

A Survey on Ambient-Assisted Living Tools for Older Adults

IEEE Journal of Biomedical and Health Informatics

17, 579-590

DOI: [10.1109/jbhi.2012.2234129](https://doi.org/10.1109/jbhi.2012.2234129)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Photometric Calibration of Lens Apertures <xref ref-type="other" rid="fn1-10.5594_J12796">¢</xref>. Journal of the Society of Motion Picture Engineers, 1946, 47, 142-151.	0.2	8
2	The Swing Equation and Its Solution. , 2010, , .		0
3	Progress in Artificial Intelligence. Lecture Notes in Computer Science, 2013, , .	1.0	6
4	Data Mining for Wearable Sensors in Health Monitoring Systems: A Review of Recent Trends and Challenges. Sensors, 2013, 13, 17472-17500.	2.1	338
5	The Fall Detection Method Based on the Wireless Acceleration Sensor. Applied Mechanics and Materials, 0, 475-476, 136-143.	0.2	0
6	Ambient Intelligence. Lecture Notes in Computer Science, 2013, , .	1.0	1
7	M2M Communication in Virtual Sensor Network for SHAAL. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 502 T	0.3	6
8	Development of Robust Behaviour Recognition for an at-Home Biomonitoring Robot with Assistance of Subject Localization and Enhanced Visual Tracking. Scientific World Journal, The, 2014, 2014, 1-22.	0.8	4
9	A low resolution multi-camera system for person tracking. , 2014, , .		16
10	Experience in Evaluating AAL Solutions in Living Labs. Sensors, 2014, 14, 7277-7311.	2.1	22
11	Ambient Assisted Living Healthcare Frameworks, Platforms, Standards, and Quality Attributes. Sensors, 2014, 14, 4312-4341.	2.1	279
12	Seamless Tracing of Human Behavior Using Complementary Wearable and House-Embedded Sensors. Sensors, 2014, 14, 7831-7856.	2.1	50
13	Active In-Database Processing to Support Ambient Assisted Living Systems. Sensors, 2014, 14, 14765-14785.	2.1	13
14	A mobile healthcare solution for ambient assisted living environments. , 2014, , .		18
15	Middleware framework for network virtualization in SHAAL. , 2014, , .		3
16	Longitudinal ambient sensor monitoring for functional health assessments. , 2014, , .		22
17	Digital signature of network segment for healthcare environments support. Irbm, 2014, 35, 299-309.	3.7	11
19	An ambient assisted living framework for mobile environments. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
20	Hassle-Free Vitals: BioWireleSS for a Patient-Centric Health-Care Paradigm. IEEE Microwave Magazine, 2014, 15, S25-S33.	0.7	16
21	On middleware for emerging health services. Journal of Internet Services and Applications, 2014, 5, 6.	1.6	11
22	System Design in Sensor Network Virtualization for SHAAL , 2014, , .		4
23	Smart behavior tracking system for People With Disabilities at the work place. , 2015, , .		0
24	Mining top-k Regular Episodes from Sensor Streams. Procedia Computer Science, 2015, 69, 76-85.	1.2	4
25	Wireless sensor network deployment for remote elderly care monitoring. , 2015, , .		8
26	A Review of the Role of Sensors in Mobile Context-Aware Recommendation Systems. International Journal of Distributed Sensor Networks, 2015, 11, 489264.	1.3	16
27	A survey on an ingestible sensor for evaluating medication adherence in elderly people. , 2015, , .		5
28	Activity Monitoring Process based on Model-Driven Engineering “ Application to Ambient Assisted Living. Journal of Intelligent Systems, 2015, 24, 371-382.	1.2	1
29	A Collaborative Workflow for Computer-Aided Design in Ambient Assisted Living: The ASIM Project. Journal of Intelligent Systems, 2015, 24, 343-360.	1.2	0
30	A multi. , 2015, , .		10
31	Active and assisted living in your garden. , 2015, , .		0
32	Temporal pattern recognition for gait analysis applications using an "intelligent carpet" system. , 2015, , .		4
33	Authorization services of the eVida platform. , 2015, , .		0
34	Medical Virtual Instrumentation for Ambient Assisted Living: Part 1 Concepts. Measurement and Control, 2015, 48, 167-177.	0.9	4
35	CEO: A context event only indoor localization technique for AAL. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 745-760.	0.8	6
36	The architecture design of the wearable health monitoring system based on internet of things technology. International Journal of Grid and Utility Computing, 2015, 6, 207.	0.1	25
37	Flexibility Support for Homecare Applications Based on Models and Multi-Agent Technology. Sensors, 2015, 15, 31939-31964.	2.1	14

#	ARTICLE	IF	CITATIONS
38	Emerging roles for telemedicine and smart technologies in dementia care. Smart Homecare Technology and Telehealth, 2015, 3, 49.	0.3	78
39	Hands-On Experiences in Deploying Cost-Effective Ambient-Assisted Living Systems. Sensors, 2015, 15, 14487-14512.	2.1	51
40	eHealth 2015 Special Issue: Effects of an assistance service on the quality of life of elderly users. Applied Clinical Informatics, 2015, 06, 429-442.	0.8	6
43	On Resampling for Bayesian Filters in Discrete State Spaces. , 2015, , .		2
44	Exploring Accuracy-Cost Tradeoff in In-Home Living Activity Recognition Based on Power Consumptions and User Positions. , 2015, , .		11
45	Multi-thread based middleware for sensor network virtualization. , 2015, , .		3
46	A Data Analytics Schema for Activity Recognition in Smart Home Environments. Lecture Notes in Computer Science, 2015, , 91-102.	1.0	7
47	Validation of an optimized algorithm to use Kinect in a non-structured environment for Sit-to-Stand analysis. , 2015, 2015, 5078-81.		5
48	An example of monitoring system with reasoning module for ambient assisted living applications. , 2015, , .		5
49	Managing Wandering Risk in People With Dementia. IEEE Transactions on Human-Machine Systems, 2015, 45, 819-823.	2.5	16
50	Speech and speaker recognition for home automation: Preliminary results. , 2015, , .		17
51	Assist-Me - A Volunteer Mobile Emergency System to Assist Elderly People. , 2015, , .		7
53	Ambient Technology to Support Elderly People in Outdoor Risk Situations. Communications in Computer and Information Science, 2015, , 35-56.	0.4	2
54	From lab to life: Fine-grained behavior monitoring in the elderly's home. , 2015, , .		21
55	Usability Evaluation of a Health Care Application Based on IPTV. Procedia Computer Science, 2015, 64, 635-642.	1.2	17
56	Monitoring technologies for buildings equipped with ambient assisted living: Current status and where next. , 2015, , .		3
57	An architecture to manage motor disorders in Parkinson's disease. , 2015, , .		12
58	Ubiquitous Computing and Ambient Intelligence. Sensing, Processing, and Using Environmental Information. Lecture Notes in Computer Science, 2015, , .	1.0	1

#	ARTICLE	IF	CITATIONS
59	Reliable MAC design for ambient assisted living: moving the coordination to the cloud. , 2015, 53, 78-86.		31
60	Authentication protocol for an ambient assisted living system. , 2015, 53, 71-77.		193
61	Asynchronous flow scheduling for green ambient assisted living communications. , 2015, 53, 64-70.		7
62	An Assistive Navigation Framework for the Visually Impaired. IEEE Transactions on Human-Machine Systems, 2015, 45, 635-640.	2.5	69
64	Unsupervised discovery of activities of daily living characterized by their periodicity and variability. Engineering Applications of Artificial Intelligence, 2015, 45, 90-102.	4.3	19
65	Modeling the Interaction and Control of Smart Universal Interface for Persons with Disabilities. Lecture Notes in Computer Science, 2015, , 377-388.	1.0	0
66	Emerging ICT implementation issues in aged care. International Journal of Medical Informatics, 2015, 84, 892-900.	1.6	57
67	Statistical models for unobtrusively detecting abnormal periods of inactivity in older adults. User Modeling and User-Adapted Interaction, 2015, 25, 231-265.	2.9	15
68	User Interaction Concepts in Smart Caring Homes for Elderly with Chronic Conditions. Lecture Notes in Computer Science, 2015, , 38-49.	1.0	1
69	Big Data for Health. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1193-1208.	3.9	571
70	The Elderlyâ€™s Independent Living in Smart Homes: A Characterization of Activities and Sensing Infrastructure Survey to Facilitate Services Development. Sensors, 2015, 15, 11312-11362.	2.1	216
71	A method for recognizing living activities in homes using positioning sensor and power meters. , 2015, , .		26
72	Ambient Assisted Living. Biosystems and Biorobotics, 2015, , .	0.2	6
73	A Multi-Agent System in Ambient Intelligence for the Physical Rehabilitation of Older People. Advances in Intelligent Systems and Computing, 2015, , 113-123.	0.5	9
74	Monitoring elderly behavior via indoor position-based stigmergy. Pervasive and Mobile Computing, 2015, 23, 26-42.	2.1	59
75	Marginal filtering in large state spaces. International Journal of Approximate Reasoning, 2015, 61, 16-32.	1.9	13
76	eFRIEND: an ethical framework for intelligent environments development. Ethics and Information Technology, 2015, 17, 11-25.	2.3	42
77	SafeRoute: An Example of Multi-sensoring Tracking for the Elderly Using Mobiles on Ambient Intelligence. Communications in Computer and Information Science, 2015, , 201-212.	0.4	6

#	ARTICLE	IF	CITATIONS
78	Abnormal Behavioral Patterns Detection from Activity Records of Institutionalized Older Adults. Lecture Notes in Computer Science, 2015, , 119-131.	1.0	5
79	A holistic smart home demonstrator for anomaly detection and response. , 2015, , .		7
80	An Anytime Voice Controlled Ambient Assisted Living System for motion disabled persons. , 2015, , .		7
81	Design of a Predictive Scheduling System to Improve Assisted Living Services for Elders. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-31.	2.9	12
82	A Fatigue Measuring Protocol for Wireless Body Area Sensor Networks. Journal of Medical Systems, 2015, 39, 193.	2.2	7
83	Integration of Wearable Solutions in AAL Environments with Mobility Support. Journal of Medical Systems, 2015, 39, 184.	2.2	33
84	Bridging e-Health and the Internet of Things: The SPHERE Project. IEEE Intelligent Systems, 2015, 30, 39-46.	4.0	201
85	Successful aging: Advancing the science of physical independence in older adults. Ageing Research Reviews, 2015, 24, 304-327.	5.0	172
86	ubiMonitor. , 2015, , .		2
89	A Smart Phone-Based Pocket Fall Accident Detection, Positioning, and Rescue System. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 44-56.	3.9	139
90	Qualidade de Vida e Ambient Assisted Living: modelos de inclusÃ£o para adultos com deficiÃªncia. InformÃ¡tica Na EducaÃ§Ã£o Teoria & PrÃ¡tica, 2016, 19, .	0.1	0
93	Self-Organizing Wearable Device Platform for Assisting and Reminding Humans in Real Time. Mobile Information Systems, 2016, 2016, 1-15.	0.4	11
94	Use and Adoption of an Assisted Cognition System to Support Therapies for People with Dementia. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	0.7	7
95	A Human Activity Recognition System Using Skeleton Data from RGBD Sensors. Computational Intelligence and Neuroscience, 2016, 2016, 1-14.	1.1	158
96	Challenges and Issues in Multisensor Fusion Approach for Fall Detection: Review Paper. Journal of Sensors, 2016, 2016, 1-12.	0.6	58
97	Recognition of Daily Gestures with Wearable Inertial Rings and Bracelets. Sensors, 2016, 16, 1341.	2.1	60
98	High-accuracy positioning for indoor applications: RFID, UWB, 5G, and beyond. , 2016, , .		43
99	Assessing the user experience of older adults using a neural network trained to recognize emotions from brain signals. Journal of Biomedical Informatics, 2016, 62, 202-209.	2.5	22

#	ARTICLE	IF	CITATIONS
100	On the early diagnosis of Alzheimer's Disease from multimodal signals: A survey. Artificial Intelligence in Medicine, 2016, 71, 1-29.	3.8	141
101	Detection of anomalies in activity patterns of lone occupants from electricity usage data. , 2016, , .		2
102	Computationally efficient environmental monitoring with electronic nose: A potential technology for ambient assisted living. , 2016, , .		2
103	Low-cost and Device-free Activity Recognition System with Energy Harvesting PIR and Door Sensors. , 2016, , .		13
104	On-line human activity recognition from audio and home automation sensors: Comparison of sequential and non-sequential models in realistic Smart Homes1. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 399-422.	0.8	46
105	Projector-camera based remote assistance system for the elderly: Design issues and implementation. , 2016, , .		3
106	Older People and Social Participation. , 2016, , .		17
107	End-user personalization of context-dependent applications in AAL scenarios. , 2016, , .		12
108	Designing a Video Monitoring System for AAL applications: the SPHERE Case Study. , 2016, , .		6
109	A Graph-Based Method for Indoor Subarea Localization with Zero-Configuration. , 2016, , .		2
110	Investigating recognition accuracy improvement by adding user's acceleration data to location and power consumption-based in-home activity recognition system. , 2016, , .		5
111	Promoting Social Connectedness through Human Activity-Based Ambient Displays. , 2016, , .		18
112	Human activity recognition using multisensor data fusion based on Reservoir Computing. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 87-107.	0.8	112
113	A road to independent living with smart homes for people with disabilities. , 2016, , .		8
114	Ambient assisted living systems in the context of human centric sensing and IoT concept: EWall case study. , 2016, , .		5
115	A unified cloud-based framework for AAL services provision to elderly with cognitive impairments. , 2016, , .		6
116	An Event-Based Approach for Discovering Activities of Daily Living by Hidden Markov Models. , 2016, , .		10
117	A New Approach of Facial Expression Recognition for Ambient Assisted Living. , 2016, , .		13

