	3.0	8
279	Back to the future: five forgotten lessons for the healthcare managers of today. International Journal for Quality in Health Care, 2020, 32, 275-277.	1.8	6
280	Purchase and use of home healthcare devices for the elderly: a pilot study in Shanghai, China. BMC Public Health, 2020, 20, 615.	2.9	2
281	Intelligent Personalized Abnormality Detection for Remote Health Monitoring. International Journal of Intelligent Information Technologies, 2020, 16, 87-109.	0.8	6
282	Internet of things-inspired healthcare system for urine-based diabetes prediction. Artificial Intelligence in Medicine, 2020, 107, 101913.	6.5	40
284	Healthcare informatics and analytics in big data. Expert Systems With Applications, 2020, 152, 113388.	7.6	37
285	A novel framework for quality care in assisting chronically impaired patients with ubiquitous computing and ambient intelligence technologies. , 2020, , 61-79.		2
286	Intelligent sensor network., 2020,, 137-173.		1
287	Fundamental Issues of Future Internet of Things. , 2020, , .		4
288	Industry 4.0 and Health: Internet of Things, Big Data, and Cloud Computing for HealthcareÂ4.0. Journal of Industrial Information Integration, 2020, 18, 100129.	6.4	365
289	Artificial Intelligence in Medicine: Today and Tomorrow. Frontiers in Medicine, 2020, 7, 27.	2.6	291
290	The increasing value of eHealth in the delivery of patient-centred cancer care. Lancet Oncology, The, 2020, 21, e240-e251.	10.7	162
291	Pilot Site Deployment of an IoT Solution for Older Adults' Early Behavior Change Detection. Sensors, 2020, 20, 1888.	3.8	10

#	Article	IF	Citations
292	Analyzing the Effectiveness and Contribution of Each Axis of Tri-Axial Accelerometer Sensor for Accurate Activity Recognition. Sensors, 2020, 20, 2216.	3.8	83
293	Health and wellness monitoring using ambient sensor networks. Journal of Ambient Intelligence and Smart Environments, 2020, 12, 139-151.	1.4	11
294	Reliable Real-Time Operating System for IoT Devices. IEEE Internet of Things Journal, 2021, 8, 3705-3716.	8.7	7
295	Detection-based prioritisation: Framework of multi-laboratory characteristics for asymptomatic COVID-19 carriers based on integrated Entropy–TOPSIS methods. Artificial Intelligence in Medicine, 2021, 111, 101983.	6.5	82
296	A new health care system enabled by machine intelligence: Elderly people's trust or losing self control. Technological Forecasting and Social Change, 2021, 162, 120334.	11.6	63
297	Activities of Daily Living Recognition With Binary Environment Sensors Using Deep Learning: A Comparative Study. IEEE Sensors Journal, 2021, 21, 5423-5433.	4.7	21
298	IoT-based telemedicine for disease prevention and health promotion: State-of-the-Art. Journal of Network and Computer Applications, 2021, 173, 102873.	9.1	141
299	HierHAR: Sensor-Based Data-Driven Hierarchical Human Activity Recognition. IEEE Sensors Journal, 2021, 21, 3353-3365.	4.7	16
300	POLARIS: Probabilistic and Ontological Activity Recognition in Smart-Homes. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 209-223.	5.7	16
301	Ambient Intelligence. , 2021, , 223-235.		0
302	Detecting COVID-19 Utilizing Probabilistic Graphical Models. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.7	1
303	Flowing Technologies: The Role of Flow and Related Constructs in Human-Computer Interaction. , 2021, , 393-416.		9
304	Smart Cities in the Era of Artificial Intelligence and Internet of Things: Promises and Challenges. Public Administration and Information Technology, 2021, , 259-288.	1.1	5
305	Detecting Anomaly and Its Sources in Activities of Daily Living. SN Computer Science, 2021, 2, 1.	3.6	13
306	Information and Communication Technologies for Managing Frailty: A Systematic Literature Review. , 2021, 12, 914.		9
