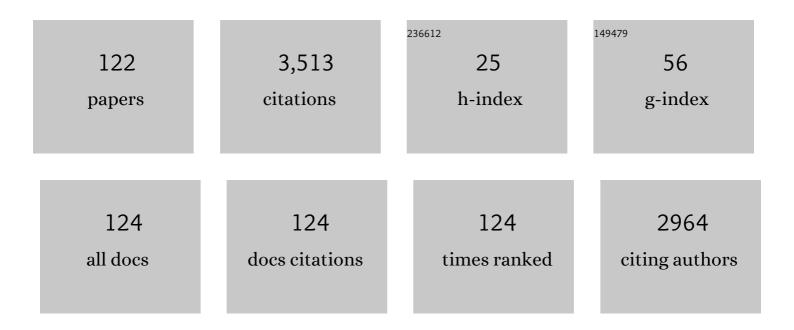
Liming Chen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sensor-Based Activity Recognition. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 790-808.	3.3	782
2	A Knowledge-Driven Approach to Activity Recognition in Smart Homes. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 961-974.	4.0	475
3	Ontologyâ€based activity recognition in intelligent pervasive environments. International Journal of Web Information Systems, 2009, 5, 410-430.	1.3	207
4	Dynamic sensor data segmentation for real-time knowledge-driven activity recognition. Pervasive and Mobile Computing, 2014, 10, 155-172.	2.1	128
5	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
6	An Ontology-Based Hybrid Approach to Activity Modeling for Smart Homes. IEEE Transactions on Human-Machine Systems, 2014, 44, 92-105.	2.5	117
7	Feature learning for Human Activity Recognition using Convolutional Neural Networks. CCF Transactions on Pervasive Computing and Interaction, 2020, 2, 18-32.	1.7	87
8	Towards a Knowledge-Based Approach to Semantic Service Composition. Lecture Notes in Computer Science, 2003, , 319-334.	1.0	67
9	Extending knowledge-driven activity models through data-driven learning techniques. Expert Systems With Applications, 2015, 42, 3115-3128.	4.4	67
10	Healthcare in the Smart Home: A Study of Past, Present and Future. Sustainability, 2017, 9, 840.	1.6	64
11	Combining ontological and temporal formalisms for composite activity modelling and recognition in smart homes. Future Generation Computer Systems, 2014, 39, 29-43.	4.9	60
12	Ontological user modelling and semantic rule-based reasoning for personalisation of Help-On-Demand services in pervasive environments. Future Generation Computer Systems, 2014, 34, 97-109.	4.9	59
13	Semantic Smart Homes: Towards Knowledge Rich Assisted Living Environments. Studies in Computational Intelligence, 2009, , 279-296.	0.7	52
14	An Open Internet of Things System Architecture Based on Software-Defined Device. IEEE Internet of Things Journal, 2019, 6, 2583-2592.	5.5	45
15	Security and privacy issues of physical objects in the IoT: Challenges and opportunities. Digital Communications and Networks, 2021, 7, 373-384.	2.7	45
16	IoT-Enabled Social Relationships Meet Artificial Social Intelligence. IEEE Internet of Things Journal, 2021, 8, 17817-17828.	5.5	41
17	Activity Recognition: Approaches, Practices and Trends. Atlantis Ambient and Pervasive Intelligence, 2011, , 1-31.	0.2	40
18	A semantics-based approach to sensor data segmentation in real-time Activity Recognition. Future Generation Computer Systems, 2019, 93, 224-236.	4.9	40

