

# Liming Chen

## List of Publications by Year in descending order

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171  
papers

4,544  
citations

136885

32  
h-index

123376

61  
g-index

179  
all docs

179  
docs citations

179  
times ranked

3971  
citing authors

#	ARTICLE	IF	CITATIONS
1	MES-P: An Emotional Tonal Speech Dataset in Mandarin with Distal and Proximal Labels. IEEE Transactions on Affective Computing, 2022, 13, 408-425.	5.7	7
2	The Devil is in the Details: An Efficient Convolutional Neural Network for Transport Mode Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12202-12212.	4.7	6
3	LightLog: A lightweight temporal convolutional network for log anomaly detection on the edge. Computer Networks, 2022, 203, 108616.	3.2	32
4	A Survey of Hybrid Human-Artificial Intelligence for Social Computing. IEEE Transactions on Human-Machine Systems, 2022, 52, 468-480.	2.5	17
5	Security and privacy issues of physical objects in the IoT: Challenges and opportunities. Digital Communications and Networks, 2021, 7, 373-384.	2.7	45
6	SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. IEEE Internet of Things Journal, 2021, 8, 5904-5913.	5.5	36
7	IoT-Enabled Social Relationships Meet Artificial Social Intelligence. IEEE Internet of Things Journal, 2021, 8, 17817-17828.	5.5	41
8	Human-Machine Cooperative Video Anomaly Detection. Proceedings of the ACM on Human-Computer Interaction, 2021, 4, 1-18.	2.5	12
9	Gesture-Radar: A Dual Doppler Radar Based System for Robust Recognition and Quantitative Profiling of Human Gestures. IEEE Transactions on Human-Machine Systems, 2021, 51, 32-43.	2.5	29
10	Combining LIDAR and LADRC for intelligent pitch control of wind turbines. Renewable Energy, 2021, 169, 1091-1105.	4.3	24
11	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
12	Privacy Risk Awareness in Wearables and the Internet of Things. IEEE Pervasive Computing, 2020, 19, 60-66.	1.1	34
13	Distributed, Secure, Self-Sovereign Identity for IoT Devices. , 2020, , .		11
14	Discriminative and Geometry-Aware Unsupervised Domain Adaptation. IEEE Transactions on Cybernetics, 2020, 50, 3914-3927.	6.2	40
15	Using model's temporal features and hierarchical structure for similar activity recognition. Journal of Ambient Intelligence and Humanized Computing, 2020, , 1.	3.3	1
16	Multi-resident type recognition based on ambient sensors activity. Future Generation Computer Systems, 2020, 112, 108-115.	4.9	15
17	Feature learning for Human Activity Recognition using Convolutional Neural Networks. CCF Transactions on Pervasive Computing and Interaction, 2020, 2, 18-32.	1.7	87
18	Audio content analysis for unobtrusive event detection in smart homes. Engineering Applications of Artificial Intelligence, 2020, 89, 103226.	4.3	28

#	ARTICLE	IF	CITATIONS
19	The Power of Augmented Reality and Artificial Intelligence During the Covid-19 Outbreak. Lecture Notes in Computer Science, 2020, , 467-476.	1.0	14
20	Hybrid Human-Artificial Intelligence. Computer, 2020, 53, 14-17.	1.2	10
21	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
22	Modeling Dyslexic Students's Motivation for Enhanced Learning in E-learning Systems. ACM Transactions on Interactive Intelligent Systems, 2020, 10, 1-34.	2.6	6
23	Time-Window Based Data Segmentation. , 2019, , 103-126.		1
24	Physical unclonable functions based secret keys scheme for securing big data infrastructure communication. Information Sciences, 2019, 503, 307-318.	4.0	6
25	Composite Activity Recognition. , 2019, , 151-181.		3
26	Human Centred Cyber Physical Systems. , 2019, , 217-249.		0
27	An Assistive Augmented Reality-based Smartglasses Solution for Individuals with Autism Spectrum Disorder. , 2019, , .		5
28	A Home-Based IoT-Enabled Framework for Sleep Behaviour Assessment. , 2019, , .		0
29	Sensor-Based Activity Recognition Review. , 2019, , 23-47.		12
30	An Ontology-Based Approach to Activity Recognition. , 2019, , 49-75.		1
31	A Hybrid Approach to Activity Modelling. , 2019, , 77-101.		0
32	Human Activity Recognition and Behaviour Analysis. , 2019, , .		21
33	Semantic Smart Homes: Towards a Knowledge-Rich Smart Environment. , 2019, , 183-199.		1
34	Visual Attention-Based Object Detection in Cluttered Environments. , 2019, , .		4
35	Recognition of Similar Activities Based on Activity Relationship. , 2019, , .		0
36	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