307	Wearable Internet of Things for Personalized Healthcare: Study of Trends and Latent Research. Studies in Computational Intelligence, 2021, , 43-60.	0.9	10
308	User Interfaces in Smart Cities. , 2021, , 1-33.		4
309	Tuatara: Location-Driven Power-Adaptive Communication for Wireless Body Area Networks. IEEE Transactions on Mobile Computing, 2023, 22, 574-588.	5.8	3

#	Article	IF	CITATIONS
310	Organ Simulation and Healthcare Services: An Application of IoT., 2021,,.		9
311	Directing and Orienting ICT Healthcare Solutions to Address the Needs of the Aging Population. Healthcare (Switzerland), 2021, 9, 147.	2.0	28
312	An approach using Trust Management with Next-Generation IoT Networks for Healthcare, Agriculture and Sustainable Development Goals. Shanghai Ligong Daxue Xuebao/Journal of University of Shanghai for Science and Technology, 2021, 23, .	0.1	0
313	Towards a Selection and Acquisition Method for IoT Devices Oriented to Older People in Ecuador. , 2021, , .		0
314	Construction of first-class university course based on artificial intelligence and neural network algorithm. Journal of Intelligent and Fuzzy Systems, 2021, 40, 6719-6730.	1.4	5
315	Reliable Deep Learning–Based Detection of Misplaced Chest Electrodes During Electrocardiogram Recording: Algorithm Development and Validation. JMIR Medical Informatics, 2021, 9, e25347.	2.6	6
316	Unobtrusive Sensors for the Assessment of Older Adult's Frailty: A Scoping Review. Sensors, 2021, 21, 2983.	3.8	1
317	A Survey of Ambient Intelligence. ACM Computing Surveys, 2022, 54, 1-27.	23.0	22
318	Privacy-Preserving Learning of Human Activity Predictors in Smart Environments. , 2021, , .		4
319	Improving Health Risks Prediction Mechanism in Cloud Using RT-TKRIBC Technique. , 2021, , .		0
320	Detection of realâ€life activities by a triâ€axial accelerometer worn at different body locations: Analysis and interpretation. Diabetic Medicine, 2021, 38, e14609.	2.3	1
321	Physical Activity Recognition Based on a Parallel Approach for an Ensemble of Machine Learning and Deep Learning Classifiers. Sensors, 2021, 21, 4713.	3.8	5
322	A Novel Sleep Scoring Algorithm-Based Framework and Sleep Pattern Analysis Using Machine Learning Techniques. International Journal of System Dynamics Applications, 2021, 10, 1-20.	0.3	0
323	Development of IoT-based mhealth framework for various cases of heart disease patients. Health and Technology, 2021, 11, 1013-1033.	3.6	31
324	Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. IEEE Internet of Things Journal, 2021, 8, 10953-10962.	8.7	23
325	Estimating Indoor Occupancy Through Low-Cost BLE Devices. IEEE Sensors Journal, 2021, 21, 17053-17063.	4.7	22
326	Fog-based healthcare systems: A systematic review. Multimedia Tools and Applications, 2021, 80, 36361-36400.	3.9	20
327	Evaluation of E-health Innovations towards Public Health in Izmir, Turkey. American Journal of Medical Sciences and Medicine, 2021, 9, 75-81.	0.2	1

#	Article	IF	CITATIONS
328	On the Characterization and Risk Assessment of Al-Powered Mobile Cloud Applications. Computer Standards and Interfaces, 2021, 78, 103538.	5.4	2
329	Causes of Delay in Smart and Complex Construction Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2021, 13, .	1.4	4
330	User Interfaces in Smart Cities. , 2021, , 687-719.		0
331	DOLARS, a Distributed On-Line Activity Recognition System by Means of Heterogeneous Sensors in Real-Life Deployments—A Case Study in the Smart Lab of The University of AlmerÃa. Sensors, 2021, 21, 405.	3.8	12
332	IoT applications in translational bioinformatics. , 2021, , 69-79.		4
333	Body Area Network (BAN) for Healthcare by Wireless Mesh Network (WMN). EAI/Springer Innovations in Communication and Computing, 2019, , 1-17.	1.1	3
334	Design of a Deep Q-Network Based Simulation System for Actuation Decision in Ambient Intelligence. Advances in Intelligent Systems and Computing, 2019, , 362-370.	0.6	18