#	ARTICLE	IF	CITATIONS
118	User Movement Prediction: The Contribution of Machine Learning Techniques. , 2016, , .		14
119	Improving Awareness and Social Connectedness through the Social Hue. , 2016, , .		10
120	Smart Robot Control via Novel Computational Intelligence Methods for Ambient Assisted Living. Studies in Computational Intelligence, 2016, , 29-55.	0.7	2
122	Comparative Analysis of Prominent Middleware Platforms in the Domain of Ambient Assisted Living (AAL) for an Older Adults with Dementia (OAwD) Scenario. Procedia Computer Science, 2016, 83, 537-544.	1.2	5
123	A Comprehensive Semantic Model for Smart Object Description and Request Resolution in the Internet of Things. Procedia Computer Science, 2016, 83, 147-154.	1.2	22
124	Wireless Body Area Networks: Applications and Technologies. Procedia Computer Science, 2016, 83, 1274-1281.	1.2	271
125	A residential maintenance-free long-term activity monitoring system for healthcare applications. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	27
126	Physical rehabilitation exercises assessment based on Hidden Semi-Markov Model by Kinect v2. , 2016, , .		20
127	Promotion of active ageing combining sensor and social network data. Journal of Biomedical Informatics, 2016, 64, 108-115.	2.5	18
128	Classifying Human Activities with Temporal Extension of Random Forest. Lecture Notes in Computer Science, 2016, , 3-10.	1.0	2
129	Monitoring energy consumption to derive the welfare of solitary seniors. , 2016, , .		0
130	On the Design of Smart Homes: A Framework for Activity Recognition in Home Environment. Journal of Medical Systems, 2016, 40, 200.	2.2	87
131	Factors Influencing Ageing Population for Adopting Ambient Assisted Living Technologies in the Kingdom of Saudi Arabia. Ageing International, 2016, 41, 227-239.	0.6	26
132	Accelerated Visual Context Classification on a Low-Power Smartwatch. IEEE Transactions on Human-Machine Systems, 2016, , 1-12.	2.5	27
133	Impact of wireless communications technologies on elder people healthcare: Smart home in Australia. , 2016, , .		12
134	Patient Data Dissemination in Wireless Body Area Network. , 2016, , .		1
135	A Healthcare Support System for Assisted Living Facilities: An IoT Solution. , 2016, , .		20
136	Temporal Pattern Recognition in Gait Activities Recorded With a Footprint Imaging Sensor System. IEEE Sensors Journal, 2016, 16, 8815-8822.	2.4	36

#	ARTICLE	IF	CITATIONS
137	Applying online feature selection for fall detection. , 2016, , .		2
139	Towards application of non-invasive environmental sensors for risks and activity detection. , 2016, , .		12
140	A home automation based environmental sound alert for people experiencing hearing loss. , 2016, 2016, 5348-5351.		3
141	A Discrete Event Oriented Framework for a Smart House Behavior Monitor System. , 2016, , .		2
142	Ubiquitous reminders to manage timetable in a smart home. , 2016, , .		2
143	Envisioning an ambient smart calendar to support aging in place. , 2016, , .		5
144	PS redesign for Smartphone-using older adults. , 2016, , .		0
146	Emotion Recognition Based on Physiological Sensor Data Using Codebook Approach. Advances in Intelligent Systems and Computing, 2016, , 27-39.	0.5	5
147	How older adults with mild cognitive impairment relate to technology as part of present and future everyday life: a qualitative study. BMC Geriatrics, 2016, 16, 73.	1.1	38
148	A Triaxial Accelerometer-Based Human Activity Recognition via EEMD-Based Features and Game-Theory-Based Feature Selection. IEEE Sensors Journal, 2016, 16, 3198-3207.	2.4	80
149	Towards an automatic early stress recognition system for office environments based on multimodal measurements: A review. Journal of Biomedical Informatics, 2016, 59, 49-75.	2.5	348
150	Companion-Technology: An Overview. KI - Kunstliche Intelligenz, 2016, 30, 11-20.	2.2	27
152	Monitoring Activities of Daily Living in Smart Homes: Understanding human behavior. IEEE Signal Processing Magazine, 2016, 33, 81-94.	4.6	237
153	High-Accuracy Localization for Assisted Living: 5G systems will turn multipath channels from foe to friend. IEEE Signal Processing Magazine, 2016, 33, 59-70.	4.6	321
154	Sensors in Assisted Living: A survey of signal and image processing methods. IEEE Signal Processing Magazine, 2016, 33, 36-44.	4.6	89
155	Wearable Health Monitoring Systems: An Overview of Design Research Areas. Annals of Information Systems, 2016, , 17-27.	0.5	4
156	The Spread of Innovatory Nature Originated Metaheuristics in Robot Swarm Control for Smart Living Environments. Studies in Systems, Decision and Control, 2016, , 39-70.	0.8	5
157	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.	3.4	74

#	ARTICLE	IF	CITATIONS
158	Fuzzy inference-based fall detection using kinect and body-worn accelerometer. Applied Soft Computing Journal, 2016, 40, 305-318.	4.1	57
159	Design of Wearable Health Monitoring Systems: An Overview of Techniques and Technologies. Annals of Information Systems, 2016, , 79-94.	0.5	13
160	Gardening in Ambient Assisted Living. Urban Forestry and Urban Greening, 2016, 15, 186-189.	2.3	8
161	Affective Haptics: Current Research and Future Directions. IEEE Access, 2016, 4, 26-40.	2.6	101
162	Towards online and personalized daily activity recognition, habit modeling, and anomaly detection for the solitary elderly through unobtrusive sensing. Multimedia Tools and Applications, 2017, 76, 10779-10799.	2.6	52
163	Smart home technologies that support independent living: challenges and opportunities for the building industry – a systematic mapping study. Intelligent Buildings International, 2017, 9, 40-63.	1.3	25
164	Energy Efficient Communication in Ambient Assisted Living. , 2017, , 37-59.		0
165	The Human Factor in the Design of Successful Ambient Assisted Living Technologies. , 2017, , 61-89.		12
166	Matching Requirements for Ambient Assisted Living and Enhanced Living Environments with Networking Technologies. , 2017, , 91-121.		5
167	Developing Embedded Platforms for Ambient Assisted Living. , 2017, , 211-246.		5
168	M2M Communications and Their Role in AAL. , 2017, , 441-487.		1
169	Kernel fusion based extreme learning machine for cross-location activity recognition. Information Fusion, 2017, 37, 1-9.	11.7	84
170	From Activity Recognition to Intention Recognition for Assisted Living Within Smart Homes. IEEE Transactions on Human-Machine Systems, 2017, 47, 368-379.	2.5	124
171	Security for Cyber-Physical Systems in Healthcare. , 2017, , 233-251.		14
172	Voices and Views of Informal Caregivers: Investigating Ambient Assisted Living Technologies. Lecture Notes in Computer Science, 2017, , 110-123.	1.0	5
173	Assistive Intelligent Transportation Systems: The Need for User Localization and Anonymous Disability Identification. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 25-40.	2.6	17
174	Network-based approaches for evaluating ambient assisted living (AAL) technologies. Evaluation, 2017, 23, 192-208.	0.7	12
175	NFC based dataset annotation within a behavioral alerting platform. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
176	Effects of Ambient Lighting Displays on Peripheral Activity Awareness. IEEE Access, 2017, 5, 9318-9335.	2.6	19
177	Toward real-time in-home activity recognition using indoor positioning sensor and power meters. , 2017, , .		16
178	Improving Representativeness in Participatory Design Processes with Elderly. , 2017, , .		5
179	ALPAS: Analog-PIR-Sensor-Based Activity Recognition System in Smarthome. , 2017, , .		13
180	GraphLoc: a graph-based method for indoor subarea localization with zero-configuration. Personal and Ubiquitous Computing, 2017, 21, 489-505.	1.9	11
181	A legal framework for an elderly healthcare platform: A privacy and data protection overview. Computer Law and Security Review, 2017, 33, 647-658.	1.3	8
182	Expectations and realities in welfare technologies. Transforming Government: People, Process and Policy, 2017, 11, 286-303.	1.3	6
183	A Novel Real-Time Fall Detection System Based on Real-Time Video and Mobile Phones. Journal of Circuits, Systems and Computers, 2017, 26, 1750056.	1.0	1
184	Component-Based Hybrid Reference Architecture for Managing Adaptable Embedded Software Development. Computer Communications and Networks, 2017, , 119-141.	0.8	0
185	Multimodal technologies for seniors: challenges and opportunities. , 2017, , 319-362.		7
186	Ambient Intelligence. Lecture Notes in Computer Science, 2017, , .	1.0	5
187	A Novel Integrated Architecture for Ambient Assisted Living Systems. , 2017, , .		5
188	Design Tradeoffs for Cloud-Based Ambient Assisted Living Systems. , 2017, , .		3
189	A Context-Aware System for Ambient Assisted Living. Lecture Notes in Computer Science, 2017, , 426-438.	1.0	5
190	Information and Communication Technologies for the Activities of Daily Living in Older Patients with Dementia: A Systematic Review. Journal of Alzheimer's Disease, 2017, 57, 927-935.	1.2	60
191	Activity Model for Interactive Micro Context-Aware Well-Being Applications Based on ContextAA. Lecture Notes in Computer Science, 2017, , 99-111.	1.0	1
192	Cloud-based recognition of complex activities for ambient assisted living in smart homes with non-invasive sensors. , 2017, , .		2
193	Comparative investigation of remote tracking devices for aging care. International Journal of Information Technology (Singapore), 2017, 9, 261-266.	1.8	4

#	ARTICLE	IF	CITATIONS
194	Multicriteria Evaluation of the Internet of Things Potential in Health Care: The Case of Dementia Care. , 2017, , .		7
195	Where to wear it. , 2017, , .		137
196	Ambient Assisted Living Technologies from the Perspectives of Older People and Professionals. Lecture Notes in Computer Science, 2017, , 255-266.	1.0	19
197	Enable IoT interoperability in ambient assisted living: Active and healthy aging scenarios. , 2017, , .		18
198	Shrink: A Breast Cancer Risk Assessment Model Based on Medical Social Network. , 2017, , .		5
199	Investigating the enabling factors influencing occupational therapistsâ€™ adoption of assisted living technology. British Journal of Occupational Therapy, 2017, 80, 668-675.	0.5	14
200	Sharable Personal Automations for Ambient Assisted Living. , 2017, , .		3
201	Possibilistic activity recognition with uncertain observations to support medication adherence in an assisted ambient living setting. Knowledge-Based Systems, 2017, 133, 156-173.	4.0	25
202	Energy reduction platform based on occupant behavior pattern detection in enhanced living environments. , 2017, , .		0
203	AAL open source system for the monitoring and intelligent control of nursing homes. , 2017, , .		10
205	ETHICS OF SMART HOUSE WELFARE TECHNOLOGY FOR OLDER ADULTS: A SYSTEMATIC LITERATURE REVIEW. International Journal of Technology Assessment in Health Care, 2017, 33, 691-699.	0.2	41
206	Toward an Unsupervised Approach for Daily Gesture Recognition in Assisted Living Applications. IEEE Sensors Journal, 2017, 17, 8395-8403.	2.4	20
207	Enabling Personalisation of Remote Elderly Assistant Applications. , 2017, , .		10
208	An IoT Approach for an AAL Wi-Fi-Based Monitoring System. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3200-3209.	2.4	55
209	Private assisted house for smart living. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 725-741.	0.8	0
210	Influence of Design Elements in Mobile Applications on User Experience of Elderly People. Procedia Computer Science, 2017, 113, 352-359.	1.2	44
211	Simple observation sensor system and local community network model: Real society experiment on solitary death prevention for low-income single elderly residents in collective housing. Artificial Life and Robotics, 2017, 22, 289-295.	0.7	0
212	An optimal approach for low-power migraine prediction models in the state-of-the-art wireless monitoring devices. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
213	Complex behavioral pattern mining in non-intrusive sensor-based smart homes using an intelligent activity inference engine. <i>Journal of Reliable Intelligent Environments</i> , 2017, 3, 99-116.	3.8	14
214	Innovations and practical applications of intelligent systems in ambient intelligence and humanized computing. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017, 8, 155-156.	3.3	6
215	From Fall Detection to Fall Prevention: A Generic Classification of Fall-Related Systems. <i>IEEE Sensors Journal</i> , 2017, 17, 812-822.	2.4	157
216	The OCarePlatform: A context-aware system to support independent living. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 140, 111-120.	2.6	15
217	A Multi-Agent System for Acquired Brain Injury rehabilitation in Ambient Intelligence environments. <i>Neurocomputing</i> , 2017, 231, 11-18.	3.5	20
218	Delta Features From Ambient Sensor Data are Good Predictors of Change in Functional Health. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 986-993.	3.9	24
219	Location-based technologies for supporting elderly pedestrian in "getting lost" events. <i>Disability and Rehabilitation: Assistive Technology</i> , 2017, 12, 315-323.	1.3	19
220	Unsupervised illness recognition via in-home monitoring by depth cameras. <i>Pervasive and Mobile Computing</i> , 2017, 38, 166-187.	2.1	9
221	Crowd-Based Ambient Assisted Living to Monitor the Elderly's Health Outdoors. <i>IEEE Software</i> , 2017, 34, 53-57.	2.1	36
222	Healthy Routes in the Smart City: A Context-Aware Mobile Recommender. <i>IEEE Software</i> , 2017, 34, 42-47.	2.1	47
223	Towards an approach for analyzing trust in Cyber-Physical-Social Systems. , 2017, , .		6
224	Reverse recognition of body postures using on-body radio channel characteristics. <i>IET Microwaves, Antennas and Propagation</i> , 2017, 11, 1212-1217.	0.7	7
225	An NF V-powered emergency system for smart enhanced living environments. , 2017, , .		6
226	Delivering elder-care environments utilizing TV-channel based mechanisms. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2017, 9, 783-798.	0.8	6
227	Online data segmentation based on clustering algorithm and autoregressive model for human actions recognition. , 2017, , .		1
228	Towards User-Centered Assistance in Smart Environments Based on Device Metadata. , 2017, , .		0
229	Designing smart manufacturing workplace utilizing fuzzy screening approach. , 2017, , .		1
230	Barriers in acceptance of Ambient Assisted Living technologies among older Australians. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
231	A web-based solution for robotic telepresence. International Journal of Advanced Robotic Systems, 2017, 14, 172988141774373.	1.3	14
232	A Flexible Architecture for Cognitive Sensing of Activities in Ambient Assisted Living. , 2017, , .		14
233	An ambient intelligence system for assisted living. , 2017, , .		15
234	Application of home automation system for assisted living services in home healthcare. , 2017, , .		1
235	BESI: Reliable and Heterogeneous Sensing and Intervention for In-home Health Applications. , 2017, , .		14
236	IEEE 802.15.6 compliant WBSN: A case study. , 2017, , .		5
237	Activity recognition approaches for smart cities: The City4Age use case. , 2017, , .		2
238	Low cost intelligent notification and alarming system for ambient assisted living applications. , 2017, , .		2
239	Social-aware Event Handling within the FallRisk Project. Methods of Information in Medicine, 2017, 56, 63-73.	0.7	7
240	Smart Health â€œ Potential and Pathways: A Survey. IOP Conference Series: Materials Science and Engineering, 2017, 225, 012065.	0.3	5
241	Development and Evaluation of a Mobile Application Suite for Enhancing the Social Inclusion and Well-Being of Seniors. Informatics, 2017, 4, 15.	2.4	23
242	Ambient Assisted Living and Health-Related Outcomesâ€”A Systematic Literature Review. Informatics, 2017, 4, 19.	2.4	23
243	Significant Change Spotting for Periodic Human Motion Segmentation of Cleaning Tasks Using Wearable Sensors. Sensors, 2017, 17, 187.	2.1	7
244	homeSound: Real-Time Audio Event Detection Based on High Performance Computing for Behaviour and Surveillance Remote Monitoring. Sensors, 2017, 17, 854.	2.1	55
245	UbiWheel: A simple context-aware universal control concept for smart home appliances that encourages active living. , 2017, , .		10
246	Smart Homes for Elderly Healthcareâ€”Recent Advances and Research Challenges. Sensors, 2017, 17, 2496.	2.1	379
247	A Low Cost Wireless Acoustic Sensor for Ambient Assisted Living Systems. Applied Sciences (Switzerland), 2017, 7, 877.	1.3	21
248	Everyday Functioning Benefits from an Assisted Living Platform amongst Frail Older Adults and Their Caregivers. Frontiers in Aging Neuroscience, 2017, 9, 302.	1.7	23