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37	Image-Based Text Classification using 2D Convolutional Neural Networks. , 2019, , .		6
38	Fine-Grained Sleep-Wake Behaviour Analysis. , 2019, , .		1
39	Gaze-Based Assessment of Dyslexic Students' Motivation within an E-Learning Environment. , 2019, , .		3
40	Fuzzy-Based Fine-Grained Human Activity Recognition within Smart Environments. , 2019, , .		5
41	Comparing CNN and Human Crafted Features for Human Activity Recognition. , 2019, , .		11
42	ICA-Based EEG Feature Analysis and Classification of Learning Styles. , 2019, , .		2
43	Computational Sleep Behavior Analysis: A Survey. IEEE Access, 2019, 7, 142421-142440.	2.6	35
44	A location-constrained crowdsensing task allocation method for improving user satisfaction. International Journal of Distributed Sensor Networks, 2019, 15, 155014771988398.	1.3	3
45	A novel ontology consistent with acknowledged standards in smart homes. Computer Networks, 2019, 148, 101-107.	3.2	24
46	Fine-grained Emotion Role Detection Based on Retweet Information. ACM Transactions on Internet Technology, 2019, 19, 1-23.	3.0	2
47	A semantics-based approach to sensor data segmentation in real-time Activity Recognition. Future Generation Computer Systems, 2019, 93, 224-236.	4.9	40
48	An Open Internet of Things System Architecture Based on Software-Defined Device. IEEE Internet of Things Journal, 2019, 6, 2583-2592.	5.5	45
49	Improving Shadow Suppression for Illumination Robust Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 611-624.	9.7	87
50	Indoor Activity Recognition by Using Recurrent Neural Networks. Communications in Computer and Information Science, 2019, , 205-215.	0.4	4
51	Semantic-Based Sensor Data Segmentation. , 2019, , 127-149.		0
52	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
53	A Privacy Aware Architecture for IoT Enabled Systems. , 2019, , .		3
54	Visual and Semantic Knowledge Transfer for Large Scale Semi-Supervised Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 3045-3058.	9.7	46

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55	Affective Video Content Analysis: A Multidisciplinary Insight. IEEE Transactions on Affective Computing, 2018, 9, 396-409.	5.7	55
56	An Experimental Study of Learning Behaviour in an ELearning Environment. , 2018, , .		3
57	A Conceptual framework for Adaptive User Interfaces for older adults. , 2018, , .		15
58	A Deep Learning Approach for Privacy Preservation in Assisted Living. , 2018, , .		33
59	Energy-based decision engine for household human activity recognition. , 2018, , .		3
60	Detecting Chronic Diseases from Sleep-Wake Behaviour and Clinical Features. , 2018, , .		9
61	Mining Learning Styles for Personalised eLearning. , 2018, , .		2
62	Users' Privacy Concerns in IoT Based Applications. , 2018, , .		32
63	Context, intelligence and interactions for personalized systems. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1557-1559.	3.3	1
64	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
65	A Generic Framework for Constraint-Driven Data Selection in Mobile Crowd Photographing. IEEE Internet of Things Journal, 2017, , 1-1.	5.5	37
66	Semantic segmentation of real-time sensor data stream for complex activity recognition. Personal and Ubiquitous Computing, 2017, 21, 411-425.	1.9	38
67	Conceptual Motivation Modeling for Students with Dyslexia for Enhanced Assistive Learning. , 2017, , .		11
68	Ubiquitous Intelligence and computing for enabling a smarter world. Personal and Ubiquitous Computing, 2017, 21, 407-409.	1.9	4
69	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
70	Discriminative Transfer Learning Using Similarities and Dissimilarities. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-14.	7.2	7
71	Weakly Supervised Learning of Deformable Part-Based Models for Object Detection via Region Proposals. IEEE Transactions on Multimedia, 2017, 19, 393-407.	5.2	37
72	A Conceptual System Architecture for Motivation-enhanced Learning for Students with Dyslexia. , 2017, , .		2