335	A Human-in-The-Loop Context-Aware System Allowing the Application of Case-Based Reasoning for Asthma Management. Lecture Notes in Computer Science, 2019, , 125-140.	1.3	3
337	Cities for All Ages: Singapore Use Case. Communications in Computer and Information Science, 2019, , 251-258.	0.5	2
338	Human Activities Recognition Using Accelerometer and Gyroscope. Lecture Notes in Computer Science, 2019, , 357-362.	1.3	11
339	The Application of Artificial Intelligence Technology in Healthcare: A Systematic Review. Communications in Computer and Information Science, 2020, , 248-261.	0.5	15
340	Modelling Naturalistic Work Stress Using Spectral HRV Representations and Deep Learning. Advances in Intelligent Systems and Computing, 2020, , 267-277.	0.6	1
341	Internet of Things for Enhanced Living Environments, Health and Well-Being: Technologies, Architectures and Systems. Advances in Intelligent Systems and Computing, 2020, , 616-631.	0.6	5
342	Proposal and Experimental Results of an Ambient Intelligence for Training on Soldering Iron Holding. Lecture Notes in Networks and Systems, 2021, , 444-453.	0.7	18
343	Automatic Summarization of Activities Depicted in Instructional Videos by Use of Speech Analysis. Lecture Notes in Computer Science, 2014, , 123-130.	1.3	7
344	A Mechanism for Nominating Video Clips to Provide Assistance for Instrumental Activities of Daily Living. Lecture Notes in Computer Science, 2015, , 65-76.	1.3	3
345	A Real-Time Intelligent System for Tracking Patient Condition. Lecture Notes in Computer Science, 2015, , 91-97.	1.3	9
346	Fall Detection Using Body-Worn Accelerometer and Depth Maps Acquired by Active Camera. Lecture Notes in Computer Science, 2016, , 414-426.	1.3	4

#	Article	IF	CITATIONS
347	Making Smart Applications Smarter. Understanding Complex Systems, 2016, , 463-471.	0.6	2
349	Internet of Things Meets Mobile Health Systems in Smart Spaces: An Overview. Studies in Big Data, 2017, , 111-129.	1.1	24
350	Robotic Building as Integration of Design-to-Robotic-Production and -Operation. Springer Series in Adaptive Environments, $2018$ , , $97-120$ .	0.3	10
351	Collaborative Systems for Smart Environments: Trends and Challenges. Lecture Notes in Computer Science, 2014, , 3-15.	1.3	9
352	Artificial intelligence and robotics in rehabilitation, 2019, , 507-520.		15
353	Beyond "Assistive"., 2020,,.		2
354	SCRHM: A Secure Continuous Remote Health Monitoring System. International Journal of Distributed Sensor Networks, 2015, 11, 392439.	2.2	5
355	Smart Firefighting Clothing. , 2018, , 307-328.		1
356	Detecting Parkinson's disease from sustained phonation and speech signals. PLoS ONE, 2017, 12, e0185613.	2.5	69
357	Multimodal Human and Environmental Sensing for Longitudinal Behavioral Studies in Naturalistic Settings: Framework for Sensor Selection, Deployment, and Management. Journal of Medical Internet Research, 2019, 21, e12832.	4.3	25
358	Ubiquitous healthcare on smart environments: A systematic mapping study. Journal of Ambient Intelligence and Smart Environments, 2020, 12, 513-529.	1.4	9
359	E-Health. Advances in Electronic Government, Digital Divide, and Regional Development Book Series, 0, , 302-326.	0.2	9
360	Fuzzy-Topsis-Based Cluster Head Selection in Mobile Wireless Sensor Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2017, , 312-343.	0.4	2
361	Social Telerehabilitation. , 2018, , 5930-5940.		3
362	Ambient Assisted Living and Internet of Things. Advances in Computer and Electrical Engineering Book Series, 2019, , 100-115.	0.3	33
363	Cloud Based Wireless Infrastructure for Health Monitoring. , 2020, , 34-55.		3
364	Fuzzy-Topsis-Based Cluster Head Selection in Mobile Wireless Sensor Networks., 2020,, 596-627.		3
