Liming Chen

List of Publications by Year in Descending Order

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	Exploring Multi-dimension User-Item Interactions with Attentional Knowledge Graph Neural Networks for Recommendation. *IEEE Transactions on Big Data*, **2022**, 1-1	3.2	1
107	A Survey of Hybrid Human-Artificial Intelligence for Social Computing. *IEEE Transactions on Human-Machine Systems*, **2021**, 1-13	4.1	2
106	Security and privacy issues of physical objects in the IoT: Challenges and opportunities. *Digital Communications and Networks*, **2021**, 7, 373-384	5.9	15
105	SRAM-PUF-Based Entities Authentication Scheme for Resource-Constrained IoT Devices. *IEEE Internet of Things Journal*, **2021**, 8, 5904-5913	10.7	8
104	IoT-Enabled Social Relationships Meet Artificial Social Intelligence. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	12
103	Using models temporal features and hierarchical structure for similar activity recognition. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 1	3.7	0
102	Multi-resident type recognition based on ambient sensors activity. *Future Generation Computer Systems*, **2020**, 112, 108-115	7.5	4
101	Feature learning for Human Activity Recognition using Convolutional Neural Networks. *CCF Transactions on Pervasive Computing and Interaction*, **2020**, 2, 18-32	1.8	37
100	Hybrid Human-Artificial Intelligence. *Computer*, **2020**, 53, 14-17	1.6	6
99	Privacy-Enabled Smart Home Framework with Voice Assistant. *Computer Communications and Networks*, **2020**, 321-339	0.5	0
98	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	2.5	0
97	Enhanced multi-source data analysis for personalized sleep-wake pattern recognition and sleep parameter extraction. *Personal and Ubiquitous Computing*, **2020**, 1	2.1	
96	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	3.7	4
95	Sensor-Based Activity Recognition Review **2019**, 23-47		9
94	Time-Window Based Data Segmentation **2019**, 103-126		1
93	Physical unclonable functions based secret keys scheme for securing big data infrastructure communication. *Information Sciences*, **2019**, 503, 307-318	7.7	5
92	Composite Activity Recognition **2019**, 151-181		2

91	Human Centred Cyber Physical Systems **2019**, 217-249		
90	An Assistive Augmented Reality-based Smartglasses Solution for Individuals with Autism Spectrum Disorder **2019**,		2
89	Semantic-Based Sensor Data Segmentation **2019**, 127-149		
88	GazeMotive: A Gaze-Based Motivation-Aware E-Learning Tool for Students with Learning Difficulties. *Lecture Notes in Computer Science*, **2019**, 544-548	0.9	0
87	Visual Attention-Based Object Detection in Cluttered Environments **2019**,		1
86	A hybrid approach to inferring the Internet of Things for complex activity recognition. *Eurasip Journal on Wireless Communications and Networking*, **2019**, 2019,	3.2	2
85	Fine-Grained Sleep-Wake Behaviour Analysis **2019**,		1
84	Gaze-Based Assessment of Dyslexic Students' Motivation within an E-Learning Environment **2019**,		1
83	Fuzzy-Based Fine-Grained Human Activity Recognition within Smart Environments **2019**,		2
82	Comparing CNN and Human Crafted Features for Human Activity Recognition **2019**,		6
81	Computational Sleep Behavior Analysis: A Survey. *IEEE Access*, **2019**, 7, 142421-142440	3.5	22
80	A novel ontology consistent with acknowledged standards in smart homes. *Computer Networks*, **2019**, 148, 101-107	5.4	14
79	Fine-grained Emotion Role Detection Based on Retweet Information. *ACM Transactions on Internet Technology*, **2019**, 19, 1-23	3.8	1
78	A semantics-based approach to sensor data segmentation in real-time Activity Recognition. *Future Generation Computer Systems*, **2019**, 93, 224-236	7.5	18
77	An Open Internet of Things System Architecture Based on Software-Defined Device. *IEEE Internet of Things Journal*, **2019**, 6, 2583-2592	10.7	24
76	A Conceptual framework for Adaptive User Interfaces for older adults **2018**,		8
75	A Deep Learning Approach for Privacy Preservation in Assisted Living **2018**,		19
74	Detecting Chronic Diseases from Sleep-Wake Behaviour and Clinical Features **2018**,		4

