

Liming Chen

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

2,450
citations

21
h-index

47
g-index

124
ext. papers

3,015
ext. citations

3.1
avg, IF

5.45
L-index

#	Paper	IF	Citations
108	Sensor-Based Activity Recognition. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 790-808		569
107	A Knowledge-Driven Approach to Activity Recognition in Smart Homes. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2012 , 24, 961-974	4.2	360
106	Ontology-based activity recognition in intelligent pervasive environments. <i>International Journal of Web Information Systems</i> , 2009 , 5, 410-430	0.9	165
105	Dynamic sensor data segmentation for real-time knowledge-driven activity recognition. <i>Pervasive and Mobile Computing</i> , 2014 , 10, 155-172	3.5	105
104	. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 368-379	4.1	97
103	An Ontology-Based Hybrid Approach to Activity Modeling for Smart Homes. <i>IEEE Transactions on Human-Machine Systems</i> , 2014 , 44, 92-105	4.1	89
102	Extending knowledge-driven activity models through data-driven learning techniques. <i>Expert Systems With Applications</i> , 2015 , 42, 3115-3128	7.8	58
101	Combining ontological and temporal formalisms for composite activity modelling and recognition in smart homes. <i>Future Generation Computer Systems</i> , 2014 , 39, 29-43	7.5	51
100	Ontological user modelling and semantic rule-based reasoning for personalisation of Help-On-Demand services in pervasive environments. <i>Future Generation Computer Systems</i> , 2014 , 34, 97-109	7.5	49
99	Towards a Knowledge-Based Approach to Semantic Service Composition. <i>Lecture Notes in Computer Science</i> , 2003 , 319-334	0.9	43
98	Semantic Smart Homes: Towards Knowledge Rich Assisted Living Environments. <i>Studies in Computational Intelligence</i> , 2009 , 279-296	0.8	38
97	Feature learning for Human Activity Recognition using Convolutional Neural Networks. <i>CCF Transactions on Pervasive Computing and Interaction</i> , 2020 , 2, 18-32	1.8	37
96	Healthcare in the Smart Home: A Study of Past, Present and Future. <i>Sustainability</i> , 2017 , 9, 840	3.6	37
95	A Generic Framework for Constraint-Driven Data Selection in Mobile Crowd Photographing. <i>IEEE Internet of Things Journal</i> , 2017 , 1-1	10.7	30
94	Smart Home Research. <i>International Journal of Ambient Computing and Intelligence</i> , 2009 , 1, 32-45	2.7	30
93	Activity Recognition: Approaches, Practices and Trends. <i>Atlantis Ambient and Pervasive Intelligence</i> , 2011 , 1-31		29
92	Comparison of fusion methods based on DST and DBN in human activity recognition. <i>Journal of Control Theory and Applications</i> , 2011 , 9, 18-27		28

91	A Hybrid Ontological and Temporal Approach for Composite Activity Modelling 2012 ,		24
90	An Open Internet of Things System Architecture Based on Software-Defined Device. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2583-2592	10.7	24
89	Semantic segmentation of real-time sensor data stream for complex activity recognition. <i>Personal and Ubiquitous Computing</i> , 2017 , 21, 411-425	2.1	23
88	Computational Sleep Behavior Analysis: A Survey. <i>IEEE Access</i> , 2019 , 7, 142421-142440	3.5	22
87	Using Event Calculus for Behaviour Reasoning and Assistance in a Smart Home. <i>Lecture Notes in Computer Science</i> , 2008 , 81-89	0.9	21
86	SEMANTICS-ASSISTED PROBLEM SOLVING ON THE SEMANTIC GRID. <i>Computational Intelligence</i> , 2005 , 21, 157-176	2.5	20
85	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2007 , 19, 283-296	4.2	19
84	A Deep Learning Approach for Privacy Preservation in Assisted Living 2018 ,		19
83	A semantics-based approach to sensor data segmentation in real-time Activity Recognition. <i>Future Generation Computer Systems</i> , 2019 , 93, 224-236	7.5	18
82	Genetic algorithm and pure random search for exosensor distribution optimisation. <i>International Journal of Bio-Inspired Computation</i> , 2012 , 4, 359	2.9	17
81	A user profile ontology based approach for assisting people with dementia in mobile environments. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6390-3	0.9	16
80	Security and privacy issues of physical objects in the IoT: Challenges and opportunities. <i>Digital Communications and Networks</i> , 2021 , 7, 373-384	5.9	15
79	A novel ontology consistent with acknowledged standards in smart homes. <i>Computer Networks</i> , 2019 , 148, 101-107	5.4	14
78	NFC based provisioning of instructional videos to assist with instrumental activities of daily living. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 4131-4	0.9	13
77	Users' Privacy Concerns in IoT Based Applications 2018 ,		13
76	. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 305-309	4.1	12
75	Modeling users, context and devices for ambient assisted living environments. <i>Sensors</i> , 2014 , 14, 5354-913.8		12
74	Does Age Make a Difference in the Behaviour of Online Social Network Users? 2011 ,		12