365	Behavioural Intention of Customers Towards Smartwatches in an Ambient Environment Using Soft Computing. International Journal of Ambient Computing and Intelligence, 2020, 11, 80-111.	1.1	7

#	Article	IF	Citations
366	Using Cloud-assisted Body Area Networks to Track People Physical Activity in Mobility. , 2015, , .		14
367	Marketing Management for Consumer Products in the Era of the Internet of Things. Advances in Internet of Things, 2017, 07, 47-70.	2.2	24
368	Wireless Body Area Network: An Overview and Various Applications. Journal of Computer and Communications, 2017, 05, 53-64.	0.9	57
369	AAL in Anwendungsszenarien. , 2021, , 67-145.		0
370	User-Centered Approaches to Context Awareness: Prospects and Challenges. , 2014, , 221-236.		1
371	Analysis of Home Health Sensor Data. , 2014, , 1-10.		0
372	An Approach for Agitation Detection and Intervention in Sufferers of Autism Spectrum Disorder. Lecture Notes in Computer Science, 2015, , 139-145.	1.3	1
373	Artificial Immune System - A New Approach for the Long-Term Data Monitoring in Ambient Assisted Living. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 41-50.	0.3	0
374	Assistive Technology for Risks Affecting Elderly People in Outdoor Environment., 2015,,.		1
376	Requirements Engineering of Ambient Assisted Living Technologies for People with Alzheimer's. Communications in Computer and Information Science, 2015, , 381-387.	0.5	1
377	Quality of Service and Radio Management in Biomedical Wireless Sensor Networks. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2016, , 704-725.	0.5	0
378	Towards an Architecture for a Scalable and Collaborative Aml Environment. Advances in Intelligent Systems and Computing, 2016, , 311-323.	0.6	0
379	Modeling Work Stress Using Heart Rate and Stress Coping Profiles. Lecture Notes in Computer Science, 2016, , 108-118.	1.3	0
380	dtFall Decision-Theoretic Framework to Report Unseen Falls. , 2016, , .		1
381	An Improvisation Based Framework for Interactive Urban Environments. Lecture Notes in Computer Science, 2016, , 439-449.	1.3	0
382	Modular IoT Platform for AAL and Home Care Using Bluetooth Low Energy. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 132-137.	0.3	0
383	loT for Ambient Assisted Living. Advances in Medical Technologies and Clinical Practice Book Series, 2017, , 66-97.	0.3	0
384	Modelling Patient-Centric Healthcare Using Socially Intelligent Systems: The AVICENA Experience. Lecture Notes in Computer Science, 2017, , 22-41.	1.3	0

#	Article	IF	Citations
385	Digital Senses and Cognitive Assistance. , 2017, , 37-55.		O
386	Intelligent Smartphone Audiometry. Advances in Intelligent Systems and Computing, 2017, , 112-120.	0.6	0
387	Activity Signatures in Smart IoT Environments. Lecture Notes in Computer Science, 2017, , 72-76.	1.3	1
388	Implementation of an Actor Node for an Ambient Intelligence Testbed: Evaluation and Effects of Actor Node on Human Sleeping Condition. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 98-106.	0.7	0
389	A Fuzzy-Based System for Actor Node inÂanÂAmbient Intelligence Testbed: EffectsÂofÂDifferent Parameters on Human Sleeping Conditions. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 682-690.	0.7	1
390	AIDE-VR: Extending a Virtual Living Lab Framework Using Virtual Reality. Communications in Computer and Information Science, 2018, , 270-281.	0.5	0
391	IoT for Ambient Assisted Living. , 2018, , 161-187.		1
392	Quality of Service and Radio Management in Biomedical Wireless Sensor Networks. , 2018, , 357-378.		0
393	Application of Fuzzy Logic for Improving Human Sleeping Conditions inÂanÂAmbient Intelligence Testbed. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 41-50.	0.7	0
394	Intelligent Joystick Sensing the User's Emotion and Providing Biofeedback. , 0, , .		0