#	Article	IF	CITATIONS
19	Semantic segmentation of real-time sensor data stream for complex activity recognition. Personal and Ubiquitous Computing, 2017, 21, 411-425.	1.9	38
20	A Generic Framework for Constraint-Driven Data Selection in Mobile Crowd Photographing. IEEE Internet of Things Journal, 2017, , 1-1.	5.5	37
21	Comparison of fusion methods based on DST and DBN in human activity recognition. Journal of Control Theory and Applications, 2011, 9, 18-27.	0.8	36
22	SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. IEEE Internet of Things Journal, 2021, 8, 5904-5913.	5.5	36
23	Smart Home Research. International Journal of Ambient Computing and Intelligence, 2009, 1, 32-45.	0.8	35
24	Computational Sleep Behavior Analysis: A Survey. IEEE Access, 2019, 7, 142421-142440.	2.6	35
25	A Deep Learning Approach for Privacy Preservation in Assisted Living. , 2018, , .		33
26	Users' Privacy Concerns in IoT Based Applications. , 2018, , .		32
27	A Hybrid Ontological and Temporal Approach for Composite Activity Modelling. , 2012, , .		28
28	SEMANTICS-ASSISTED PROBLEM SOLVING ON THE SEMANTIC GRID. Computational Intelligence, 2005, 21, 157-176.	2.1	26
29	A Semantic Web-Based Approach to Knowledge Management for Grid Applications. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 283-296.	4.0	26
30	Using Event Calculus for Behaviour Reasoning and Assistance in a Smart Home. Lecture Notes in Computer Science, 2008, , 81-89.	1.0	26
31	Ontology-Based Learning Framework for Activity Assistance in an Adaptive Smart Home. Atlantis Ambient and Pervasive Intelligence, 2011, , 237-263.	0.2	26
32	A user profile ontology based approach for assisting people with dementia in mobile environments. , 2012, 2012, 6390-3.		24
33	A novel ontology consistent with acknowledged standards in smart homes. Computer Networks, 2019, 148, 101-107.	3.2	24
34	Modeling Users, Context and Devices for Ambient Assisted Living Environments. Sensors, 2014, 14, 5354-5391.	2.1	22
35	Genetic algorithm and pure random search for exosensor distribution optimisation. International Journal of Bio-Inspired Computation, 2012, 4, 359.	0.6	19
36	Privacy-Enabled Smart Home Framework with Voice Assistant. Computer Communications and Networks, 2020, , 321-339.	0.8	17

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37	A Survey of Hybrid Human-Artificial Intelligence for Social Computing. IEEE Transactions on Human-Machine Systems, 2022, 52, 468-480.	2.5	17
38	Semantic data management for situation-aware assistance in ambient assisted living. , 2009, , .		16
39	Does Age Make a Difference in the Behaviour of Online Social Network Users?. , 2011, , .		16
40	Featuring, Detecting, and Visualizing Human Sentiment in Chinese Micro-Blog. ACM Transactions on Knowledge Discovery From Data, 2016, 10, 1-23.	2.5	16
41	Towards a service-oriented architecture for a mobile assistive system with real-time environmental sensing. Tsinghua Science and Technology, 2016, 21, 581-597.	4.1	15
42	A Conceptual framework for Adaptive User Interfaces for older adults. , 2018, , .		15
43	Multi-resident type recognition based on ambient sensors activity. Future Generation Computer Systems, 2020, 112, 108-115.	4.9	15
44	NFC based provisioning of instructional videos to assist with instrumental activities of daily living. , 2014, 2014, 4131-4.		14
45	Guest EditorialSpecial Issue on Situation, Activity, and Goal Awareness in Cyber-Physical Human–Machine Systems. IEEE Transactions on Human-Machine Systems, 2017, 47, 305-309.	2.5	12
46	Sensor-Based Activity Recognition Review. , 2019, , 23-47.		12
47	Exploring the Relationship Between Online Social Network Site Usage and the Impact on Quality of Life for Older and Younger Users: An Interaction Analysis. Journal of Medical Internet Research, 2016, 18, e245.	2.1	12
48	Automatic Metadata Generation Through Analysis of Narration Within Instructional Videos. Journal of Medical Systems, 2015, 39, 94.	2.2	11
49	Combining Users' Activity Survey and Simulators to Evaluate Human Activity Recognition Systems. Sensors, 2015, 15, 8192-8213.	2.1	11
50	Conceptual Motivation Modeling for Students with Dyslexia for Enhanced Assistive Learning. , 2017, , .		11
51	Comparing CNN and Human Crafted Features for Human Activity Recognition. , 2019, , .		11
52	High-level geospatial information discovery and fusion for geocoded multimedia. International Journal of Pervasive Computing and Communications, 2013, 9, 367-382.	1.1	10
53	Wearable accelerometer based extended sleep position recognition. , 2017, , .		10
54	Hybrid Human-Artificial Intelligence. Computer, 2020, 53, 14-17.	1.2	10