#	ARTICLE	IF	CITATIONS
249	A Smart Telecare System at Digital Home: Perceived Usefulness, Satisfaction, and Expectations for Healthcare Professionals. <i>Journal of Sensors</i> , 2017, 2017, 1-12.	0.6	11
250	Traffic Adaptive MAC Protocols in Wireless Body Area Networks. <i>Wireless Communications and Mobile Computing</i> , 2017, 2017, 1-14.	0.8	31
251	Internet of Things Framework for Home Care Systems. <i>Wireless Communications and Mobile Computing</i> , 2017, 2017, 1-10.	0.8	39
252	Deep Learning in Visual Computing and Signal Processing. <i>Applied Computational Intelligence and Soft Computing</i> , 2017, 2017, 1-13.	1.6	91
253	Better than counting seconds: Identifying fallers among healthy elderly using fusion of accelerometer features and dual-task Timed Up and Go. <i>PLoS ONE</i> , 2017, 12, e0175559.	1.1	44
254	Ethical framework of assistive devices: review and reflection. <i>Robotics and Biomimetics</i> , 2017, 4, 19.	1.7	14
255	Establishing Mutually Trusted Channels for Remote Sensing Devices with Trusted Execution Environments. , 2017, , .		18
256	Indoor Positioning System Based on a PSD Detector, Precise Positioning of Agents in Motion Using AoA Techniques. <i>Sensors</i> , 2017, 17, 2124.	2.1	21
257	Dirichlet Process Gaussian Mixture Model for Activity Discovery in Smart Homes with Ambient Sensors. , 2017, , .		0
258	An intelligent well-being monitoring system for residents in extra care homes. , 2017, , .		8
259	A Radar-Based Smart Sensor for Unobtrusive Elderly Monitoring in Ambient Assisted Living Applications. <i>Biosensors</i> , 2017, 7, 55.	2.3	92
260	Caloo. , 2017, , .		9
261	From Human-Centric Systems to Community-Centric Systems. <i>International Journal of Artificial Life Research</i> , 2017, 7, 1-23.	0.1	6
262	Vision-based patient monitoring: a comprehensive review of algorithms and technologies. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, 9, 225-251.	3.3	84
263	A survey on health monitoring systems for health smart homes. <i>International Journal of Industrial Ergonomics</i> , 2018, 66, 26-56.	1.5	158
264	Internet-of-Things and Smart Homes for Elderly Healthcare: An End User Perspective. <i>IEEE Access</i> , 2018, 6, 10483-10496.	2.6	210
265	Channel Deviation-Based Power Control in Body Area Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 785-798.	3.9	6
266	Intelligent hybrid remote patient-monitoring model with cloud-based framework for knowledge discovery. <i>Computers and Electrical Engineering</i> , 2018, 70, 1034-1048.	3.0	46

#	ARTICLE	IF	CITATIONS
267	Sensing-Fi: Wi-Fi CSI and accelerometer fusion system for fall detection. , 2018, , .		17
268	A Smart Home Model Using Android Application. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 3-10.	0.5	8
269	Mymemory: A mobile memory assistant for people with traumatic brain injury. <i>International Journal of Human Computer Studies</i> , 2018, 117, 4-19.	3.7	18
271	Event-driven system for fall detection using body-worn accelerometer and depth sensor. <i>IET Computer Vision</i> , 2018, 12, 48-58.	1.3	20
272	Non-wearable human identification sensors for smart home environment: a review. <i>Sensor Review</i> , 2018, 38, 391-404.	1.0	11
273	Mobile and wearable technologies in healthcare for the ageing population. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 161, 233-237.	2.6	86
274	A home security system for seniors based on the beacon technology. <i>Concurrency Computation Practice and Experience</i> , 2018, 30, e4496.	1.4	4
275	SOCIAL Platform. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 1162-1168.	0.5	6
276	Hip and Trunk Kinematics Estimation in Gait Through Kalman Filter Using IMU Data at the Ankle. <i>IEEE Sensors Journal</i> , 2018, 18, 4253-4260.	2.4	41
277	On enhancing accessible smart buildings using IoT. , 2018, , .		10
278	An Integrated Framework for Binary Sensor Placement and Inhabitants Location Tracking. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 154-160.	5.9	24
279	Secure and efficient anonymous authentication scheme for three-tier mobile healthcare systems with wearable sensors. <i>Telecommunication Systems</i> , 2018, 67, 323-348.	1.6	36
280	Towards fog-driven IoT eHealth: Promises and challenges of IoT in medicine and healthcare. <i>Future Generation Computer Systems</i> , 2018, 78, 659-676.	4.9	710
281	Multi-view stacking for activity recognition with sound and accelerometer data. <i>Information Fusion</i> , 2018, 40, 45-56.	11.7	83
282	Challenges and Opportunities in Designing Smart Spaces. <i>Internet of Things</i> , 2018, , 131-152.	1.3	9
283	Internet of Everything. <i>Internet of Things</i> , 2018, , .	1.3	20
284	Ethical Design of Intelligent Assistive Technologies for Dementia: A Descriptive Review. <i>Science and Engineering Ethics</i> , 2018, 24, 1035-1055.	1.7	126
285	Secure sensors data acquisition and communication protection in eHealthcare: Review on the state of the art. <i>Telematics and Informatics</i> , 2018, 35, 702-726.	3.5	18

#	ARTICLE	IF	CITATIONS
286	Discovering and Learning Recurring Structures in Building Floor Plans. Lecture Notes in Geoinformation and Cartography, 2018, , 151-170.	0.5	1
287	Delivering home healthcare through a Cloud-based Smart Home Environment (CoSHE). Future Generation Computer Systems, 2018, 81, 129-140.	4.9	109
288	An Improved Three-Stage Classifier for Activity Recognition. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1860003.	0.7	11
289	A Self-Organized Learning Model for Anomalies Detection: Application to Elderly People. , 2018, , .		4
290	Will artificial intelligence be a blessing or concern in assistive robots for play?. Journal of Human Growth and Development, 2018, 28, 213.	0.2	6
292	Messung von Nutzerinteraktion mit einem Exoskelett durch EMG und Gelenk-Drehmomente. TM Technisches Messen, 2018, 85, 487-495.	0.3	1
293	An EnOcean Wearable Device with Fall Detection Algorithm Integrated with a Smart Home System. IFAC-PapersOnLine, 2018, 51, 9-14.	0.5	18
294	A Platform to Support the Care and Assistance of Community-Dwelling Older Adults. Procedia Computer Science, 2018, 138, 197-202.	1.2	3
295	A case study of an interaction design approach to pervasive healthcare. , 2018, , .		1
296	Unifying and Analysing Activities of Daily Living in Extra Care Homes. , 2018, , .		8
297	Energy-based decision engine for household human activity recognition. , 2018, , .		3
298	Synthesizing and Reconstructing Missing Sensory Modalities in Behavioral Context Recognition. Sensors, 2018, 18, 2967.	2.1	15
299	Tangible User Interfaces for Ambient Assisted Working. , 2018, , 61-79.		0
300	Smart Healthcare in the IoT Era: A Context-Aware Recommendation Example. , 2018, , .		9
301	An Ontology-based Home Care Service Robot for Persons with Dementia. , 2018, , .		4
302	Designing interactive public displays in caring environments: A case study of OutLook. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 427-443.	0.8	8
304	Developing Support Technologies. Biosystems and Biorobotics, 2018, , .	0.2	6
305	Learning indoor space perception. Journal of Location Based Services, 2018, 12, 179-214.	1.4	8

#	ARTICLE	IF	CITATIONS
306	Modeling and Reasoning with ProbLog: An Application in Recognizing Complex Activities. , 2018, , .		6
307	The Design for All Paradigm in the Development of Applications to Support Older Adults. , 2018, , .		4
308	Design and Implementation of a Remote Care Application Based on Microservice Architecture. Lecture Notes in Computer Science, 2018, , 549-557.	1.0	2
309	Ontology-based Dementia Care Support System. , 2018, 2018, 3318-3321.		6
310	Investigation into the Potential to Create a Force Myography-based Smart-home Controller for Aging Populations. , 2018, , .		5
311	Trajectory annotation using sequences of spatial perception. , 2018, , .		0
312	A Domain-Specific Approach to Unifying the Many Dimensions of Context-Aware Home Service Development. , 2018, , .		1
313	Extended Model for Ethical Evaluation. Biosystems and Biorobotics, 2018, , 257-263.	0.2	3
314	Dengue Epidemics Prediction: A Survey of the State-of-the-Art Based on Data Science Processes. IEEE Access, 2018, 6, 53757-53795.	2.6	42
315	Step by Step: Early Detection of Diseases Using an Intelligent Floor. Lecture Notes in Computer Science, 2018, , 131-146.	1.0	1
316	H2A" The Human Health and Activity Laboratory. Proceedings (mdpi), 2018, 2, .	0.2	3
317	Real-Time Distributed Architecture for Remote Acoustic Elderly Monitoring in Residential-Scale Ambient Assisted Living Scenarios. Sensors, 2018, 18, 2492.	2.1	40
318	Testing Ambient Assisted Living Solutions with Simulations. Lecture Notes in Computer Science, 2018, , 56-61.	1.0	4
319	A formally assured intelligent ecosystem for enhanced ambient assisted living support. , 2018, , .		0
320	Housing for Older Adults. , 2018, , 77-106.		8
321	A Framework for Semi-Supervised Adaptive Learning for Activity Recognition in Healthcare Applications. Communications in Computer and Information Science, 2018, , 3-15.	0.4	7
322	A Gestures Recognition Based Approach for Human-Robot-Interaction. , 2018, , .		0
323	Image Quality Enhancement of Digital Breast Tomosynthesis Images by Deblurring with Deep Residual Convolutional Neural Network. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
324	Computer Vision for Egocentric (First-Person) Vision. , 2018, , 183-210.		2
325	Enhance daily live and health of elderly people. Procedia Computer Science, 2018, 130, 967-972.	1.2	15
326	Living with Disabilities â€œ The Many Faces of Smart Home Technology Acceptance. Communications in Computer and Information Science, 2018, , 21-45.	0.4	1
328	Trigger-action programming for context-aware elderly support in practice. , 2018, , .		1
329	A novel methodology for designing smart workplace environments utilizing fuzzy relations. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 169-193.	0.8	2
330	Health management and pattern analysis of daily living activities of people with dementia using in-home sensors and machine learning techniques. PLoS ONE, 2018, 13, e0195605.	1.1	82
331	Towards the Use of Social Computing for Social Inclusion: An Overview of the Literature. Lecture Notes in Computer Science, 2018, , 376-387.	1.0	1
332	Predicting Human Behaviour with Recurrent Neural Networks. Applied Sciences (Switzerland), 2018, 8, 305.	1.3	73
333	User Requirement Analysis for the Design of a Gamified Ambient Assisted Living Application. Lecture Notes in Computer Science, 2018, , 426-433.	1.0	0
334	Unsupervised Learning Fuzzy Finite State Machine for Human Activities Recognition. , 2018, , .		2
335	Cryptanalysis of a secure and lightweight authentication protocol for wearable devices environment. , 2018, , .		1
336	A Component-Based Approach for Securing Indoor Home Care Applications. Sensors, 2018, 18, 46.	2.1	3
337	Geriatric Helper: An mHealth Application to Support Comprehensive Geriatric Assessment. Sensors, 2018, 18, 1285.	2.1	8
338	A Systematic Survey on Sensor Failure Detection and Fault-Tolerance in Ambient Assisted Living. Sensors, 2018, 18, 1991.	2.1	27
339	Ambient Sensors for Elderly Care and Independent Living: A Survey. Sensors, 2018, 18, 2027.	2.1	120
340	Attitudes Towards Aging and the Acceptance of ICT for Aging in Place. Lecture Notes in Computer Science, 2018, , 149-169.	1.0	15
341	The Experience of Developing the UJAmI Smart Lab. IEEE Access, 2018, 6, 34631-34642.	2.6	35
342	Extending the battery lifetime of wearable sensors with embedded machine learning. , 2018, , .		46

#	ARTICLE	IF	CITATIONS
343	Notification Oriented Paradigm Applied to Ambient Assisted Living Tool. IEEE Latin America Transactions, 2018, 16, 647-653.	1.2	10
344	Web platform architecture for ambient assisted living. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 35-47.	0.8	6
345	AAL Platforms Challenges in IoT Era: A Tertiary Study. , 2018, , .		8
346	A Review and Classification of Assisted Living Systems. Information (Switzerland), 2018, 9, 182.	1.7	24
347	An IoT-based smart pillow for sleep quality monitoring in AAL environments. , 2018, , .		20
349	A novel chaotic map based compressive classification scheme for human activity recognition using a tri-axial accelerometer. Multimedia Tools and Applications, 2018, 77, 31261-31280.	2.6	24
350	Information Security Theory and Practice. Lecture Notes in Computer Science, 2018, , .	1.0	2
351	Toward Ultra-Low-Power Remote Health Monitoring: An Optimal and Adaptive Compressed Sensing Framework for Activity Recognition. IEEE Transactions on Mobile Computing, 2019, 18, 658-673.	3.9	36
352	Listening to the ones who care: exploring the perceptions of informal caregivers towards ambient assisted living applications. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 761-778.	3.3	44
354	Social Robots and Seniors: A Comparative Study on the Influence of Dynamic Social Features on Humanâ€Robot Interaction. International Journal of Social Robotics, 2019, 11, 5-24.	3.1	43
355	Early Detection of Mild Cognitive Impairment With In-Home Monitoring Sensor Technologies Using Functional Measures: A Systematic Review. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 838-847.	3.9	56
356	EoT-driven hybrid ambient assisted living framework with naïve Bayesâ€firefly algorithm. Neural Computing and Applications, 2019, 31, 1275-1300.	3.2	36
357	Interoperability in Pervasive Health: A Systematic Review. Communications in Computer and Information Science, 2019, , 279-297.	0.4	2
359	Sensor-based activity recognition in the context of ambient assisted living systems: A review. Journal of Ambient Intelligence and Smart Environments, 2019, 11, 301-322.	0.8	35
360	AI-Based Early Change Detection in Smart Living Environments. Sensors, 2019, 19, 3549.	2.1	10
361	Trust in Autonomous Technologies. Lecture Notes in Computer Science, 2019, , 371-384.	1.0	7
363	Basic Knowledge, Strategies, and Procedures. , 2019, , 12-36.		0
364	Built Environment Upgrading for AAL (BeuAAL). , 2019, , 37-73.		0