395	Pseudonym and Key Management Scheme for Supporting Social Smart Applications. IEICE Transactions on Communications, 2018, E101.B, 1775-1786.	0.7	2
396	A Fuzzy-Based System for Safe Driving Information in VANETs. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 648-658.	0.7	1
397	Establishing an Analytics Capability in a Hospital. IFIP Advances in Information and Communication Technology, 2019, , 3-14.	0.7	0
398	Deployment of an IoT Solution for Early Behavior Change Detection. Lecture Notes in Computer Science, 2019, , 27-35.	1.3	2
399	Emerging Case Studies of Ambient Intelligence Services. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 27-54.	0.4	0
400	Digital Signal Processing for Audio Applications: Then, Now and the Future., 2019, , 37-51.		0
401	Biomedical Applications Based on Mobile Phone Cell Network Systems. Xinan Jiaotong Daxue Xuebao/Journal of Southwest Jiaotong University, 2019, 54, .	0.2	1
402	Social Telerehabilitation. Advances in Medical Diagnosis, Treatment, and Care, 2019, , 452-465.	0.1	0

#	Article	IF	CITATIONS
403	SA-EF Cube: An Evaluation Framework for Assessing Intelligent Context-Aware Critical Information Infrastructure Protection Solutions. Communications in Computer and Information Science, 2019, , 115-132.	0.5	0
404	Case-Based Reasoning for Context-Aware Solutions Supporting Personalised Asthma Management. Lecture Notes in Computer Science, 2019, , 260-270.	1.3	1
405	Deep Compact Person Re-Identification with Distractor Synthesis via Guided DC-GANs. Lecture Notes in Computer Science, 2019, , 488-498.	1.3	0
406	Lifelog Generation Based on Informationally Structured Space. Lecture Notes in Computer Science, 2019, , 109-116.	1.3	0
407	Introduction to Ambient Intelligence in Internet of Things Environments and Cyber-Physical Systems. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 1-26.	0.4	0
408	A Data AcquisitionÂand Processing Scheme Based on Edge Calculation. Advances in Intelligent Systems and Computing, 2020, , 216-222.	0.6	0
409	Implementation of a Fuzzy-Based Simulation System and a Testbed for Improving Driving Conditions in VANETs. Advances in Intelligent Systems and Computing, 2020, , 3-12.	0.6	2
410	Implementation of a Fuzzy-Based Simulation System and a Testbed for Improving Driving Conditions in VANETs Considering Drivers's Vital Signs. Advances in Intelligent Systems and Computing, 2020, , 37-48.	0.6	2
414	Internet of Things (IoT) in Healthcare Systems. Advances in Business Information Systems and Analytics Book Series, 2020, , 62-90.	0.4	3
415	Character-loT (CloT): Toward Human-Centered Ubiquitous Computing. Human-computer Interaction Series, 2020, , 99-121.	0.6	0
417	Reinforcement Learning based Node Sleep or Wake-up Time Scheduling Algorithm for Wireless Sensor Network. International Journal of Mathematical, Engineering and Management Sciences, 2020, 5, 707-731.	0.7	6
418	Effect of Driver's Condition for Driving Risk Measurement in VANETs: A Comparison Study of Simulation and Experimental Results. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 102-113.	0.7	0
420	An ANN-Based Approach to Identify Smart Appliances for Ambient Assisted Living (AAL) in the Smart Space. Advances in Intelligent Systems and Computing, 2021, , 113-123.	0.6	1
422	An Efficient Approach towards Enhancing the Performance of m-Health Using Sensor Networks and Cloud Technologies., 2020,, 491-513.		2
424	Ambient Intelligence Systems for the Elderly: A Privacy Perspective. Lecture Notes in Computer Science, 2020, , 875-888.	1.3	0
425	Towards the Development of Smart Spaces-Based Socio-Cyber-Medicine Systems. , 2020, , 395-416.		0
426	Internet of Things–Enabled Technologies for Weight Management in Children and Adolescents: Protocol for a Systematic Review. JMIR Research Protocols, 2020, 9, e16930.	1.0	2