#	Article	IF	CITATIONS
55	Exploring Multi-Dimension User-Item Interactions With Attentional Knowledge Graph Neural Networks for Recommendation. IEEE Transactions on Big Data, 2023, 9, 212-226.	4.4	10
56	Formal Modeling Techniques for Ambient Assisted Living. Ageing International, 2011, 36, 192-216.	0.6	9
57	Detecting Chronic Diseases from Sleep-Wake Behaviour and Clinical Features. , 2018, , .		9
58	Ontology-Enabled Activity Learning and Model Evolution in Smart Homes. Lecture Notes in Computer Science, 2010, , 67-82.	1.0	9
59	Applying AI Planning to Semantic Web Services for Workflow Generation. , 2005, , .		8
60	Audio-based event recognition system for smart homes. , 2017, , .		8
61	An Intelligent Recommender System for Web Resource Discovery and Selection. Studies in Computational Intelligence, 2008, , 113-140.	0.7	8
62	A Semantic Web Service Based Approach for Augmented Provenance. , 2006, , .		7
63	CrowdPic: A Multi-coverage Picture Collection Framework for Mobile Crowd Photographing. , 2015, , .		7
64	Privacy modelling and management for assisted living within smart homes. , 2017, , .		7
65	Automatic Summarization of Activities Depicted in Instructional Videos by Use of Speech Analysis. Lecture Notes in Computer Science, 2014, , 123-130.	1.0	7
66	Spatiotemporal Data Acquisition Modalities for Smart Home Inhabitant Movement Behavioural Analysis. Lecture Notes in Computer Science, 2009, , 294-298.	1.0	7
67	A Knowledge-Driven Approach to Composite Activity Recognition in Smart Environments. Lecture Notes in Computer Science, 2012, , 322-329.	1.0	6
68	Ontology-based Activity Recognition Framework and Services. , 2013, , .		6
69	A Geospatial Semantic Enrichment and Query Service for Geotagged Photographs. Sensors, 2015, 15, 17470-17482.	2.1	6
70	Physical unclonable functions based secret keys scheme for securing big data infrastructure communication. Information Sciences, 2019, 503, 307-318.	4.0	6
71	An Assistive Augmented Reality-based Smartglasses Solution for Individuals with Autism Spectrum Disorder. , 2019, , .		5

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73	Ontological Goal Modelling for Proactive Assistive Living in Smart Environments. Lecture Notes in Computer Science, 2013, , 262-269.	1.0	5
74	A systematic approach to adaptive activity modeling and discovery in smart homes. , 2011, , .		4
75	Situation, activity and goal awareness in ubiquitous computing. International Journal of Pervasive Computing and Communications, 2012, 8, 216-224.	1.1	4
76	Sentiment detection and visualization of Chinese micro-blog. , 2014, , .		4
77	Towards a Mobile Assistive System Using Service-Oriented Architecture. , 2016, , .		4
78	Ubiquitous Intelligence and computing for enabling a smarter world. Personal and Ubiquitous Computing, 2017, 21, 407-409.	1.9	4
79	Visual Attention-Based Object Detection in Cluttered Environments. , 2019, , .		4
80	An approach to provide dynamic, illustrative, video-based guidance within a goal-driven smart home. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 3045-3056.	3.3	4
81	Multimodal motivation modelling and computing towards motivationally intelligent E-learning systems. CCF Transactions on Pervasive Computing and Interaction, 2023, 5, 64-81.	1.7	4
82	Spatial-frequency data acquisition using rotational invariant pattern matching in smart environments. Annales Des Telecommunications/Annals of Telecommunications, 2010, 65, 557-570.	1.6	3
83	Pure random search for ambient sensor distribution optimisation in a smart home environment. Technology and Health Care, 2011, 19, 137-160.	0.5	3
84	A System for Real-Time High-Level Geo-Information Extraction and Fusion for Geocoded Photos. , 2013, ,		3
85	Towards Knowledge Driven Decision Support for Personalized Home-Based Self-Management of Chronic Diseases. , 2015, , .		3
86	Real-time sensor observation segmentation for complex activity recognition within smart environments. , 2017, , .		3
87	Reality and perception: Activity monitoring and data collection within a real-world smart home. , 2017, , .		3
88	Composite Activity Recognition. , 2019, , 151-181.		3
89	Gaze-Based Assessment of Dyslexic Students' Motivation within an E-Learning Environment. , 2019, , .		3
90	A Knowledge-Driven Tool for Automatic Activity Dataset Annotation. Advances in Intelligent Systems and Computing, 2015, , 593-604.	0.5	3