#	ARTICLE	IF	CITATIONS
365	Existing AAL Products. , 2019, , 74-103.		0
366	Research and Development Projects for AAL Systems. , 2019, , 104-139.		0
367	Future Trends and Developments. , 2019, , 140-147.		0
370	A Consensus Novelty Detection Ensemble Approach for Anomaly Detection in Activities of Daily Living. Applied Soft Computing Journal, 2019, 83, 105613.	4.1	75
371	Sensor-based activity recognition: One picture is worth a thousand words. Future Generation Computer Systems, 2019, 101, 709-722.	4.9	17
372	Alternative Routen in komplexen Umgebungen. , 2019, , .		0
373	Energy Efficient Routing Protocol for Ambient Assisted Living Environment. Wireless Personal Communications, 2019, 109, 1333-1355.	1.8	9
374	Non-Invasive Ambient Intelligence in Real Life: Dealing with Noisy Patterns to Help Older People. Sensors, 2019, 19, 3113.	2.1	19
375	Nothing Else Matters! Trade-Offs Between Perceived Benefits and Barriers of AAL Technology Usage. Frontiers in Public Health, 2019, 7, 134.	1.3	25
376	Leveraging Machine Learning and Big Data for Smart Buildings: A Comprehensive Survey. IEEE Access, 2019, 7, 90316-90356.	2.6	125
377	Seven HCI Grand Challenges. International Journal of Human-Computer Interaction, 2019, 35, 1229-1269.	3.3	273
378	Deep-cARe: Projection-Based Home Care Augmented Reality System with Deep Learning for Elderly. Applied Sciences (Switzerland), 2019, 9, 3897.	1.3	20
379	Evaluating Internet of Medical Things (IoMT)-Based Systems from a Human-Centric Perspective. Internet of Things (Netherlands), 2019, 8, 100125.	4.9	29
380	<p>Older Peopleâ€™s Attitudes And Perspectives Of Welfare Technology In Norway</p>. Journal of Multidisciplinary Healthcare, 2019, Volume 12, 841-853.	1.1	20
381	Sensor-enabled Functional-Mobility Assessment: An Exploratory Investigation. , 2019, , .		0
382	A similarity measure approach for identifying causes of anomaly in activities of daily living. , 2019, , .		0
383	A Conversational Robot to Conduct Therapeutic Interventions for Dementia. IEEE Pervasive Computing, 2019, 18, 10-19.	1.1	15
384	Framework-Oriented Approach to Ease the Development of Ambient Assisted-Living Systems. IEEE Systems Journal, 2019, 13, 4421-4432.	2.9	4

#	ARTICLE	IF	CITATIONS
385	A Wearable System for Path Finding to Assist Elderly People in an Indoor Environment. , 2019, , .		3
386	SARM: Salah Activities Recognition Model Based on Smartphone. Electronics (Switzerland), 2019, 8, 881.	1.8	18
387	Multi-Sensor Fusion for Activity Recognitionâ€™A Survey. Sensors, 2019, 19, 3808.	2.1	57
388	Activity Recognition for IoT Devices Using Fuzzy Spatio-Temporal Features as Environmental Sensor Fusion. Sensors, 2019, 19, 3512.	2.1	30
389	Sensor virtualization Middleware design for Ambient Assisted Living based on the Priority packet processing. Procedia Computer Science, 2019, 151, 345-352.	1.2	1
390	Discussing a 'Design-led' Approach to Pervasive Healthcare. , 2019, , .		0
391	Enhanced Living Environments. Lecture Notes in Computer Science, 2019, , .	1.0	8
392	Integrating an openEHR-based personalized virtual model for the ageing population within HBase. BMC Medical Informatics and Decision Making, 2019, 19, 25.	1.5	16
393	IoT/Sensor-Based Infrastructures Promoting a Sense of Home, Independent Living, Comfort and Wellness. Sensors, 2019, 19, 485.	2.1	21
394	Recent Trends and Advances in Wireless and IoT-enabled Networks. EAI/Springer Innovations in Communication and Computing, 2019, , .	0.9	12
395	The Role of Drones in Ambient Assisted Living Systems for the Elderly. Lecture Notes in Computer Science, 2019, , 295-321.	1.0	9
396	Node Density Analysis for WBAN Schemes in Terms of Stability and Throughput. EAI/Springer Innovations in Communication and Computing, 2019, , 247-261.	0.9	2
397	A Sensor Platform for Non-invasive Remote Monitoring of Older Adults in Real Time. Smart Innovation, Systems and Technologies, 2019, , 125-135.	0.5	4
398	Development of a voice-controlled home automation system for the differently-abled. , 2019, , 31-45.		2
400	Towards successful digital transformation through co-creation: a longitudinal study of a four-year implementation of digital monitoring technology in residential care for persons with dementia. BMC Health Services Research, 2019, 19, 366.	0.9	70
401	Smart healthcare framework for ambient assisted living using IoMT and big data analytics techniques. Future Generation Computer Systems, 2019, 101, 136-151.	4.9	124
402	Monitoring Methods of Human Body Joints: State-of-the-Art and Research Challenges. Sensors, 2019, 19, 2629.	2.1	100
403	Bare necessities? How the need for care modulates the acceptance of ambient assisted living technologies. International Journal of Medical Informatics, 2019, 127, 147-156.	1.6	36

#	ARTICLE	IF	CITATIONS
404	Virtual Sensors for Optimal Integration of Human Activity Data. <i>Sensors</i> , 2019, 19, 2017.	2.1	9
405	Toward an efficient healthcare CloudIoT architecture by using a game theory approach. <i>Concurrent Engineering Research and Applications</i> , 2019, 27, 189-200.	2.0	15
406	Unobtrusive Monitoring the Daily Activity Routine of Elderly People Living Alone, with Low-Cost Binary Sensors. <i>Sensors</i> , 2019, 19, 2264.	2.1	29
407	A Patient-Specific Single Sensor IoT-Based Wearable Fall Prediction and Detection System. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 995-1003.	2.7	95
408	Classification of Sonar Targets in Air: A Neural Network Approach. <i>Sensors</i> , 2019, 19, 1176.	2.1	15
409	Embracing the Smart-Home Revolution in Asia by the Elderly: An End-User Negative Perception Modeling. <i>IEEE Access</i> , 2019, 7, 38535-38549.	2.6	43
410	A hybrid approach of knowledge-driven and data-driven reasoning for activity recognition in smart homes. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 4177-4188.	0.8	32
412	Automation in Systematic, Scoping and Rapid Reviews by an NLP Toolkit: A Case Study in Enhanced Living Environments. <i>Lecture Notes in Computer Science</i> , 2019, , 1-18.	1.0	18
413	Big Data Analytics in Smart Living Environments for Elderly Monitoring. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 301-309.	0.3	2
414	A Cyber Secured IoT: Fostering Smart Living and Safety of Fragile Individuals in Intelligent Environments. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 335-342.	0.3	1
415	The Social Platform: Profiling FHIR to Support Community-Dwelling Older Adults. <i>Journal of Medical Systems</i> , 2019, 43, 86.	2.2	6
416	The SmartHabits: An Intelligent Privacy-Aware Home Care Assistance System. <i>Sensors</i> , 2019, 19, 907.	2.1	36
417	Enabling personalisation of remote elderly assistance. <i>Multimedia Tools and Applications</i> , 2019, 78, 21557-21583.	2.6	14
418	Technological Ecosystems in Care and Assistance: A Systematic Literature Review. <i>Sensors</i> , 2019, 19, 708.	2.1	29
419	A Vision-Based Posture Monitoring System for the Elderly Using Intelligent Fall Detection Technique. <i>Computer Communications and Networks</i> , 2019, , 249-269.	0.8	10
420	Identifying behavioural changes for health monitoring applications using the advanced metering infrastructure. <i>Behaviour and Information Technology</i> , 2019, 38, 1154-1166.	2.5	11
421	A secure authentication protocol for wearable devices environment using ECC. <i>Journal of Information Security and Applications</i> , 2019, 47, 8-15.	1.8	19
422	Complex reactive event processing for assisted living: The Habitat project case study. <i>Expert Systems With Applications</i> , 2019, 126, 200-217.	4.4	13

#	ARTICLE	IF	CITATIONS
423	Depth-Based Fall Detection: Outcomes from a Real Life Pilot. Lecture Notes in Electrical Engineering, 2019, , 287-299.	0.3	3
424	Senior citizensâ€™ acceptance of connected health technologies in their homes. International Journal of Health Care Quality Assurance, 2019, 32, 1162-1174.	0.2	27
425	Evaluation of Crowdsourcing Wi-Fi Radio Map Creation in a Real Scenario for AAL Applications. , 2019, , .		3
426	In-Home Behavioral Observation Method Employing Internet of Things Sensors for Barrier Investigation of Energy Saving Activities. Proceedings (mdpi), 2019, 31, .	0.2	1
427	Improving Positioning Accuracy in Ambient Assisted Living Environments. A Multi-Sensor Approach. , 2019, , .		0
428	ICCSE 2019 Information about Conference Venue. , 2019, , .		0
429	Selection of an Educational Repository of 3D Objects at the Universidad TÃ©cnica Particular de Loja (UTPL). , 2019, , .		0
430	Analysis of Impervious Surface Change and Economy in Tianjin, China Using Landsat Time Series Data. , 2019, , .		0
431	Obstacle Avoidance Mechanism for Transmission Line Inspection Robot. , 2019, , .		2
432	Invisible-Guardian: Using Ensemble Learning to Classify Sound Events in Healthcare Scenes. , 2019, , .		0
434	Intelligent Concept of Optimal WiFi Mesh Router Placement for Enhanced QoS. , 2019, , .		2
435	Features Reduction Using Deep Miden Algorithm for Classification of Cancer Based on Itemset Sequent of Protein TP53. , 2019, , .		0
439	C-MIDN: Coupled Multiple Instance Detection Network With Segmentation Guidance for Weakly Supervised Object Detection. , 2019, , .		26
440	Sparse Channel Estimator via Block Approximate Zero Norm. , 2019, , .		0
441	Characterization of the response of Perovskite solar cells to gamma rays and neutrons. , 2019, , .		0
442	Big Data Analytics in Healthcare: A Review. , 2019, , .		1
443	Monitoring patients with fragilities in the context of de-hospitalization services: An Ambient Assisted Living Healthcare Framework for e-Health applications. , 2019, , .		11
444	The Design of S band Low Sidelobe Rectangular Waveguide Slot Phased Array Antenna. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
445	Propagated Perturbation of Adversarial Attack for well-known CNNs: Empirical Study and its Explanation. , 2019, , .		3
446	Deep Recurrent Neural Networks for Nonlinear System Identification. , 2019, , .		6
448	A Survey on IOT-Middleware and Image Processing. , 2019, , .		0
449	A Review of Asset Administration Shell. , 2019, , .		10
450	An Introspective Study on Dynamic Role-Centric RBAC Models. , 2019, , .		1
451	Barrage of Random Transforms for Adversarially Robust Defense. , 2019, , .		77
452	Model Predictive Control with Improved Current Loop Cascaded for Manipulator Systems. , 2019, , .		0
453	A Multi-step Traffic Speed Forecasting Model Based on Graph Convolutional LSTM. , 2019, , .		4
454	A Mobile Content Delivery Scheme Based on Software Defined Protocol for Mobile Users. , 2019, , .		0
455	Risk Assessment for Hybrid AC/DC System with Large-Scale Wind Power Integration. , 2019, , .		2
456	Weight Estimation of the Wiring in a Distributed Propulsion System for Aircraft. , 2019, , .		1
457	Time-Conditioned Action Anticipation in One Shot. , 2019, , .		64
458	Implications of user and system optimum based traffic control considering autonomous fleets. , 2019, , .		0
459	Solving Traveling Salesman Problem with Image-Based Classification. , 2019, , .		1
460	An Intelligent Control System for Service Robots. IFAC-PapersOnLine, 2019, 52, 327-332.	0.5	1
461	A Multi-objective Optimization Model for VRP and VFP based on An Improved Ant Colony Algorithm. , 2019, , .		2
462	A Novel Angle Sampling Algorithm for 3D Spatial Channel Models. , 2019, , .		0
463	Platypus: Offchain Protocol Without Synchrony. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
464	Smart healthcare systems on improving the efficiency of healthcare services. , 2019, , .		4
465	Internet of Things for Healthcare Using Effects of Mobile Computing: A Systematic Literature Review. Wireless Communications and Mobile Computing, 2019, 2019, 1-20.	0.8	119
466	A Platform of Services to Support Community-Dwelling Older Adults Integrating FHIR and Complex Security Mechanisms. Procedia Computer Science, 2019, 160, 314-321.	1.2	5
467	A Novel Activity Recognition System for Alternative Control Strategies of a Lower Limb Rehabilitation Robot. Applied Sciences (Switzerland), 2019, 9, 3986.	1.3	15
468	A Model-Checking-Based Framework for Analyzing Ambient Assisted Living Solutions. Sensors, 2019, 19, 5057.	2.1	6
469	Increasing mobility for older travellers through engagement with technology. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 60, 172-184.	1.8	12
470	Deep Learning for Smartphone-Based Human Activity Recognition Using Multi-sensor Fusion. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 65-75.	0.2	7
471	A Real-Time Fog Computing Approach for Healthcare Environment. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 85-95.	0.5	3
472	Assistive Humanoid Robots for the Elderly with Mild Cognitive Impairment. , 2019, , 2377-2396.		2
473	Deep learning model for home automation and energy reduction in a smart home environment platform. Neural Computing and Applications, 2019, 31, 1317-1337.	3.2	58
474	A review of state-of-the-art techniques for abnormal human activity recognition. Engineering Applications of Artificial Intelligence, 2019, 77, 21-45.	4.3	162
475	Accurate detection of sitting posture activities in a secure IoT based assisted living environment. Future Generation Computer Systems, 2019, 92, 745-757.	4.9	32
476	A Privacy-Preserving Localization Service for Assisted Living Facilities. IEEE Transactions on Services Computing, 2020, 13, 16-29.	3.2	12
477	The assisted living project: a process evaluation of implementation of sensor technology in community assisted living. A feasibility study. Disability and Rehabilitation: Assistive Technology, 2020, 15, 29-36.	1.3	8
478	FriWalk robotic walker: usability, acceptance and UX evaluation after a pilot study in a real environment. Disability and Rehabilitation: Assistive Technology, 2020, 15, 718-727.	1.3	4
479	Non-intrusive human activity recognition and abnormal behavior detection on elderly people: a review. Artificial Intelligence Review, 2020, 53, 1975-2021.	9.7	56
480	An Interpretable Fuzzy DBN-Based Classifier for Indoor User Movement Prediction in Ambient Assisted Living Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 42-53.	7.2	18
481	Positive technology for elderly well-being: A review. Pattern Recognition Letters, 2020, 137, 61-70.	2.6	55