73	Ontology-Based Learning Framework for Activity Assistance in an Adaptive Smart Home. <i>Atlantis Ambient and Pervasive Intelligence</i> , 2011 , 237-263		12
72	IoT-Enabled Social Relationships Meet Artificial Social Intelligence. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	12
71	Automatic Metadata Generation Through Analysis of Narration Within Instructional Videos. <i>Journal of Medical Systems</i> , 2015 , 39, 94	5.1	11
70	Featuring, Detecting, and Visualizing Human Sentiment in Chinese Micro-Blog. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2016 , 10, 1-23	4	11
69	Semantic data management for situation-aware assistance in ambient assisted living 2009 ,		11
68	Exploring the Relationship Between Online Social Network Site Usage and the Impact on Quality of Life for Older and Younger Users: An Interaction Analysis. <i>Journal of Medical Internet Research</i> , 2016 , 18, e245	7.6	10
67	Towards a service-oriented architecture for a mobile assistive system with real-time environmental sensing. <i>Tsinghua Science and Technology</i> , 2016 , 21, 581-597	3.4	10
66	Sensor-Based Activity Recognition Review 2019 , 23-47		9
65	Combining users' activity survey and simulators to evaluate human activity recognition systems. <i>Sensors</i> , 2015 , 15, 8192-213	3.8	9
64	Formal Modeling Techniques for Ambient Assisted Living. <i>Ageing International</i> , 2011 , 36, 192-216	0.8	9
63	Conceptual Motivation Modeling for Students with Dyslexia for Enhanced Assistive Learning 2017 ,		8
62	High-level geospatial information discovery and fusion for geocoded multimedia. <i>International Journal of Pervasive Computing and Communications</i> , 2013 , 9, 367-382	3.3	8
61	Ontology-Enabled Activity Learning and Model Evolution in Smart Homes. <i>Lecture Notes in Computer Science</i> , 2010 , 67-82	0.9	8
60	SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 5904-5913	10.7	8
59	A Conceptual framework for Adaptive User Interfaces for older adults 2018 ,		8
58	Automatic Summarization of Activities Depicted in Instructional Videos by Use of Speech Analysis. <i>Lecture Notes in Computer Science</i> , 2014 , 123-130	0.9	7
57	Ontology-based Activity Recognition Framework and Services 2013 ,		6
56	CrowdPic: A Multi-coverage Picture Collection Framework for Mobile Crowd Photographing 2015 ,		6

55	Applying AI Planning to Semantic Web Services for Workflow Generation 2005 ,		6
54	A Semantic Web Service Based Approach for Augmented Provenance 2006 ,		6
53	Hybrid Human-Artificial Intelligence. <i>Computer</i> , 2020 , 53, 14-17	1.6	6
52	An Intelligent Recommender System for Web Resource Discovery and Selection. <i>Studies in Computational Intelligence</i> , 2008 , 113-140	0.8	6
51	Comparing CNN and Human Crafted Features for Human Activity Recognition 2019 ,		6
50	Physical unclonable functions based secret keys scheme for securing big data infrastructure communication. <i>Information Sciences</i> , 2019 , 503, 307-318	7.7	5
49	A Knowledge-Driven Approach to Composite Activity Recognition in Smart Environments. <i>Lecture Notes in Computer Science</i> , 2012 , 322-329	0.9	5
48	Ontological Goal Modelling for Proactive Assistive Living in Smart Environments. <i>Lecture Notes in Computer Science</i> , 2013 , 262-269	0.9	5
47	Multi-resident type recognition based on ambient sensors activity. <i>Future Generation Computer Systems</i> , 2020 , 112, 108-115	7.5	4
46	Audio-based event recognition system for smart homes 2017 ,		4
45	Privacy modelling and management for assisted living within smart homes 2017 ,		4
44	Wearable accelerometer based extended sleep position recognition 2017 ,		4
43	A Geospatial Semantic Enrichment and Query Service for Geotagged Photographs. <i>Sensors</i> , 2015 , 15, 17470-82	3.8	4
42	Spatiotemporal Data Acquisition Modalities for Smart Home Inhabitant Movement Behavioural Analysis. <i>Lecture Notes in Computer Science</i> , 2009 , 294-298	0.9	4
41	An approach to provide dynamic, illustrative, video-based guidance within a goal-driven smart home. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 3045-3056	3.7	4
40	Detecting Chronic Diseases from Sleep-Wake Behaviour and Clinical Features 2018 ,		4
39	Towards Knowledge Driven Decision Support for Personalized Home-Based Self-Management of Chronic Diseases 2015 ,		3
38	Sentiment detection and visualization of Chinese micro-blog 2014 ,		3