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73	Privacy modelling and management for assisted living within smart homes. , 2017, , .		7
74	Wearable accelerometer based extended sleep position recognition. , 2017, , .		10
75	Healthcare in the Smart Home: A Study of Past, Present and Future. Sustainability, 2017, 9, 840.	1.6	64
76	Audio-based event recognition system for smart homes. , 2017, , .		8
77	Real-time sensor observation segmentation for complex activity recognition within smart environments. , 2017, , .		3
78	Reality and perception: Activity monitoring and data collection within a real-world smart home. , 2017, , .		3
79	VIPR: A Visual Interface Tool for Programming Semantic Web Rules. , 2016, , .		2
80	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
81	Large Scale Semi-Supervised Object Detection Using Visual and Semantic Knowledge Transfer. , 2016, , .		89
82	MobiGroup: Enabling Lifecycle Support to Social Activity Organization and Suggestion With Mobile Crowd Sensing. IEEE Transactions on Human-Machine Systems, 2016, 46, 390-402.	2.5	40
83	Featuring, Detecting, and Visualizing Human Sentiment in Chinese Micro-Blog. ACM Transactions on Knowledge Discovery From Data, 2016, 10, 1-23.	2.5	16
84	Using Fuzzy Evidential Reasoning for Multiple Assessment Fusion in Spondylarthropathic Patient Self-management. Studies in Computational Intelligence, 2016, , 15-39.	0.7	0
85	Towards a Mobile Assistive System Using Service-Oriented Architecture. , 2016, , .		4
86	A Plantar Inclinometer Based Approach to Fall Detection in Open Environments. Studies in Computational Intelligence, 2016, , 1-13.	0.7	7
87	Internet of Things, Linked Data, and Citizen Participation as Enablers of Smarter Cities. International Journal of Distributed Sensor Networks, 2016, 12, 2595847.	1.3	2
88	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
89	Towards Knowledge Driven Decision Support for Personalized Home-Based Self-Management of Chronic Diseases. , 2015, , .		3
90	Fall Detection Using Plantar Inclinometer Sensor. , 2015, , .		2

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91	CrowdPic: A Multi-coverage Picture Collection Framework for Mobile Crowd Photographing. , 2015, , .		7
92	A Bioinspired Feature-Projection-Based Approach to Electromyographic Pattern Recognition Based for High Dimensional Sparse Sensor Data. , 2015, , .		0
93	Evaluation Of MediaPlace. , 2015, , .		0
94	A Geospatial Semantic Enrichment and Query Service for Geotagged Photographs. Sensors, 2015, 15, 17470-17482.	2.1	6
95	Extending knowledge-driven activity models through data-driven learning techniques. Expert Systems With Applications, 2015, 42, 3115-3128.	4.4	67
96	LIRIS-ACCEDE: A Video Database for Affective Content Analysis. IEEE Transactions on Affective Computing, 2015, 6, 43-55.	5.7	206
97	Automatic Metadata Generation Through Analysis of Narration Within Instructional Videos. Journal of Medical Systems, 2015, 39, 94.	2.2	11
98	Combining Usersâ€™ Activity Survey and Simulators to Evaluate Human Activity Recognition Systems. Sensors, 2015, 15, 8192-8213.	2.1	11
99	Automatic 3D facial expression recognition using geometric scattering representation. , 2015, , .		15
100	A Knowledge-Driven Tool for Automatic Activity Dataset Annotation. Advances in Intelligent Systems and Computing, 2015, , 593-604.	0.5	3
101	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
102	Contemporary Gold Rush or Scientific Advancement. Advances in Computational Intelligence and Robotics Book Series, 2015, , 210-226.	0.4	0
103	NFC based provisioning of instructional videos to assist with instrumental activities of daily living. , 2014, 2014, 4131-4.		14
104	Modeling Users, Context and Devices for Ambient Assisted Living Environments. Sensors, 2014, 14, 5354-5391.	2.1	22
105	Fusing generic objectness and deformable part-based models for weakly supervised object detection. , 2014, , .		6
106	Sentiment detection and visualization of Chinese micro-blog. , 2014, , .		4
107	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
108	An Ontology-Based Hybrid Approach to Activity Modeling for Smart Homes. IEEE Transactions on Human-Machine Systems, 2014, 44, 92-105.	2.5	117