427	SDN-Based Traffic Management for Personalized Ambient Assisted Living Healthcare System. Advances in Intelligent Systems and Computing, 2021, , 379-388.	0.6	6

#	Article	IF	CITATIONS
428	Cloud Based Wireless Infrastructure for Health Monitoring. Advances in Healthcare Information Systems and Administration Book Series, 0, , 19-46.	0.2	2
431	Partnering a Compensatory Application with Activity-Aware Prompting to Improve Use in Individuals with Amnestic Mild Cognitive Impairment: A Randomized Controlled Pilot Clinical Trial. Journal of Alzheimer's Disease, 2022, 85, 73-90.	2.6	8
432	Heat-Resistant, Flexible Piezoelectric Sheet Sensors Based on Solution-Processed Zinc Oxide Films for In-Vehicle Driver Monitoring Applications. ACS Applied Electronic Materials, 2021, 3, 4743-4756.	4.3	2
433	Security, Privacy and Trust Issues in Internet of Things and Machine Learning Based e-Healthcare. , 2022, , 291-317.		12
434	Blockchain-Based Privacy-Aware Contextual Online Learning for Collaborative Edge-Cloud-Enabled Nursing System in Internet of Things. IEEE Internet of Things Journal, 2023, 10, 6703-6717.	8.7	6
435	Decision support systems for home monitoring applications: Classification of activities of daily living and epileptic seizures. , 2016, , 271-291.		0
436	An Efficient Energy Saving Approach for Improving Lifetime of Node in Wireless Sensor Network. International Journal of Engineering Research & Technology, 2020, V9, .	0.2	0
437	Synthetic Exhaled Breath Data-Based Edge Al Model for the Prediction of Chronic Obstructive Pulmonary Disease., 2021,,.		3
438	Amplitude Modeling of Specular Multipath Components for Robust Indoor Localization. Sensors, 2022, 22, 462.	3.8	1
439	Integrating technological solutions into innovative eHealth applications., 2022,, 103-128.		0
440	Ambient intelligence governance review: from service-oriented to self-service. PeerJ Computer Science, 2022, 8, e788.	<b>4.</b> 5	3
441	A Comprehensive Review of Internet of Things: Technology Stack, Middlewares, and Fog/Edge Computing Interface. Sensors, 2022, 22, 995.	3.8	35
442	Data mining and machine learning in cancer survival research: An overview and future recommendations. Journal of Biomedical Informatics, 2022, 128, 104026.	4.3	21
443	Reinforcement Learning in Healthcare: A Survey. ACM Computing Surveys, 2023, 55, 1-36.	23.0	125
444	AUGMENTING CBME CURRICULUM WITH ARTIFICIAL INTELLIGENCE COURSES – A FUTURISTIC APPROACH , 2022, , 46-47.		0
445	Leveraging Machine Learning for WBANs. Communications in Computer and Information Science, 2022, , 38-59.	0.5	1
446	OntoDomus: A Semantic Model for Ambient Assisted Living System Based on Smart Homes. Electronics (Switzerland), 2022, 11, 1143.	3.1	9
447	A Mini-Survey and Feasibility Study of Deep-Learning-Based Human Activity Recognition from Slight Feature Signals Obtained Using Privacy-Aware Environmental Sensors. Applied Sciences (Switzerland), 2021, 11, 11807.	2.5	3

#	Article	IF	CITATIONS
448	Combining Machine Learning With Inductive Logic Learning To Detect Deviations From Daily Routines In Ambient Intelligent Environments. , $2021$ , , .		1
449	A multimodal framework for the evaluation of patients' weaknesses, supporting the design of customised AAL solutions. Expert Systems With Applications, 2022, 202, 117172.	7.6	2
450	Sensors in Hospitals. , 2022, , .		0
451	Intention Recognition With ProbLog. Frontiers in Artificial Intelligence, 2022, 5, 806262.	3.4	1
452	Are Ambient Intelligence and Augmented Reality Two Sides of the Same Coin? Implications for Human-Computer Interaction. , 2022, , .		6
453	Remote monitoring system using Light Fidelity and InfraRed technologies. Computers and Electrical Engineering, 2022, 101, 108073.	4.8	2