#	ARTICLE	IF	CITATIONS
482	Validation of a usability assessment instrument according to the evaluators's perspective about the users' performance. <i>Universal Access in the Information Society</i> , 2020, 19, 515-525.	2.1	9
483	Acceptability of notifications delivered to older adults by technology-based assisted living services. <i>Universal Access in the Information Society</i> , 2020, 19, 675-683.	2.1	3
484	A review on video-based active and assisted living technologies for automated lifelogging. <i>Expert Systems With Applications</i> , 2020, 139, 112847.	4.4	42
485	Active robot-assisted feeding with a general-purpose mobile manipulator: Design, evaluation, and lessons learned. <i>Robotics and Autonomous Systems</i> , 2020, 124, 103344.	3.0	57
486	Learned Integrated Sensing Pipeline: Reconfigurable Metasurface Transceivers as Trainable Physical Layer in an Artificial Neural Network. <i>Advanced Science</i> , 2020, 7, 1901913.	5.6	90
488	A Survey on Anomalous Behavior Detection for Elderly Care Using Dense-Sensing Networks. <i>IEEE Communications Surveys and Tutorials</i> , 2020, 22, 352-370.	24.8	53
489	A Statecharts-Based Approach for WSN Application Development. <i>Journal of Sensor and Actuator Networks</i> , 2020, 9, 45.	2.3	1
490	Assisted Living System with Adaptive Sensor's Contribution. <i>Sensors</i> , 2020, 20, 5278.	2.1	1
491	Accuracy and Precision Assessment of AoA-Based Indoor Positioning Systems Using Infrastructure Lighting and a Position-Sensitive Detector. <i>Sensors</i> , 2020, 20, 5359.	2.1	8
492	Abnormality Detection Approach in Smart Homes using Case-based Reasoning. , 2020, , .		1
493	On the Continuous Processing of Health Data in Edge-Fog-Cloud Computing by Using Micro/Nanoservice Composition. <i>IEEE Access</i> , 2020, 8, 120255-120281.	2.6	28
494	Non-invasive identification of swallows via deep learning in high resolution cervical auscultation recordings. <i>Scientific Reports</i> , 2020, 10, 8704.	1.6	37
495	Managing sensor data streams in a smart home application. <i>International Journal of Sensor Networks</i> , 2020, 32, 247.	0.2	4
496	A proposal for a healthcare environment with a real-time approach. <i>International Journal of Grid and Utility Computing</i> , 2020, 11, 398.	0.1	2
497	Toward Ambient Assistance: a Spatially-aware Virtual Assistant eNabled by Object Detection. , 2020, , .		3
498	Evaluation of convolutional neural networks for the classification of falls from heterogeneous thermal vision sensors. <i>International Journal of Distributed Sensor Networks</i> , 2020, 16, 155014772092048.	1.3	6
499	Activity recognition using wearable sensors for tracking the elderly. <i>User Modeling and User-Adapted Interaction</i> , 2020, 30, 567-605.	2.9	30
500	A Scoping Review of the Conceptual Differentiation of Technology for Healthy Aging. <i>Gerontologist</i> , The, 2021, 61, e345-e369.	2.3	8

#	ARTICLE	IF	CITATIONS
501	Toward Kinecting cognition by behaviour recognition-based deep learning and big data. <i>Universal Access in the Information Society</i> , 2022, 21, 33-51.	2.1	2
502	A service-oriented edge platform for cyber-physical systems. <i>CCF Transactions on Pervasive Computing and Interaction</i> , 2020, 2, 206-217.	1.7	7
503	Mobile Sensor-Based Fall Detection Framework. , 2020, , .		5
504	Sensor2Vec: an Embedding Learning for Heterogeneous Sensors for Activity Classification. , 2020, , .		2
505	Towards Active Learning Interfaces for Multi-Inhabitant Activity Recognition. , 2020, , .		1
506	Skeletal Data based Activity Recognition System. , 2020, , .		8
507	Deep learning methods for fingerprint-based indoor positioning: a review. <i>Journal of Location Based Services</i> , 2020, 14, 129-200.	1.4	45
508	E-ALPHA: Edge-based Assisted Living Platform for Home cAre. , 2020, , .		0
509	Evolving models for incrementally learning emerging activities. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2020, 12, 313-325.	0.8	4
510	Sensor Failure Detection in Ambient Assisted Living Using Association Rule Mining. <i>Sensors</i> , 2020, 20, 6760.	2.1	7
511	Ambient assisted living and European funds: a bibliometric approach. <i>Information Technology and People</i> , 2021, 34, 1740-1767.	1.9	1
512	Passive Observer of Activities for Aging in Place Using a Network of RGB-D Sensors. <i>International Journal of Telemedicine and Applications</i> , 2020, 2020, 1-15.	1.1	3
513	Handbook of Integration of Cloud Computing, Cyber Physical Systems and Internet of Things. <i>Scalable Computing and Communications</i> , 2020, , .	0.5	1
514	Multimodal Sensor Data Integration for Indoor Positioning in Ambient-Assisted Living Environments. <i>Mobile Information Systems</i> , 2020, 2020, 1-16.	0.4	5
515	The AAL/Care Laboratory â€™ a healthcare prevention system for caregivers. <i>Nanomaterials and Energy</i> , 2020, 9, 27-38.	0.1	12
516	The impact of connected health technologies on the quality of service delivered by home care companies: Focus on trust and social presence. <i>Health Marketing Quarterly</i> , 2021, 38, 287-296.	0.6	8
517	IoT Wearable Sensors and Devices in Elderly Care: A Literature Review. <i>Sensors</i> , 2020, 20, 2826.	2.1	160
518	Sensor-based characterization of daily walking: a new paradigm in pre-frailty/frailty assessment. <i>BMC Geriatrics</i> , 2020, 20, 164.	1.1	25

#	ARTICLE	IF	CITATIONS
519	Modelling Patient Behaviour Using IoT Sensor Data: a Case Study to Evaluate Techniques for Modelling Domestic Behaviour in Recovery from Total Hip Replacement Surgery. Journal of Healthcare Informatics Research, 2020, 4, 238-260.	5.3	11
520	Indoor Air Quality Monitoring Systems for Enhanced Living Environments: A Review toward Sustainable Smart Cities. Sustainability, 2020, 12, 4024.	1.6	43
521	Detecting Activities of Daily Living and Routine Behaviours in Dementia Patients Living Alone Using Smart Meter Load Disaggregation. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 157-169.	3.2	48
522	Discovering Human Activities from Binary Data in Smart Homes. Sensors, 2020, 20, 2513.	2.1	4
523	Current and Emerging Technologies for Supporting Successful Aging. , 2020, , 717-736.		1
524	A Comparison of Machine Learning Algorithms for Fall Detection using Wearable Sensors. , 2020, , .		15
525	Biobanks in the era of big data: objectives, challenges, perspectives, and innovations for predictive, preventive, and personalised medicine. EPMA Journal, 2020, 11, 333-341.	3.3	22
526	Analysis of the Hands in Egocentric Vision: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 6846-6866.	9.7	46
527	Extraction of User Daily Behavior From Home Sensors Through Process Discovery. IEEE Internet of Things Journal, 2020, 7, 8440-8450.	5.5	6
528	IoT supported smart home for the elderly. Internet of Things (Netherlands), 2020, 11, 100239.	4.9	48
529	Towards a Robust WiFi-based Fall Detection with Adversarial Data Augmentation. , 2020, , .		4
530	Development of an Optical Signal-Based IPS from an MCU-SoC. Electronics (Switzerland), 2020, 9, 782.	1.8	4
532	Highly-efficient fog-based deep learning AAL fall detection system. Internet of Things (Netherlands), 2020, 11, 100185.	4.9	38
533	Edge Vibration Improves Ability to Discriminate Roughness Difference of Adjoining Areas. IEEE Transactions on Haptics, 2020, 13, 211-218.	1.8	0
534	Context awareness architecture for ambient-assisted living applications: Case study of nighttime wandering. Journal of Rehabilitation and Assistive Technologies Engineering, 2020, 7, 205566831988786.	0.6	6
535	Analysis of Multiple-Access Discrimination Techniques for the Development of a PSD-Based VLP System. Sensors, 2020, 20, 1717.	2.1	12
536	DeepContext: Parameterized Compatibility-Based Attention CNN for Human Context Recognition. , 2020, , .		8
537	A review and categorization of techniques on device-free human activity recognition. Journal of Network and Computer Applications, 2020, 167, 102738.	5.8	89

#	ARTICLE	IF	CITATIONS
538	Age-Friendly Environments in ASEAN Plus Three: Case Studies from Japan, Malaysia, Myanmar, Vietnam, and Thailand. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4523.	1.2	12
539	Augmenting an Assisted Living Lab with Non-Intrusive Load Monitoring. , 2020, , .		10
540	I-feed: A robotic platform of an assistive feeding robot for the disabled elderly population. <i>Technology and Health Care</i> , 2020, 28, 425-429.	0.5	4
541	Errata to "Performance Evaluation of Phase and Weather-Based Models in Atmospheric Correction With Sentinel-1Data: Corvara Landslide in the Alps" [Mar 20 1332-1346]. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 1728-1728.	2.3	0
542	Triaxial Accelerometer-Based Falls and Activities of Daily Life Detection Using Machine Learning. <i>Sensors</i> , 2020, 20, 3777.	2.1	12
543	Anomaly Detection in Activities of Daily Living with Linear Drift. <i>Cognitive Computation</i> , 2020, 12, 1233-1251.	3.6	3
545	A Systematic Review on Fusion Techniques and Approaches Used in Applications. <i>IEEE Access</i> , 2020, 8, 14424-14439.	2.6	19
546	Series DC Arc Fault Detection Based on Ensemble Machine Learning. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 7826-7839.	5.4	88
547	Data Mining Technique based Ambient Assisted Living for Elderly People. , 2020, , .		1
548	Internet of Things for Enhanced Smart Cities: A Review, Roadmap and Case Study on Air Quality Sensing. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 109-121.	0.2	0
549	Access control for Internet of Things-enabled assistive technologies: an architecture, challenges and requirements. , 2020, , 1-43.		9
550	Assistive sensing technology for the elderly health monitoring. , 2020, , 185-223.		2
551	Toward unsupervised multiresident tracking in ambient assisted living: methods and performance metrics. , 2020, , 249-280.		2
552	Modified indel treatment for accurate Phylogenetic Tree construction. , 2020, , .		0
553	Estimation of Mobile Point Distance based on the Signal Strength of Wireless Network Routers. <i>IEEE Latin America Transactions</i> , 2020, 18, 120-129.	1.2	2
554	Inertial sensor-based human activity recognition via ensemble extreme learning machines optimized by quantum-behaved particle swarm. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 38, 1443-1453.	0.8	5
555	An intelligent knowledge system for designing, modeling, and recognizing the behavior of elderly people in smart space. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 6059-6075.	3.3	6
556	Empowering Caregivers to Customizing the Assistive Computing Support of Older Adults - an End-User Domain-Specific Approach. <i>International Journal of Human-Computer Interaction</i> , 2020, 36, 1447-1459.	3.3	2

#	ARTICLE	IF	CITATIONS
557	Robot DE NIRO: A Human-Centered, Autonomous, Mobile Research Platform for Cognitively-Enhanced Manipulation. <i>Frontiers in Robotics and AI</i> , 2020, 7, 66.	2.0	4
558	Health and wellness monitoring using ambient sensor networks. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2020, 12, 139-151.	0.8	11
559	Direction and distance sensors and sensing system for elderly people. <i>Materials Today: Proceedings</i> , 2021, 34, 667-674.	0.9	6
560	Human Behavior Model-Based Predictive Control of Longitudinal Brain-Controlled Driving. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 1361-1374.	4.7	16
561	A new health care system enabled by machine intelligence: Elderly people's trust or losing self control. <i>Technological Forecasting and Social Change</i> , 2021, 162, 120334.	6.2	63
562	A review of Hidden Markov models and Recurrent Neural Networks for event detection and localization in biomedical signals. <i>Information Fusion</i> , 2021, 69, 52-72.	11.7	27
563	Activity recognition and anomaly detection in smart homes. <i>Neurocomputing</i> , 2021, 423, 362-372.	3.5	48
564	Recognition of human activities for wellness management using a smartphone and a smartwatch: A boosting approach. <i>Decision Support Systems</i> , 2021, 140, 113426.	3.5	33
565	Cultural Impact on Perceptions of Aging, Care, and Lifelogging Technology: A Comparison between Turkey and Germany. <i>International Journal of Human-Computer Interaction</i> , 2021, 37, 156-168.	3.3	8
566	IoT technologies for Augmented Human: A survey. <i>Internet of Things (Netherlands)</i> , 2021, 14, 100120.	4.9	14
567	Towards Integrating the Gene Ontology and the Hierarchical Bayesian Network Classification Model: An Empirical Case Study. <i>Information Technology in Industry</i> , 2019, 7, .	0.2	0
568	Self-Organizing IoT Device-Based Smart Diagnosing Assistance System for Activities of Daily Living. <i>Sensors</i> , 2021, 21, 785.	2.1	2
569	Unobtrusive Health Monitoring in Private Spaces: The Smart Home. <i>Sensors</i> , 2021, 21, 864.	2.1	66
570	Assistive Care Robots and Older Adults: Employing a Care Ethics Lens. <i>Canadian Journal of Bioethics</i> , 0, 4, 101-106.	0.0	0
571	Remote Healthcare Monitoring for Parkinsonâ€™s Disease in a Smart Way. <i>Internet of Things</i> , 2021, , 137-158.	1.3	0
572	Detecting Anomaly and Its Sources in Activities of Daily Living. <i>SN Computer Science</i> , 2021, 2, 1.	2.3	13
573	A Machine Learning Multi-Class Approach for Fall Detection Systems Based on Wearable Sensors with a Study on Sampling Rates Selection. <i>Sensors</i> , 2021, 21, 938.	2.1	27
574	Elderly in Outdoors: Naturalistic Observations in a Public Park. <i>Lecture Notes in Networks and Systems</i> , 2021, , 1152-1158.	0.5	1