37	Situation, activity and goal awareness in ubiquitous computing. <i>International Journal of Pervasive Computing and Communications</i> , 2012 , 8, 216-224	3.3	3
36	A systematic approach to adaptive activity modeling and discovery in smart homes 2011 ,		3
35	A Knowledge-Driven Tool for Automatic Activity Dataset Annotation. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 593-604	0.4	3
34	A Mechanism for Nominating Video Clips to Provide Assistance for Instrumental Activities of Daily Living. <i>Lecture Notes in Computer Science</i> , 2015 , 65-76	0.9	3
33	An Examination of the Behaviour of Young and Older Users of Facebook. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 9-16	0.2	3
32	Real-time sensor observation segmentation for complex activity recognition within smart environments 2017 ,		2
31	Reality and perception: Activity monitoring and data collection within a real-world smart home 2017 ,		2
30	Towards a Mobile Assistive System Using Service-Oriented Architecture 2016 ,		2
29	Composite Activity Recognition 2019 , 151-181		2
28	An Assistive Augmented Reality-based Smartglasses Solution for Individuals with Autism Spectrum Disorder 2019 ,		2
27	A Conceptual System Architecture for Motivation-enhanced Learning for Students with Dyslexia 2017 ,		2
26	A System for Real-Time High-Level Geo-Information Extraction and Fusion for Geocoded Photos 2013 ,		2
25	Discovering social behaviour variances of younger and older users through social interaction analysis. <i>International Journal of Web Science</i> , 2013 , 2, 44	0.1	2
24	A Survey of Hybrid Human-Artificial Intelligence for Social Computing. <i>IEEE Transactions on Human-Machine Systems</i> , 2021 , 1-13	4.1	2
23	VIPR: A Visual Interface Tool for Programming Semantic Web Rules 2016 ,		2
22	A hybrid approach to inferring the Internet of Things for complex activity recognition. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2019 , 2019,	3.2	2
21	Fuzzy-Based Fine-Grained Human Activity Recognition within Smart Environments 2019 ,		2
20	Time-Window Based Data Segmentation 2019 , 103-126		1

19	Pure random search for ambient sensor distribution optimisation in a smart home environment. <i>Technology and Health Care</i> , 2011 , 19, 137-60	1.1	1
18	Semantic Tagging for Large-scale Content Management 2007 ,		1
17	Requirements for the Deployment of Sensor Based Recognition Systems for Ambient Assistive Living. <i>Lecture Notes in Computer Science</i> , 2010 , 218-221	0.9	1
16	Discovering the Social Interaction Patterns of Younger and Older Facebook Users. <i>Lecture Notes in Computer Science</i> , 2012 , 295-303	0.9	1
15	Visual Attention-Based Object Detection in Cluttered Environments 2019 ,		1
14	Fine-Grained Sleep-Wake Behaviour Analysis 2019 ,		1
13	Gaze-Based Assessment of Dyslexic Students' Motivation within an E-Learning Environment 2019 ,		1
12	Fine-grained Emotion Role Detection Based on Retweet Information. <i>ACM Transactions on Internet Technology</i> , 2019 , 19, 1-23	3.8	1
11	Exploring Multi-dimension User-Item Interactions with Attentional Knowledge Graph Neural Networks for Recommendation. <i>IEEE Transactions on Big Data</i> , 2022 , 1-1	3.2	1
10	Using model temporal features and hierarchical structure for similar activity recognition. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 1	3.7	0
9	GazeMotive: A Gaze-Based Motivation-Aware E-Learning Tool for Students with Learning Difficulties. <i>Lecture Notes in Computer Science</i> , 2019 , 544-548	0.9	0
8	Privacy-Enabled Smart Home Framework with Voice Assistant. <i>Computer Communications and Networks</i> , 2020 , 321-339	0.5	0
7	Active power dynamic interval control based on operation data mining for wind farms to improve regulation performance in AGC. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 6207-6219	2.5	0
6	Using Fuzzy Evidential Reasoning for Multiple Assessment Fusion in Spondylarthropathic Patient Self-management. <i>Studies in Computational Intelligence</i> , 2016 , 15-39	0.8	
5	Human Centred Cyber Physical Systems 2019 , 217-249		
4	Spatial-frequency data acquisition using rotational invariant pattern matching in smart environments. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2010 , 65, 557-570	2	
3	Semantic-Based Sensor Data Segmentation 2019 , 127-149		
2	Contemporary Gold Rush or Scientific Advancement. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2015 , 210-226	0.4	

- 1 Enhanced multi-source data analysis for personalized sleep-wake pattern recognition and sleep parameter extraction. *Personal and Ubiquitous Computing*, **2020**, 1

2.1