454	A Survey of Approaches to Unobtrusive Sensing of Humans. ACM Computing Surveys, 2023, 55, 1-28.	23.0	4
455	Deep CNN-LSTM Network for Indoor Location Estimation Using Analog Signals of Passive Infrared Sensors. IEEE Internet of Things Journal, 2022, 9, 22582-22594.	8.7	14
456	Big data analytics in healthcare. , 2022, , 3-11.		2
458	Ambient and Wearable Sensor Technologies for Energy Expenditure Quantification of Ageing Adults. Sensors, 2022, 22, 4893.	3.8	3
459	A Smart Range Helping Cognitively-Impaired Persons Cooking. Proceedings of the AAAI Conference on Artificial Intelligence, 2014, 28, 2960-2965.	4.9	3
460	Probabilistic data structures in smart city: Survey, applications, challenges, and research directions. Journal of Ambient Intelligence and Smart Environments, 2022, 14, 229-284.	1.4	7
461	Remote Secure eHealth Provision: ETSI SmartBAN as an Enabler. , 2022, , .		0
462	Advancing the cybersecurity of the healthcare system with self-optimising and self-adaptative artificial intelligence (part 2). Health and Technology, 2022, 12, 923-929.	3.6	29
463	Physiologic function of mediastinum space. Annals of Medicine and Surgery, 2022, 82, 104670.	1.1	0
464	Processing Physiological Sensor Data inÂNear Real-Time asÂSocial Signals forÂTheir Use onÂSocial Virtual Reality Platforms. Lecture Notes in Computer Science, 2022, , 44-62.	1.3	1
465	Technology Basics for Telemedicine. Veterinary Clinics of North America - Small Animal Practice, 2022, 52, 1109-1122.	1.5	1
466	Big Data Classification in IOT Healthcare Application Using Optimal Deep Learning. International Journal of Semantic Computing, 2023, 17, 33-58.	0.5	4

#	Article	IF	CITATIONS
467	Classifying simple human activity using synthetic accelerometer data., 2022,,.		0
468	SHPIA: A Low-Cost Multi-purpose Smart Home Platform forÂlntelligent Applications. IFIP Advances in Information and Communication Technology, 2022, , 217-234.	0.7	1
469	Applications of Internet of Things in Telemedicine. , 2022, , 1-25.		0
470	Attention Detection by Heartbeat and Respiratory Features from Radio-Frequency Sensor. Sensors, 2022, 22, 8047.	3.8	1
471	Passive infrared sensor dataset and deep learning models for device-free indoor localization and tracking. Pervasive and Mobile Computing, 2023, 88, 101721.	3.3	6
472	A Comparative Study of Stand-alone and Cloud-Based Fuzzy Logic Systems for Human Fall Detection. International Journal of Fuzzy Systems, 0, , .	4.0	0
473	Systematic Literature Review on Human-Internet of Things (IoT) Interaction in the Era of Ambient Intelligence. Automation, Collaboration, and E-services, 2023, , 431-451.	0.5	0
474	Ubiquitous computing in light of human phenotypes: foundations, challenges, and opportunities. Journal of Ambient Intelligence and Humanized Computing, 0, , .	4.9	0
475	Strategies to reduce visual attention changes while learning and training in extended reality environments. International Journal on Interactive Design and Manufacturing, 2023, 17, 17-43.	2.2	5
476	Bibliometric Analysis of Smart Healthcare. IEEE Systems Journal, 2023, 17, 3993-4001.	4.6	3
477	Personal Health and Illness Management and the Future Vision of Biomedical Clothing Based on WSN. International Journal of Data Warehousing and Mining, 2022, 19, 1-21.	0.6	0
478	Comparison of Feature Extraction Techniques for Ambient Sensor-based In-home Activity Recognition. , 2022, , .		0
479	Machine autonomy for rehabilitation of elderly people: A trade-off between machine intelligence and consumer trust. Journal of Business Research, 2023, 164, 113961.	10.2	2
481	Real-time monitoring of elderly people through computer vision. Artificial Life and Robotics, 2023, 28, 496-501.	1.2	1
482	Context-Aware Medical Systems within Healthcare Environments: A Systematic Scoping Review to Identify Subdomains and Significant Medical Contexts. International Journal of Environmental Research and Public Health, 2023, 20, 6399.	2.6	0