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109	Combining ontological and temporal formalisms for composite activity modelling and recognition in smart homes. <i>Future Generation Computer Systems</i> , 2014, 39, 29-43.	4.9	60
110	Dynamic sensor data segmentation for real-time knowledge-driven activity recognition. <i>Pervasive and Mobile Computing</i> , 2014, 10, 155-172.	2.1	128
111	Managing Eldersâ€™ Wandering Behavior Using Sensors-based Solutions: A Survey. <i>International Journal of Gerontology</i> , 2014, 8, 49-55.	0.7	56
112	Automatic Summarization of Activities Depicted in Instructional Videos by Use of Speech Analysis. <i>Lecture Notes in Computer Science</i> , 2014, , 123-130.	1.0	7
113	Learning Behaviour for Service Personalisation and Adaptation. <i>Communications in Computer and Information Science</i> , 2014, , 287-297.	0.4	2
114	Using SWRL and ontological reasoning for the personalization of context-aware assistive services. , 2013, , .		2
115	Ontology-based Activity Recognition Framework and Services. , 2013, , .		6
116	A System for Real-Time High-Level Geo-Information Extraction and Fusion for Geocoded Photos. , 2013, , .		3
117	Mining usage data for adaptive personalisation of smartphone based help-on-demand services. , 2013, , .		5
118	High-level geospatial information discovery and fusion for geocoded multimedia. <i>International Journal of Pervasive Computing and Communications</i> , 2013, 9, 367-382.	1.1	10
119	Ontological Goal Modelling for Proactive Assistive Living in Smart Environments. <i>Lecture Notes in Computer Science</i> , 2013, , 262-269.	1.0	5
120	A Generic Upper-Level Ontological Model for Context-Aware Applications within Smart Environments. <i>Lecture Notes in Computer Science</i> , 2013, , 270-277.	1.0	2
121	International Workshop on Situation, Activity and Goal Awareness (SAGAware 2012). , 2012, , .		1
122	A Hybrid Ontological and Temporal Approach for Composite Activity Modelling. , 2012, , .		28
123	Genetic algorithm and pure random search for exosensor distribution optimisation. <i>International Journal of Bio-Inspired Computation</i> , 2012, 4, 359.	0.6	19
124	Situation, activity and goal awareness in ubiquitous computing. <i>International Journal of Pervasive Computing and Communications</i> , 2012, 8, 216-224.	1.1	4
125	A Knowledge-Driven Approach to Composite Activity Recognition in Smart Environments. <i>Lecture Notes in Computer Science</i> , 2012, , 322-329.	1.0	6
126	Music sparse decomposition onto a MIDI dictionary of musical words and its application to music mood classification. , 2012, , .		4



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127	WiiPDâ€”Objective Home Assessment of Parkinson's Disease Using the Nintendo Wii Remote. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1304-1312.	3.6	30
128	Sensor-Based Activity Recognition. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 790-808.	3.3	782
129	A user profile ontology based approach for assisting people with dementia in mobile environments. , 2012, 2012, 6390-3.		24
130	A Knowledge-Driven Approach to Activity Recognition in Smart Homes. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 961-974.	4.0	475
131	IE Sim â€” A Flexible Tool for the Simulation of Data Generated within Intelligent Environments. Lecture Notes in Computer Science, 2012, , 373-378.	1.0	5
132	A Conceptual Framework for Supporting Adaptive Personalized Help-on-Demand Services. Lecture Notes in Computer Science, 2012, , 427-432.	1.0	4
133	Ontological User Profile Modeling for Context-Aware Application Personalization. Lecture Notes in Computer Science, 2012, , 261-268.	1.0	43
134	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
135	Does Age Make a Difference in the Behaviour of Online Social Network Users?. , 2011, , .		16
136	A systematic approach to adaptive activity modeling and discovery in smart homes. , 2011, , .		4
137	Pure random search for ambient sensor distribution optimisation in a smart home environment. Technology and Health Care, 2011, 19, 137-160.	0.5	3
138	Formal Modeling Techniques for Ambient Assisted Living. Ageing International, 2011, 36, 192-216.	0.6	9
139	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
140	Workshop overview for the international workshop on situation, activity and goal awareness. , 2011, , .		0
141	Time handling for real-time progressive activity recognition. , 2011, , .		1
142	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
143	Stopping Criterion Impact on Pure Random Search Optimisation for Intelligent Device Distribution. , 2010, , .		2
144	Ontology-Enabled Activity Learning and Model Evolution in Smart Homes. Lecture Notes in Computer Science, 2010, , 67-82.	1.0	9