#	ARTICLE	IF	CITATIONS
575	Smart architectures for evaluating the autonomy and behaviors of people with autism spectrum disorder in smart homes. , 2021, , 55-76.		1
576	Implicit Intention Communication for Activities of Daily Living of Elder/Disabled People to Improve Well-Being. Studies in Computational Intelligence, 2021, , 325-342.	0.7	8
577	A Comparative Survey of Feature Extraction and Machine Learning Methods in Diverse Acoustic Environments. Sensors, 2021, 21, 1274.	2.1	22
578	Directing and Orienting ICT Healthcare Solutions to Address the Needs of the Aging Population. Healthcare (Switzerland), 2021, 9, 147.	1.0	28
579	Deep Recurrent Q Reinforcement Learning model to Predict the Alzheimer Disease using Smart Home Sensor Data. IOP Conference Series: Materials Science and Engineering, 2021, 1074, 012014.	0.3	8
580	An Ambient Intelligence-Based Human Behavior Monitoring Framework for Ubiquitous Environments. Information (Switzerland), 2021, 12, 81.	1.7	63
581	Video Cameras for Lifelogging at Home: Preferred Visualization Modes, Acceptance, and Privacy Perceptions among German and Turkish Participants. International Journal of Human-Computer Interaction, 2021, 37, 1436-1454.	3.3	13
582	Acceptance of Technologies for Aging in Place: A Conceptual Model. Journal of Medical Internet Research, 2021, 23, e22613.	2.1	22
583	Explainable Activity Recognition over Interpretable Models. , 2021, , .		2
584	Mobile Health in Remote Patient Monitoring for Chronic Diseases: Principles, Trends, and Challenges. Diagnostics, 2021, 11, 607.	1.3	81
585	Diffuse field cross-correlation in a programmable-metasurface-stirred reverberation chamber. Applied Physics Letters, 2021, 118, .	1.5	4
586	IoT-Based Smart Healthcare System: A Review on Constituent Technologies. Journal of Circuits, Systems and Computers, 2021, 30, 2130008.	1.0	9
587	Optimizing Design of Smart Workplace through Multi-Objective Programming. Applied Sciences (Switzerland), 2021, 11, 3042.	1.3	3
588	A Multipurpose Platform for Ambient Assisted Living (ActiveAdvice): Usability Study. JMIR Aging, 2021, 4, e18164.	1.4	4
589	Evaluating the Impact of Different Symmetrical Models of Ambient Assisted Living Systems. Symmetry, 2021, 13, 450.	1.1	19
591	Relay-based Communications in WBANs. ACM Computing Surveys, 2022, 54, 1-34.	16.1	9
592	Social acceptance of serious games for physical and cognitive training in older adults residing in ambient assisted living environments. Zeitschrift Fur Gesundheitswissenschaften, 2022, 30, 63-75.	0.8	5
593	Towards a data-driven adaptive anomaly detection system for human activity. Pattern Recognition Letters, 2021, 145, 200-207.	2.6	28

#	ARTICLE	IF	CITATIONS
594	COPri v.2 "A core ontology for privacy requirements. Data and Knowledge Engineering, 2021, 133, 101888.	2.1	14
595	Non-invasive technique for real-time myocardial infarction detection using faster R-CNN. Multimedia Tools and Applications, 2021, 80, 26939-26967.	2.6	8
596	Is RRI a new R&I logic? A reflection from an integrated RRI project. Journal of Responsible Technology, 2021, 5, 100007.	1.2	6
597	Privacy-Preserving Learning of Human Activity Predictors in Smart Environments. , 2021, , .		4
598	Requirement Elicitation and Prototype Development of an Intelligent Environment to Support People With Early Dementia. , 2021, , .		1
599	Ambient Sound Recognition of Daily Events by Means of Convolutional Neural Networks and Fuzzy Temporal Restrictions. Applied Sciences (Switzerland), 2021, 11, 6978.	1.3	5
600	Guest Editorial Assistive Computing Technologies for Human Well-Being. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1231-1233.	3.2	1
601	Real time fall detection using infrared cameras and reflective tapes under day/night luminance. Journal of Ambient Intelligence and Smart Environments, 2021, 13, 285-300.	0.8	6
602	Smart Cities™ Applications to Facilitate the Mobility of Older Adults: A Systematic Review of the Literature. Applied Sciences (Switzerland), 2021, 11, 6395.	1.3	18
603	Passive RFID Module With LSTM Recurrent Neural Network Activity Classification Algorithm for Ambient-Assisted Living. IEEE Internet of Things Journal, 2021, 8, 10953-10962.	5.5	23
604	Insights Into the Older Adults' World: Concepts of Aging, Care, and Using Assistive Technology in Late Adulthood. Frontiers in Public Health, 2021, 9, 653931.	1.3	11
605	Ethics and acceptance of smart homes for older adults. Informatics for Health and Social Care, 2022, 47, 10-37.	1.4	39
606	Prospects of Robots in Assisted Living Environment. Electronics (Switzerland), 2021, 10, 2062.	1.8	5
607	Clinically-validated technologies for assisted living. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 2095-2116.	3.3	14
609	Estimating Indoor Occupancy Through Low-Cost BLE Devices. IEEE Sensors Journal, 2021, 21, 17053-17063.	2.4	22
610	Real-Time Action Recognition System for Elderly People Using Stereo Depth Camera. Sensors, 2021, 21, 5895.	2.1	22
611	Providing music service in Ambient Intelligence: experiments with gym users. Expert Systems With Applications, 2021, 177, 114951.	4.4	18
612	Comparing Human Activity Recognition Models Based on Complexity and Resource Usage. Applied Sciences (Switzerland), 2021, 11, 8473.	1.3	9

#	ARTICLE	IF	CITATIONS
613	Insights on an automated fall detection device designed for older adult wheelchair and scooter users: A qualitative study. <i>Disability and Health Journal</i> , 2022, 15, 101207.	1.6	5
614	The promises and the reality of smart, digital telecare in England. <i>Housing, Care and Support</i> , 2021, 24, 65-79.	0.2	4
615	Users' Preferences for Smart Home Automation – Investigating Aspects of Privacy and Trust. <i>Telematics and Informatics</i> , 2021, 64, 101689.	3.5	29
617	AI-Enabled Sensing and Decision-Making for IoT Systems. <i>Complexity</i> , 2021, 2021, 1-9.	0.9	16
618	Efficient Data Aggregation for Human Activity Detection with Smart Home Sensor Network Using K-Means Clustering Algorithm. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 9-15.	0.3	2
619	Towards the Integration of Internet of Things Devices to Monitor Older Adults Activities in a Platform of Services. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 571-580.	0.5	0
620	Context Modelling in Ambient Assisted Living: Trends and Lessons. <i>Profiles in Operations Research</i> , 2021, , 189-225.	0.3	2
621	Device-Free Localization Using Privacy-Preserving Infrared Signatures Acquired From Thermopiles and Machine Learning. <i>IEEE Access</i> , 2021, 9, 81786-81797.	2.6	7
622	Influence of Age on Trade-Offs Between Benefits and Barriers of AAL Technology Usage. <i>Lecture Notes in Computer Science</i> , 2019, , 250-266.	1.0	3
624	Healthcare IoT. , 2020, , 515-545.		47
625	Internet of Things for Enhanced Living Environments, Health and Well-Being: Technologies, Architectures and Systems. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 616-631.	0.5	5
626	The SOCIAL Platform and the Integration of Internet of Things Devices to Monitor Activities and Behaviors of Older Adults. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 255-274.	0.9	2
627	The Influence of Privacy on the Acceptance of Technologies for Assisted Living. <i>Lecture Notes in Computer Science</i> , 2020, , 463-473.	1.0	5
628	How to Handle Data Management of Assisting Lifelogging Technologies from a User's Point of View. <i>Lecture Notes in Computer Science</i> , 2020, , 510-530.	1.0	1
629	Two Faces of Privacy: Legal and Human-Centered Perspectives of Lifelogging Applications in Home Environments. <i>Lecture Notes in Computer Science</i> , 2020, , 545-564.	1.0	5
630	Understanding Privacy and Trust in Smart Home Environments. <i>Lecture Notes in Computer Science</i> , 2020, , 513-532.	1.0	5
633	Multi-view Onboard Clustering of Skeleton Data for Fall Risk Discovery. <i>Lecture Notes in Computer Science</i> , 2014, , 258-273.	1.0	2
634	Smart Camera Reconfiguration in Assisted Home Environments for Elderly Care. <i>Lecture Notes in Computer Science</i> , 2015, , 45-58.	1.0	3

#	ARTICLE	IF	CITATIONS
635	An Integrated Approach to the Well-Being of the Elderly People at Home. Biosystems and Biorobotics, 2015, , 265-274.	0.2	3
636	AAL Technologies for Independent Life of Elderly People. Biosystems and Biorobotics, 2015, , 329-343.	0.2	10
637	Use and Adoption of a Touch-Based Occupational Therapy Tool for People Suffering from Dementia. Lecture Notes in Computer Science, 2015, , 459-468.	1.0	2
638	Spatial Modeling Factors in Sensor-Based Ambient Assisted Living Technologies Designed for Ageing Populations. Lecture Notes in Computer Science, 2015, , 367-376.	1.0	1
639	An Assisted Living Home for Alzheimerâ€™s Patient in Saudi Arabia, A Prototype. Communications in Computer and Information Science, 2015, , 375-380.	0.4	2
640	Understanding the Userâ€™s Acceptance of a Sensor-Based Ambient Assisted Living Application. Lecture Notes in Computer Science, 2015, , 13-25.	1.0	3
641	Smart Tales: An Awareness Game for Ambient Assisted Living. Lecture Notes in Computer Science, 2015, , 187-204.	1.0	3
642	A Mechanism for Nominating Video Clips to Provide Assistance for Instrumental Activities of Daily Living. Lecture Notes in Computer Science, 2015, , 65-76.	1.0	3
643	User Interface Design for Ambient Assisted Living Systems. Lecture Notes in Computer Science, 2016, , 35-45.	1.0	4
644	Changing Patterns of ICT Use in Finland â€“ The Senior Citizensâ€™ Perspective. Lecture Notes in Computer Science, 2016, , 226-237.	1.0	6
645	Interaction Design of Products for the Elderly in Smart Home Under the Mode of Medical Care and Pension. Lecture Notes in Computer Science, 2016, , 145-156.	1.0	9
646	Do We Need an Integrated Framework for Ambient Assisted Living?. Lecture Notes in Computer Science, 2016, , 52-63.	1.0	7
647	Visual End-User Programming of Personalized AAL in the Internet of Things. Lecture Notes in Computer Science, 2017, , 159-174.	1.0	2
648	Privacy, Data Security, and the Acceptance of AAL-Systems â€“ A User-Specific Perspective. Lecture Notes in Computer Science, 2017, , 38-56.	1.0	15
649	Reliability of AAL Systems Modeled as BPMN Business Processes. Lecture Notes in Business Information Processing, 2017, , 535-550.	0.8	1
650	A Smart Cabinet and Voice Assistant to Support Independence in Older Adults. Lecture Notes in Computer Science, 2017, , 466-472.	1.0	10
651	Integrating a Humanoid Robot into ECHONET-Based Smart Home Environments. Lecture Notes in Computer Science, 2017, , 314-323.	1.0	5
652	Discovering Process Models of Activities of Daily Living from Sensors. Lecture Notes in Business Information Processing, 2018, , 285-297.	0.8	5

#	ARTICLE	IF	CITATIONS
653	User-Specific Concepts of Aging – A Qualitative Approach on AAL-Acceptance Regarding Ultrasonic Whistles. Lecture Notes in Computer Science, 2018, , 231-249.	1.0	5
654	EmLog: Tamper-Resistant System Logging for Constrained Devices with TEEs. Lecture Notes in Computer Science, 2018, , 75-92.	1.0	7
656	Specifying an MQTT Tree for a Connected Smart Home. Lecture Notes in Computer Science, 2018, , 236-246.	1.0	6
657	Monitoring the Habits of Elderly People through Data Mining from Home Automation Devices Data. Lecture Notes in Computer Science, 2013, , 343-354.	1.0	7
658	Technik und Demenz. , 2019, , 239-255.		4
659	Assistive Humanoid Robots for the Elderly with Mild Cognitive Impairment. , 2017, , 1-20.		4
660	Smart Cabin: A Semantic-Based Framework for Indoor Comfort Customization Inside a Cruise Cabin. Advances in Intelligent Systems and Computing, 2020, , 41-53.	0.5	4
661	Location-aware systems or location-based services: a survey with applications to CoViD-19 contact tracking. Journal of Reliable Intelligent Environments, 2020, 6, 191-214.	3.8	17
664	Human Activity Recognition using Smartphone Sensors and Beacon-based Indoor Localization for Ambient Assisted Living Systems. , 2020, , .		7
665	Evaluation of Feature Extraction and Recognition for Human Activity using Smartphone based Accelerometer data. , 2019, , .		2
666	On the Development of a Resident Monitoring System: Usability, Privacy and Security aspects. , 2020, , .		1
667	INNOVATING WITH SERVICE ROBOTS IN HEALTH AND WELFARE LIVING LABS. International Journal of Innovation Management, 2017, 21, 1740013.	0.7	6
668	A Unifying Notification System To Scale Up Assistive Services. , 2015, , .		13
669	Human presence detection by monitoring the indoor CO_2 concentration. , 2020, , .		4
670	A Daily Activity Monitoring System for Internet of Things-Assisted Living in Home Area Networks. International Journal of Electrical and Computer Engineering, 2016, 6, 399.	0.5	4
671	Top-down Spatial Attention for Visual Search: Novelty Detection-Tracking Using Spatial Memory with a Mobile Robot. Advances in Image and Video Processing, 2014, 2, .	0.1	4
672	SARF: Smart Activity Recognition Framework in Ambient Assisted Living. , 0, , .		20
673	Using Finger Dexterity in Elderly and Younger People to Detect Cognitive Decline. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2017, 21, 330-336.	0.5	3