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91	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
92	An Examination of the Behaviour of Young and Older Users of Facebook. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 9-16.	0.2	3
93	A Privacy Aware Architecture for IoT Enabled Systems. , 2019, , .		3
94	Semantic Tagging for Large-scale Content Management. , 2007, , .		2
95	Stopping Criterion Impact on Pure Random Search Optimisation for Intelligent Device Distribution. , 2010, , .		2
96	Discovering social behaviour variances of younger and older users through social interaction analysis. International Journal of Web Science, 2013, 2, 44.	0.8	2
97	Fall Detection Using Plantar Inclinometer Sensor. , 2015, , .		2
98	VIPR: A Visual Interface Tool for Programming Semantic Web Rules. , 2016, , .		2
99	A Conceptual System Architecture for Motivation-enhanced Learning for Students with Dyslexia. , 2017, , .		2
100	A hybrid approach to inferring the Internet of Things for complex activity recognition. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	2
101	Fine-grained Emotion Role Detection Based on Retweet Information. ACM Transactions on Internet Technology, 2019, 19, 1-23.	3.0	2
102	Requirements for the Deployment of Sensor Based Recognition Systems for Ambient Assistive Living. Lecture Notes in Computer Science, 2010, , 218-221.	1.0	2
103	GazeMotive: A Gaze-Based Motivation-Aware E-Learning Tool for Students with Learning Difficulties. Lecture Notes in Computer Science, 2019, , 544-548.	1.0	2
104	Active power dynamic interval control based on operation data mining for wind farms to improve regulation performance in AGC. IET Generation, Transmission and Distribution, 2020, 14, 6207-6219.	1.4	2
105	Semantic-Enabled and Agent-based Environment Aware Agile Service Utilities. , 2008, , .		1
106	Time handling for real-time progressive activity recognition. , 2011, , .		1
107	Context, intelligence and interactions for personalized systems. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1557-1559.	3.3	1
108	Time-Window Based Data Segmentation. , 2019, , 103-126.		1

Time-Window Based Data Segmentation. , 2019, , 103-126. 108

#	Article	IF	CITATIONS
109	Fine-Grained Sleep-Wake Behaviour Analysis. , 2019, , .		1
110	Enhanced multi-source data analysis for personalized sleep-wake pattern recognition and sleep parameter extraction. Personal and Ubiquitous Computing, 0, , 1.	1.9	1
111	Using model's temporal features and hierarchical structure for similar activity recognition. Journal of Ambient Intelligence and Humanized Computing, 2020, , 1.	3.3	1
112	Discovering the Social Interaction Patterns of Younger and Older Facebook Users. Lecture Notes in Computer Science, 2012, , 295-303.	1.0	1
113	Reducing Communication Costs of Federated Contrastive Learning by Particle Swarm Optimization. , 2021, , .		1
114	Using Personalized Knowledge Portal for Information and Knowledge Integration and Sharing. , 2007, , .		0
115	A Bioinspired Feature-Projection-Based Approach to Electromyographic Pattern Recognition Based for High Dimensional Sparse Sensor Data. , 2015, , .		Ο
116	Evaluation Of MediaPlace. , 2015, , .		0
117	Using Fuzzy Evidential Reasoning for Multiple Assessment Fusion in Spondylarthropathic Patient Self-management. Studies in Computational Intelligence, 2016, , 15-39.	0.7	0
118	Human Centred Cyber Physical Systems. , 2019, , 217-249.		0
119	A Home-Based IoT-Enabled Framework for Sleep Behaviour Assessment. , 2019, , .		0
120	Recognition of Similar Activities Based on Activity Relationship. , 2019, , .		0
121	Contemporary Gold Rush or Scientific Advancement. Advances in Computational Intelligence and Robotics Book Series, 2015, , 210-226.	0.4	0
122	Semantic-Based Sensor Data Segmentation. , 2019, , 127-149.		0