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145	Requirements for the Deployment of Sensor Based Recognition Systems for Ambient Assistive Living. Lecture Notes in Computer Science, 2010, , 218-221.	1.0	2
146	Facilitating Experience Reuse: Towards a Task-Based Approach. Lecture Notes in Computer Science, 2010, , 494-505.	1.0	0
147	Engineering Knowledge for Assistive Living. Lecture Notes in Computer Science, 2010, , 609-614.	1.0	0
148	Smart Home Research. International Journal of Ambient Computing and Intelligence, 2009, 1, 32-45.	0.8	35
149	Semantic Smart Homes: Towards Knowledge Rich Assisted Living Environments. Studies in Computational Intelligence, 2009, , 279-296.	0.7	52
150	Semantic data management for situation-aware assistance in ambient assisted living. , 2009, , .		16
151	Development of a smart home simulator for use as a heuristic tool for management of sensor distribution. Technology and Health Care, 2009, 17, 171-182.	0.5	13
152	Ontology-based activity recognition in intelligent pervasive environments. International Journal of Web Information Systems, 2009, 5, 410-430.	1.3	207
153	Spatiotemporal Data Acquisition Modalities for Smart Home Inhabitant Movement Behavioural Analysis. Lecture Notes in Computer Science, 2009, , 294-298.	1.0	7
154	Utilising Task-Patterns in Organisational Process Knowledge Sharing. Lecture Notes in Computer Science, 2009, , 216-230.	1.0	6
155	Real-time license plate localization based on a new scale and rotation invariant texture descriptor. , 2008, , .		9
156	Semantic-Enabled and Agent-based Environment Aware Agile Service Utilities. , 2008, , .		1
157	Using Event Calculus for Behaviour Reasoning and Assistance in a Smart Home. Lecture Notes in Computer Science, 2008, , 81-89.	1.0	26
158	An Intelligent Recommender System for Web Resource Discovery and Selection. Studies in Computational Intelligence, 2008, , 113-140.	0.7	8
159	Automatic Hierarchical Classification of Emotional Speech. , 2007, , .		29
160	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
161	Semantic Tagging for Large-scale Content Management. , 2007, , .		2
162	Using Personalized Knowledge Portal for Information and Knowledge Integration and Sharing. , 2007, , .		0

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163	Automatic Hierarchical Classification of Emotional Speech. , 2007, , .		1
164	A Semantic Web Service Based Approach for Augmented Provenance. , 2006, , .		7
165	Using Ambient Intelligence for Disaster Management. Lecture Notes in Computer Science, 2006, , 171-178.	1.0	2
166	SEMANTICS-ASSISTED PROBLEM SOLVING ON THE SEMANTIC GRID. Computational Intelligence, 2005, 21, 157-176.	2.1	26
167	Applying AI Planning to Semantic Web Services for Workflow Generation. , 2005, , .		8
168	Semantic Web Based Content Enrichment and Knowledge Reuse in E-science. Lecture Notes in Computer Science, 2004, , 654-669.	1.0	7
169	Towards a Knowledge-Based Approach to Semantic Service Composition. Lecture Notes in Computer Science, 2003, , 319-334.	1.0	67
170	Enhanced multi-source data analysis for personalized sleep-wake pattern recognition and sleep parameter extraction. Personal and Ubiquitous Computing, 0, , 1.	1.9	1
171	Two-Dimensional Convolutional Recurrent Neural Networks for Speech Activity Detection. , 0, , .		13