#	ARTICLE	IF	CITATIONS
674	Feature Extraction of Mild Cognitive Impairment Using a Dual-Task of Drawing and Counting Test. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2019, 23, 874-882.	0.5	2
675	Ambient Assisted Living as Support for Aging in Place: Quantitative Users' Acceptance Study on Ultrasonic Whistles. JMIR Aging, 2018, 1, e11825.	1.4	24
676	Serious Motion-Based Exercise Games for Older Adults: Evaluation of Usability, Performance, and Pain Mitigation. JMIR Serious Games, 2020, 8, e14182.	1.7	19
677	Overview of Policies, Guidelines, and Standards for Active Assisted Living Data Exchange: Thematic Analysis. JMIR MHealth and UHealth, 2020, 8, e15923.	1.8	14
678	Depth Cameras in AAL Environments. Advances in Medical Technologies and Clinical Practice Book Series, 2015, , 22-41.	0.3	1
679	Depth Cameras in AAL Environments. , 2015, , 1056-1075.		2
680	Diabetes Patients Monitoring by Cloud Computing. Advances in Healthcare Information Systems and Administration Book Series, 0, , 99-116.	0.2	4
681	Ambient Assisted Living and Internet of Things. Advances in Computer and Electrical Engineering Book Series, 2019, , 100-115.	0.2	33
682	Methodical IoT-Based Information System in Healthcare. Advances in Healthcare Information Systems and Administration Book Series, 2020, , 155-177.	0.2	9
683	Measuring Regularity in Daily Behavior for the Purpose of Detecting Alzheimer. , 2016, , .		3
684	RFID Systems in Healthcare Settings and Activity of Daily Living in Smart Homes: A Review. E-health Telecommunication Systems and Networks, 2017, 06, 1-17.	0.7	17
685	Behavioral Biometrics in Assisted Living: A Methodology for Emotion Recognition. Engineering, Technology & Applied Science Research, 2016, 6, 1035-1044.	0.8	2
686	A TV-based ICT Platform for Active Ageing, Tele-care and Social Networking. , 2015, , .		5
688	IoT Technologies Offer New Potentials for People with Disabilities. , 2021, , .		5
689	Intelligent assistive technology devices for persons with dementia: A scoping review. Assistive Technology, 2021, , 1-14.	1.2	9
690	Enhancement of a Body Area Network to support Smart Health monitoring at the digital home. , 2013, , .		1
691	Inferring Model Structures from Inertial Sensor Data in Distributed Activity Recognition. Lecture Notes in Computer Science, 2013, , 62-77.	1.0	0
692	A Database-Centric Architecture for Home-Based Health Monitoring. Lecture Notes in Computer Science, 2013, , 26-34.	1.0	0

#	ARTICLE	IF	CITATIONS
693	A Distributed Cooperative Architecture for Robotic Networks with Application to Ambient Intelligence. Lecture Notes in Computer Science, 2014, , 1-12.	1.0	1
694	The Caregiver Perspective: An Assistive AAL Platform. Lecture Notes in Computer Science, 2014, , 304-311.	1.0	0
695	Towards Ambient Intelligent Care and Assistance Systems for Patients with Dementia. Lecture Notes in Computer Science, 2015, , 297-309.	1.0	1
697	Assistive Technology for Risks Affecting Elderly People in Outdoor Environment. , 2015, , .		1
698	Why Should I Use This? Identifying Incentives for Using AAL Technologies. Lecture Notes in Computer Science, 2015, , 155-170.	1.0	2
699	A Novel Infrastructure for Supporting Display Ecologies. Lecture Notes in Computer Science, 2015, , 722-732.	1.0	0
700	Snippet Based Trajectory Statistics Histograms for Assistive Technologies. Lecture Notes in Computer Science, 2015, , 3-16.	1.0	0
701	Development of a Smart Wearable Device for Human Activity and Biometric Data Measurement. International Journal of Control and Automation, 2015, 8, 45-52.	0.3	0
702	Embedding engineers in elderly care homes when researching new technologies for care. Anthropology and Aging, 2015, 36, 135-144.	0.4	0
703	Agent-Based Simulation for Identifying the Key Advantages of Intelligent Environments for Inhabitants with Special Needs. Lecture Notes in Electrical Engineering, 2016, , 1031-1041.	0.3	0
705	SmartRL: A Context-Sensitive, Ontology-Based Rule Language for Assisted Living in Smart Environments. Lecture Notes in Computer Science, 2016, , 341-349.	1.0	1
706	AndroidCare: A Simple and Low Cost Assisted Living Solution. Journal of Biomedical Science and Engineering, 2016, 09, 20-28.	0.2	0
707	CAMI - An Integrated Architecture Solution for Improving Quality of Life of the Elderly. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 141-144.	0.2	1
708	Zone-Based Living Activity Recognition Scheme Using Markov Logic Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 109-117.	0.2	0
710	Home Care Systems for the Management of Patients with Mental Disorders. Advances in Medical Diagnosis, Treatment, and Care, 2016, , 382-411.	0.1	0
711	Reviews and Taxonomies. SpringerBriefs in Computer Science, 2016, , 23-34.	0.2	0
713	Smart Spray-on Clothing for Disabled and Older Adults in AAL Settings. , 2016, , .		0
714	Aging, Cognition, and Technology Systems. Computers in Health Care, 2017, , 253-270.	0.2	0

#	ARTICLE	IF	CITATIONS
715	Evaluating Human Activity-Based Ambient Lighting Displays for Effective Peripheral Communication. , 2017, , .		2
716	IoT for Ambient Assisted Living. Advances in Medical Technologies and Clinical Practice Book Series, 2017, , 66-97.	0.3	0
717	Visual Confusion Recognition in Movement Patterns from Walking Path and Motion Energy. Lecture Notes in Computer Science, 2017, , 124-135.	1.0	0
718	Towards Pervasive Predictive Analytics in Interactive Prevention and Rehabilitation for Older People. Communications in Computer and Information Science, 2017, , 1-11.	0.4	0
719	Improving Accuracy of Occupancy Detection by Estimating Actual Demand from Smart Meter Data. IEEE Transactions on Electronics, Information and Systems, 2017, 137, 1296-1303.	0.1	3
721	Towards Autonomically-Capable Processes: A Vision and Potentially Supportive Methods. Intelligent Systems Reference Library, 2017, , 79-125.	1.0	0
722	Home Care Systems for the Management of Patients with Mental Disorders. , 2017, , 881-910.		0
723	Healthcare Computer Reasoning Addressing Chronically Ill Societies Using IoT. Advances in Healthcare Information Systems and Administration Book Series, 2017, , 32-48.	0.2	0
725	Development of a Monitoring System Based on Power Consumption. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 363-372.	0.5	0
726	Implementation and Evaluation of Analog-PIR-Sensor-Based Activity Recognition. SICE Journal of Control Measurement and System Integration, 2017, 10, 385-392.	0.4	3
727	Paths and Technologies in the Life Project of People with Disabilities: International Perspectives and Educational Potential. Research on Education and Media, 2017, 9, 40-54.	0.2	0
728	Data Protection in Elderly Health Care Platforms. Lecture Notes in Computer Science, 2018, , 233-244.	1.0	0
729	IoT for Ambient Assisted Living. , 2018, , 161-187.		1
730	A Collaborative Virtual Game to Support Activity and Social Engagement for Older Adults. Lecture Notes in Computer Science, 2018, , 192-204.	1.0	6
731	Chapitre 9. Évaluation multidimensionnelle de technologies d'assistance à domicile: l'exemple d'une application pour le bien-vieillir en Espagne. , 2018, , 165-182.		0
733	Inertial Sensor Based Human Activity Recognition via Reduced Kernel PCA. Internet of Things, 2019, , 447-456.	1.3	1
735	Healthcare Computer Reasoning Addressing Chronically Ill Societies Using IoT. , 2019, , 720-736.		1
736	The Dilemma and Countermeasure of Technology Application of State-run Nursing Home Facing Smart Endowment. , 0, , .		0

#	ARTICLE	IF	CITATIONS
737	Smarter Homes for Older Adults: Building a Framework Around Types and Levels of Autonomy. Lecture Notes in Computer Science, 2019, , 305-313.	1.0	1
738	An IoT Architecture of Microservices for Ambient Assisted Living Environments to Promote Aging in Smart Cities. Lecture Notes in Computer Science, 2019, , 154-167.	1.0	7
739	Secure Framework for Ambient Assisted Living System. Communications in Computer and Information Science, 2019, , 425-440.	0.4	1
740	Older Usersâ€™ Benefit and Barrier Perception of Using Ultrasonic Whistles in Home Care. Lecture Notes in Computer Science, 2019, , 121-139.	1.0	2
741	Grundlagen der Navigation in komplexen Umgebungen. , 2019, , 13-30.		0
742	Indoor Location and Tracking System Using Computer Vision. Lecture Notes in Computer Science, 2019, , 613-624.	1.0	0
743	Influence of User Factors on the Acceptance of Ambient Assisted Living Technologies in Professional Care Contexts. Communications in Computer and Information Science, 2019, , 1-25.	0.4	1
744	Home Care Systems for the Management of Patients With Mental Disorders. , 2019, , 72-101.		0
745	Fuzzy Feature Representation with Bidirectional Long Short-Term Memory for Human Activity Modelling and Recognition. Advances in Intelligent Systems and Computing, 2020, , 15-26.	0.5	1
746	Using Low-Level Sensory Data to Recognize Events in a Smart Home. Advances in Intelligent Systems and Computing, 2020, , 1275-1284.	0.5	0
747	Technology-Enabled Long-Term Care Services and Supports (T-eLTCSS) in Home Settings. , 2020, , 1-8.		0
748	Remote Monitoring and Recognition of Physical Activities of Elderly People Using Smartphone Accelerometer Sensor Data Using Deep Learning Models. Health Information Systems and the Advancement of Medical Practice in Developing Countries, 2020, , 90-100.	0.1	0
750	Using Augmented Reality and Ontologies to Co-design Assistive Technologies in Smart Homes. , 2020, , .		3
751	How Age and Health Status Impact Attitudes towards Aging and Technologies in Care: A Quantitative Study (Preprint). JMIR Aging, 0, , .	1.4	0
754	Investigation of Different Time-Series Segmented Windows from Inertial Sensor for Field Hockey Activity Recognition. Lecture Notes in Bioengineering, 2020, , 299-310.	0.3	0
756	Deep Learning-based Symbolic Indoor Positioning using the Serving eNodeB. , 2020, , .		1
757	Towards the Development of an Adaptive System for Detecting Anomaly in Human Activities. , 2020, , .		2
758	Internet of Medical Things (IoMT) Enabled TeleCOVID System for Diagnosis of COVID-19 Patients. , 2021, , 253-274.		2

#	ARTICLE	IF	CITATIONS
759	Experiences and Challenges of Providing IoT-Based Care for Elderly in Real-Life Smart Home Environments. Scalable Computing and Communications, 2020, , 255-271.	0.5	6
760	May Technology Support Aging? Diverse Users's Opinions on Aging and Use of Health-Supporting Technology. Communications in Computer and Information Science, 2020, , 16-40.	0.4	0
761	Hexagram Linkage: An Ambient Assistive Living System with Healthcare for Elderly People Living Alone. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 343-362.	0.2	1
762	QoS-Aware Data Dissemination Mechanisms for Wireless Body Area Networks. Advances in Medical Technologies and Clinical Practice Book Series, 2020, , 74-96.	0.3	0
763	Early Detection of Dementia. , 2020, , 1963-1988.		1
765	Early Detection of Dementia. Advances in Psychology, Mental Health, and Behavioral Studies, 0, , 74-106.	0.1	0
766	Internet of Things Sensor Data Analysis for Enhanced Living Environments: A Literature Review and a Case Study Results on Air Quality Sensing. Studies in Computational Intelligence, 2021, , 397-414.	0.7	0
767	Towards an Augmented Reality Cognitive Orthosis to Assist people with Alzheimer's disease. , 2020, , .		4
768	Attitudes and Behaviours in Relation to New Technology in Transport and the Take-Up amongst Older Travellers. , 0, , .		0
769	Ageing population supported by ambient-assisted living in the Kingdom of Saudi Arabia. , 2022, , 43-78.		1
770	uHealth: Smart Clothing Enabled Intelligent Ubiquitous Health Monitoring System. , 2021, , .		1
771	Caregiver development of activity-supporting services for smart homes. Journal of Ambient Intelligence and Smart Environments, 2021, 13, 453-471.	0.8	1
772	Cost-effective vital signs monitoring system for COVID-19 patients in smart hospital. Health and Technology, 2022, 12, 239-253.	2.1	12
773	Design of a seniors and Alzheimer's disease caring service platform. BMC Medical Informatics and Decision Making, 2021, 21, 273.	1.5	4
774	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.	5.5	6
775	Profile Recognition for Accessibility and Inclusivity in Smart Cities Using a Thermal Imaging Sensor in an Embedded System. IEEE Internet of Things Journal, 2022, 9, 7491-7509.	5.5	4
777	Designing Smart Healthcare Systems Using Fuzzy Relations. Lecture Notes in Networks and Systems, 2021, , 1041-1052.	0.5	0
778	Technology-Enabled Long-Term Care Services and Supports (T-eLTCSS) in Home Settings. , 2021, , 4933-4940.		0

#	ARTICLE	IF	CITATIONS
779	Modelling and Verification of Context-Aware Intelligent Assistive Formalism. Computers, Materials and Continua, 2022, 71, 3355-3373.	1.5	2
780	Internet of health things driven deep learning-based system for non-invasive patient discomfort detection using time frame rules and pairwise keypoints distance feature. Sustainable Cities and Society, 2022, 79, 103672.	5.1	11
781	Reducing Caregiver's Physical Strain in Manual Patient Transfer with Robot Support. , 2020, , .		5
782	Ambient Assisted Living an Overview of Current Applications, End-Users and Acceptance. Biomedical Journal of Scientific & Technical Research, 2020, 30, .	0.0	3
783	Exploiting Bluetooth Low Energy smart tags for virtual coaching. , 2021, , .		6
785	Oversampling Highly Imbalanced Indoor Positioning Data using Deep Generative Models. , 2021, , .		2
786	A Centralised Cloud-Based Monitoring System for Older Adults in a Community. , 2021, , .		0
788	Human activity recognition in artificial intelligence framework: a narrative review. Artificial Intelligence Review, 2022, 55, 4755-4808.	9.7	102
789	Privacy-Preserving Human Action Recognition with a Many-Objective Evolutionary Algorithm. Sensors, 2022, 22, 764.	2.1	3
790	From speech acts to assistance acts for cognitive assistance in ambient assisted living: how to nudge cognitively impaired people to act independently. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 11767-11793.	3.3	3
791	Internet of Things and Cloud Activity Monitoring Systems for Elderly Healthcare. Studies in Computational Intelligence, 2022, , 181-207.	0.7	4
792	Home Activities Sequence Pattern Analysis. Lecture Notes in Electrical Engineering, 2022, , 459-467.	0.3	0
793	Household Behavior Observation System Utilizing Mesh Sensor Network Consisting of Smart Taps. , 2022, , .		0
794	Recognition of Complex Human Activities for Wellness Management from Smartwatch using Deep Residual Neural Network. , 2022, , .		1
795	The Effects of Smart Home Interface Touch Button Design Features on Performance among Young and Senior Users. International Journal of Environmental Research and Public Health, 2022, 19, 2391.	1.2	17
796	OpenTera: A microservice architecture solution for rapid prototyping of robotic solutions to COVID-19 challenges in care facilities. Health and Technology, 2022, 12, 583-596.	2.1	12
798	A two-step shapelets based framework for interactional activities recognition. Multimedia Tools and Applications, 2022, 81, 17595-17614.	2.6	1
799	OntoDomus: A Semantic Model for Ambient Assisted Living System Based on Smart Homes. Electronics (Switzerland), 2022, 11, 1143.	1.8	9