483	The Globe Project: Connecting Internet of Things and E-Health. , 2023, , .		0
484	Towards V-shaped Plasmonic probes made by exploiting 3D printers and UV-cured optical adhesives for Medical applications. , 2023, , .		2
485	Continued Intention of mHealth Care Applications among the Elderly: An Enabler and Inhibitor Perspective. International Journal of Human-Computer Interaction, 0, , 1-16.	4.8	0

#	Article	IF	CITATIONS
486	Applications of Artificial Intelligence Methods in Medicine., 2023,,.		0
487	loT in medical diagnosis: detecting excretory functional disorders for Older adults via bathroom activity change using unobtrusive loT technology. Frontiers in Public Health, 0, $11$ , .	2.7	0
488	Challenges of Artificial Intelligence in Medicine. , 2023, , .		0
489	Hybrid IoT-Edge-Cloud Computing-based Athlete Healthcare Framework: Digital Twin Initiative. Mobile Networks and Applications, 0, , .	3.3	1
490	Smart Healthcare in Sustainable Smart Cities. , 2023, , 195-219.		0
491	Searchable encryption algorithm in computer big data processing application. Automatika, 2023, 64, 1204-1214.	2.0	0
492	Federated Learning forÂHuman Activity Recognition onÂtheÂMHealth Dataset. Lecture Notes in Computer Science, 2023, , 215-225.	1.3	0
493	Context-aware for predicting gestational diabetes using rule – based system. Journal of Physics: Conference Series, 2023, 2580, 012040.	0.4	O
494	Real-Time EEG-Based Emotion Recognition. Sensors, 2023, 23, 7853.	3.8	2
495	Wireless Body Area Networks in Healthcare. , 2023, , 29-40.		0
496	Analysis and Visualization of Published Literature on Healthcare Services Research from 2011 to 2022: a Bibliometric and Network Analysis. , 2023, , .		0
497	Artificial intelligence feasibility in veterinary medicine: A systematic review. Veterinary World, 2023, , 2143-2149.	1.7	0
498	Single-channel, ultraportable, real-time imaging system based on deep learning: a proof-of-concept. , 2023, , .		0
499	SHPIA 2.0: An Easily Scalable, Low-Cost, Multi-purpose Smart Home Platform for Intelligent Applications. SN Computer Science, 2024, 5, .	<b>3.</b> 6	0
500	Leveraging pervasive computing for ambient intelligence: A survey on recent advancements, applications and open challenges. Computer Networks, 2024, 239, 110156.	5.1	0
501	Trust Management Techniques in the Internet of Things. , 2023, , .		0
502	Ambient health sensing on passive surfaces using metamaterials. Science Advances, 2024, 10, .	10.3	0
503	Role of IOT in healthcare: Applications, security & mp; privacy concerns., 2024,,.		0

#	ARTICLE	IF	CITATIONS
504	Tiny Machine Learning (TinyML) Based Self Diagnostic Kit for Respiratory Diseases. , 2023, , .		0
505	Al-based technologies, challenges, and solutions for neurorehabilitation: A systematic mapping. , 2024, , $1 ext{-}25 ext{.}$		0
506	Digitally-defined ultrathin transparent wireless sensor network for room-scale imperceptible ambient intelligence. Npj Flexible Electronics, 2024, 8, .	10.7	0
507	Modelling and Analysis of EV Communication System for Road Safety Applications. , 2023, , .		0
508	IoT-driven automatic vehicle accident rescue system implemented with Proteus. , 2023, , .		0
509	IoT in healthcare: a review of services, applications, key technologies, security concerns, and emerging trends. Multimedia Tools and Applications, 0, , .	3.9	0
510	Sasha. , 2024, 8, 1-38.		0
511	Navigating the landscape: Safeguarding privacy and security in the era of ambient intelligence within healthcare settings., 2024, 2, 100046.		0
512	Studying the Effects of Internet of Things (IoT) Wearables on People's Awareness of Their Own Health. Advances in Computational Intelligence and Robotics Book Series, 2024, , 238-252.	0.4	0