#	ARTICLE	IF	CITATIONS
800	MICAR: multi-inhabitant context-aware activity recognition in home environments. Distributed and Parallel Databases, 2023, 41, 571-602.	1.0	3
801	Loneliness and Social Isolation Detection Using Passive Sensing Techniques: Scoping Review. JMIR MHealth and UHealth, 2022, 10, e34638.	1.8	17
802	Fall Detection from Smart Wearable Sensors using Deep Convolutional Neural Network with Squeeze-and-Excitation Module. , 2021, , .		15
803	Acceptance and Preferences of Using Ambient Sensor-Based Lifelogging Technologies in Home Environments. Sensors, 2021, 21, 8297.	2.1	4
804	A Hybrid Optimized LSTM Models for Human Activity Recognition with IOT Devices. International Journal of Advanced Research in Science, Communication and Technology, 0, , 182-189.	0.0	0
806	Detecting Anomalies in Daily Activity Routines of Older Persons in Single Resident Smart Homes: Proof-of-Concept Study. JMIR Aging, 2022, 5, e28260.	1.4	19
809	Opportunities for Using Health Information Technology for Elderly Care in the Emergency Departments: A Qualitative Study.. Perspectives in Health Information Management / AHIMA, American Health Information Management Association, 2022, 19, 1h.	0.0	0
810	Remote Monitoring and Recognition of Physical Activities of Elderly People Using Smartphone Accelerometer Sensor Data Using Deep Learning Models. , 2022, , 963-974.		0
811	Tracking daily routines of elderly users through acoustic sensing: An unsupervised learning approach. , 2022, , .		1
812	Interplay of Perceptions of Aging, Care, and Technology Acceptance in Older Age. International Journal of Human-Computer Interaction, 0, , 1-13.	3.3	3
813	Are Ambient Intelligence and Augmented Reality Two Sides of the Same Coin? Implications for Human-Computer Interaction. , 2022, , .		6
814	On the limits of Conditional Generative Adversarial Neural Networks to reconstruct the identification of inhabitants from IoT low-resolution thermal sensors. Expert Systems With Applications, 2022, 203, 117356.	4.4	4
815	Continuous Emotion Recognition for Long-Term Behavior Modeling through Recurrent Neural Networks. Technologies, 2022, 10, 59.	3.0	24
816	An Activity Recognition Framework for Continuous Monitoring of Non-Steady-State Locomotion of Individuals with Parkinsonâ€™s Disease. Applied Sciences (Switzerland), 2022, 12, 4682.	1.3	6
817	Integration and Deployment of Cloud-Based Assistance System in Pharaon Large Scale Pilotsâ€™Experiences and Lessons Learned. Electronics (Switzerland), 2022, 11, 1496.	1.8	1
818	Hybrid Optimized GRU-ECNN Models for Gait Recognition with Wearable IOT Devices. Computational Intelligence and Neuroscience, 2022, 2022, 1-18.	1.1	4
819	MMNet: A Model-based Multimodal Network for Human Action Recognition in RGB-D Videos. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-1.	9.7	5
820	A Mixed Reality Cognitive Orthosis to Support Older Adults in Achieving Their Daily Living Activities: Focus Group Study With Clinical Experts. JMIR Rehabilitation and Assistive Technologies, 2022, 9, e34983.	1.1	4

#	ARTICLE	IF	CITATIONS
821	A smart virtual vision system for health monitoring. , 2022, , 347-360.		1
823	Designing for Caregiving: Integrating Robotic Assistance in Senior Living Communities. , 2022, , .		3
824	Detecting Elderly Behaviors Based on Deep Learning for Healthcare: Recent Advances, Methods, Real-World Applications and Challenges. IEEE Access, 2022, 10, 69802-69821.	2.6	10
826	ECG-signal Classification Using efficient Machine Learning Approach. , 2022, , .		2
827	Identifying User Preferences of Data Handling Using Assisting Technologies. , 2022, , .		0
828	Perspectives on the Collection of Health-related Data in Long-term Care. , 2022, , .		0
829	Analyzing technology acceptance and perception of privacy in ambient assisted living for using sensor-based technologies. PLoS ONE, 2022, 17, e0269642.	1.1	3
830	iRestroom : A smart restroom cyberinfrastructure for elderly people. Internet of Things (Netherlands), 2022, 19, 100573.	4.9	2
831	Productive Aging through Intelligent Personalized Crowdsourcing. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	3
832	Multi-Agent Interaction to Assist Visually-Impaired and Elderly People. International Journal of Environmental Research and Public Health, 2022, 19, 8945.	1.2	4
833	Research on Older Personsâ€™ Access and Use of Technology in the Arab Region: Critical Overview and Future Directions. Applied Sciences (Switzerland), 2022, 12, 7258.	1.3	4
834	A Synopsis of â€œThe Impact of Motivation, Price, and Habit on Intention to Use IoT-Enabled Technology: A Correlational Studyâ€•. Journal of Cybersecurity and Privacy, 2022, 2, 662-699.	2.4	3
835	A comprehensive bibliometric analysis and visualization of smart home research. Technological Forecasting and Social Change, 2022, 184, 121975.	6.2	11
836	Können Fahrassistenzsysteme zum Erhalt der Mobilität im Alter beitragen? Eine Betrachtung aus Perspektive der Mensch-Maschine Interaktion. , 2022, , 227-250.		0
837	Ambient Assisted Living: Scoping Review of Artificial Intelligence Models, Domains, Technology, and Concerns. Journal of Medical Internet Research, 2022, 24, e36553.	2.1	17
838	Adopting Assistive Technologies in Healthcare Processes: A Chatbot for Patients with Amyotrophic Lateral Sclerosis. Lecture Notes in Electrical Engineering, 2022, , 163-174.	0.3	4
839	Assisted Living. , 2022, , 1-13.		0
840	AIFMS Autonomous Intelligent Fall Monitoring System for the Elderly Persons. International Journal of Ambient Computing and Intelligence, 2022, 13, 1-22.	0.8	0

#	ARTICLE	IF	CITATIONS
841	Automatic Fall Detection using Deep Neural Networks with Aggregated Residual Transformation. , 2022, , .		4
842	Comparison of a VR-based and a rule-based robot control method for assistance in a physical human-robot collaboration scenario. , 2022, , .		2
843	Investigation of Indoor Air Quality in Residential Buildings by Measuring CO2 Concentration and a Questionnaire Survey. Sensors, 2022, 22, 7331.	2.1	8
844	An ambient assisted living architecture for hospital at home coupled with a process-oriented perspective. Journal of Ambient Intelligence and Humanized Computing, 0, , .	3.3	9
845	Classifying simple human activity using synthetic accelerometer data. , 2022, , .		0
846	Wearable Tracking: An Effective Smartwatch Approach in Distributed Population Tracking During Pandemics. Springer Series on Bio- and Neurosystems, 2022, , 235-250.	0.2	0
847	SHPIA: A Low-Cost Multi-purpose Smart Home Platform for Intelligent Applications. IFIP Advances in Information and Communication Technology, 2022, , 217-234.	0.5	1
848	The Effect of Sensor Placement for Accurate Fall Detection based on Deep Learning Model. , 2022, , .		0
849	How Well Do Privacy-Protective Behaviours Age? The Prevalence of Privacy Heuristics Among Older Adults. Proceedings of the Human Factors and Ergonomics Society, 2022, 66, 1051-1055.	0.2	0
850	Biosensors toward behavior detection in diagnosis of alzheimerâ€™s disease. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	7
852	A survey of body sensor network security and authentication schemes. AIP Conference Proceedings, 2022, , .	0.3	0
853	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
854	Communicative capital: a key resource for humanâ€™ machine shared agency and collaborative capacity. Neural Computing and Applications, 2023, 35, 16805-16819.	3.2	2
855	CARE: Cooperation of ai Robot Enablers to Create a Vibrant Society. IEEE Robotics and Automation Magazine, 2023, 30, 8-23.	2.2	5
856	Privacy Predictive Models for Homecare Patient Sensing. , 2022, , 221-246.		0
857	Sensor Data Simulation with Wandering Behavior for the Elderly Living Alone. , 2022, , .		0
858	Designing a Mixed Reality Cognitive Orthosis to Support Independence of Older Adults from the Dementia Continuum. , 2022, , .		0
859	Interdisciplinary perspectives on privacy awareness in lifelogging technology development. Journal of Ambient Intelligence and Humanized Computing, 0, , .	3.3	0

#	ARTICLE	IF	CITATIONS
860	Seeking at-home long-term autonomy of assistive mobile robots through the integration with an IoT-based monitoring system. <i>Robotics and Autonomous Systems</i> , 2023, 161, 104346.	3.0	5
861	Delivering Digital Healthcare for Elderly: A Holistic Framework for the Adoption of Ambient Assisted Living. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 16760.	1.2	6
862	Selection of an Efficient Classification Algorithm for Ambient Assisted Living: Supportive Care for Elderly People. <i>Healthcare (Switzerland)</i> , 2023, 11, 256.	1.0	0
863	Complexity of Smart Home Setups: A Qualitative User Study on Smart Home Assistance and Implications on Technical Requirements. <i>Technologies</i> , 2023, 11, 9.	3.0	1
864	The Progress of Smart Elderly Care Research: A Scientometric Analysis Based on CNKI and WOS. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 1086.	1.2	3
865	KNN-Based Decision Model for Device Argumentation in Ambient Assisted Living. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 483-492.	0.3	0
866	Improvement in Quality of Life with Use of Ambient-Assisted Living: Clinical Trial with Older Persons in the Chilean Population. <i>Sensors</i> , 2023, 23, 268.	2.1	3
868	Healthcare 4.0: recent advancements and futuristic research directions. <i>Wireless Personal Communications</i> , 2023, 129, 933-952.	1.8	5
869	Autonomy, Identity, and Design in the COVID-19 Era. , 2023, , 263-281.		0
870	Shapes of You? Investigating the Acceptance of Video-Based AAL Technologies Applying Different Visualization Modes. <i>Sensors</i> , 2023, 23, 1143.	2.1	2
871	(Intelligent) Technical Systems in Elderly Care: The Caregivers Perspective. , 2022, , .		0
872	Acceptance and Privacy Perceptions Toward Video-based Active and Assisted Living Technologies: Scoping Review. <i>Journal of Medical Internet Research</i> , 0, 25, e45297.	2.1	1
873	At-home assessment of postural stability in parkinson's disease: a vision-based approach. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , .	3.3	0
874	Design and Development of a Low-Cost Vision-Based 6 DoF Assistive Feeding Robot for the Aged and Specially-Abled People. <i>IETE Journal of Research</i> , 0, , 1-29.	1.8	3
875	Exploring the Role of Active Assisted Living in the Continuum of Care for Older Adults: Thematic Analysis. <i>JMIR Aging</i> , 0, 6, e40606.	1.4	1
876	Experimentation of Nighttime Wandering Assistance System Based on AAL Solutions to Foster Aging at Home. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2023, , 80-93.	0.2	0
877	A Design Anthropology Critique of Active Aging as Ageism. , 2015, , 95-113.		2
878	What does the public think about artificial intelligence? A criticality map to understand bias in the public perception of AI. <i>Frontiers in Computer Science</i> , 0, 5, .	1.7	7

#	ARTICLE	IF	CITATIONS
879	THPoseLite, a Lightweight Neural Network for Detecting Pose in Thermal Images. IEEE Internet of Things Journal, 2023, , 1-1.	5.5	0
880	Internet of Things Based Smart Home Security Analysis System. , 2023, , .		2
881	Augmented Reality-based Indoor Positioning for Smart Home Automations. , 2023, , .		0
882	Behavior and Sentiment Analysis of Smart Digital Societies Using Deep Machine Learning Technologies. , 2023, , 55-85.		0
883	Application of Artificial Intelligence in Ambient Assisted Living to Support Elderly People in Smart Homes. EAI/Springer Innovations in Communication and Computing, 2023, , 145-163.	0.9	0
884	Ability + Motivation: Understanding Factors that Influence People with Cognitive Disabilities in Regularly Practicing Daily Activities. , 2023, , .		0
885	Technology-Based Education and Training System for Nursing Professionals. Communications in Computer and Information Science, 2022, , 120-138.	0.4	1
887	Smart Outdoors for Elderly: Insights from Expert Interviews. Springer Series in Design and Innovation, 2023, , 246-256.	0.2	0
890	Deep Learning Approaches for Recognizing Daily Human Activities Using Smart Home Sensors. , 2023, , .		0
893	How to Change a Light Bulb in Your Smart Home: A Digital-Twin Based Approach. , 2023, , .		0
896	Visual Ambient Assisted Living Technologies for Different Daily Activities: Users' Requirements and Data Handling Preferences. Lecture Notes in Computer Science, 2023, , 47-65.	1.0	0
897	Assisted Living and Residential Care. , 2023, , 35-59.		0
898	Cybersecurity challenges in the healthcare domain and the road ahead. AIP Conference Proceedings, 2023, , .	0.3	0
900	The Globe Project: Connecting Internet of Things and E-Health. , 2023, , .		0
904	Systematic literature review of ambient assisted living systems supported by the Internet of Things. Universal Access in the Information Society, 0, , .	2.1	0
908	Illuminating Unexplored Corners in Healthcare Space Using Ambience Intelligence. Studies in Computational Intelligence, 2023, , 269-285.	0.7	0
911	Health Care 4.0: Challenges for the Elderly with IoT. Signals and Communication Technology, 2024, , 217-235.	0.4	0
915	Wireless Body Area Networks in Healthcare. , 2023, , 29-40.		0

#	ARTICLE	IF	CITATIONS
916	Intelligent Heart Rate Monitoring from a Social Robot. Lecture Notes in Networks and Systems, 2023, , 43-52.	0.5	0
921	Unsupervised Analysis of Daily Routine Evolution for Elderly People Using Room-Level Localisation. , 2023, , .		0
923	Cloud Native Remote Monitoring Data Ecosystem for Aging Population based on Commercial AAL Sensors. , 2023, , .		0
924	Motion Detection Telemetry Radio Using LoRa. , 2023, , .		0
929	Human action recognition from depth sensor via skeletal joint and shape trajectories with a time-series graph matching. AIP Conference Proceedings, 2024, , .	0.3	0
930	Technologien zur Förderung der Autonomie von Menschen mit Demenz. Sozialtheorie, 2023, , 91-116.	0.0	0
932	IoT-driven automatic vehicle accident rescue system implemented with Proteus. , 2023, , .		0
935	A Generic Methodology for Designing Smart Environment Based on Discrete-Event Simulation: A Conceptual Model. Lecture Notes in Networks and Systems, 2024, , 459-468.	0.5	0