73	Users' Privacy Concerns in IoT Based Applications **2018**,		13
72	. *IEEE Transactions on Human-Machine Systems*, **2017**, 47, 368-379	4.1	97
71	A Generic Framework for Constraint-Driven Data Selection in Mobile Crowd Photographing. *IEEE Internet of Things Journal*, **2017**, 1-1	10.7	30
70	Semantic segmentation of real-time sensor data stream for complex activity recognition. *Personal and Ubiquitous Computing*, **2017**, 21, 411-425	2.1	23
69	Conceptual Motivation Modeling for Students with Dyslexia for Enhanced Assistive Learning **2017**,		8
68	Audio-based event recognition system for smart homes **2017**,		4
67	Real-time sensor observation segmentation for complex activity recognition within smart environments **2017**,		2
66	Reality and perception: Activity monitoring and data collection within a real-world smart home **2017**,		2
65	. *IEEE Transactions on Human-Machine Systems*, **2017**, 47, 305-309	4.1	12
64	A Conceptual System Architecture for Motivation-enhanced Learning for Students with Dyslexia **2017**,		2
63	Privacy modelling and management for assisted living within smart homes **2017**,		4
62	Wearable accelerometer based extended sleep position recognition **2017**,		4
61	Healthcare in the Smart Home: A Study of Past, Present and Future. *Sustainability*, **2017**, 9, 840	3.6	37
60	Featuring, Detecting, and Visualizing Human Sentiment in Chinese Micro-Blog. *ACM Transactions on Knowledge Discovery From Data*, **2016**, 10, 1-23	4	11
59	Using Fuzzy Evidential Reasoning for Multiple Assessment Fusion in Spondylarthropathic Patient Self-management. *Studies in Computational Intelligence*, **2016**, 15-39	0.8	
58	Towards a Mobile Assistive System Using Service-Oriented Architecture **2016**,		2
57	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	7.6	10
56	VIPR: A Visual Interface Tool for Programming Semantic Web Rules **2016**,		2

55	Towards a service-oriented architecture for a mobile assistive system with real-time environmental sensing. *Tsinghua Science and Technology*, **2016**, 21, 581-597	3.4	10
54	Automatic Metadata Generation Through Analysis of Narration Within Instructional Videos. *Journal of Medical Systems*, **2015**, 39, 94	5.1	11
53	Combining users' activity survey and simulators to evaluate human activity recognition systems. *Sensors*, **2015**, 15, 8192-213	3.8	9
52	Towards Knowledge Driven Decision Support for Personalized Home-Based Self-Management of Chronic Diseases **2015**,		3
51	CrowdPic: A Multi-coverage Picture Collection Framework for Mobile Crowd Photographing **2015**,		6
50	A Geospatial Semantic Enrichment and Query Service for Geotagged Photographs. *Sensors*, **2015**, 15, 17470-82	3.8	4
49	Extending knowledge-driven activity models through data-driven learning techniques. *Expert Systems With Applications*, **2015**, 42, 3115-3128	7.8	58
48	A Knowledge-Driven Tool for Automatic Activity Dataset Annotation. *Advances in Intelligent Systems and Computing*, **2015**, 593-604	0.4	3
47	A Mechanism for Nominating Video Clips to Provide Assistance for Instrumental Activities of Daily Living. *Lecture Notes in Computer Science*, **2015**, 65-76	0.9	3
46	Contemporary Gold Rush or Scientific Advancement. *Advances in Computational Intelligence and Robotics Book Series*, **2015**, 210-226	0.4	
45	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	7.5	49
44	An Ontology-Based Hybrid Approach to Activity Modeling for Smart Homes. *IEEE Transactions on Human-Machine Systems*, **2014**, 44, 92-105	4.1	89
43	Combining ontological and temporal formalisms for composite activity modelling and recognition in smart homes. *Future Generation Computer Systems*, **2014**, 39, 29-43	7.5	51
42	Dynamic sensor data segmentation for real-time knowledge-driven activity recognition. *Pervasive and Mobile Computing*, **2014**, 10, 155-172	3.5	105
41	NFC based provisioning of instructional videos to assist with instrumental activities of daily living. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4131-4	0.9	13
40	Modeling users, context and devices for ambient assisted living environments. *Sensors*, **2014**, 14, 5354-91	3.8	12
39	Sentiment detection and visualization of Chinese micro-blog **2014**,		3
38	Automatic Summarization of Activities Depicted in Instructional Videos by Use of Speech Analysis. *Lecture Notes in Computer Science*, **2014**, 123-130	0.9	7

37	Ontology-based Activity Recognition Framework and Services **2013**,	6
36	A System for Real-Time High-Level Geo-Information Extraction and Fusion for Geocoded Photos **2013**,	2
35	Discovering social behaviour variances of younger and older users through social interaction analysis. *International Journal of Web Science*, **2013**, 2, 44	0.1 2
34	High-level geospatial information discovery and fusion for geocoded multimedia. *International Journal of Pervasive Computing and Communications*, **2013**, 9, 367-382	3.3 8
33	Ontological Goal Modelling for Proactive Assistive Living in Smart Environments. *Lecture Notes in Computer Science*, **2013**, 262-269	0.9 5
32	A Knowledge-Driven Approach to Activity Recognition in Smart Homes. *IEEE Transactions on Knowledge and Data Engineering*, **2012**, 24, 961-974	4.2 360
31	Situation, activity and goal awareness in ubiquitous computing. *International Journal of Pervasive Computing and Communications*, **2012**, 8, 216-224	3.3 3
30	A Knowledge-Driven Approach to Composite Activity Recognition in Smart Environments. *Lecture Notes in Computer Science*, **2012**, 322-329	0.9 5
29	Sensor-Based Activity Recognition. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2012**, 42, 790-808	569
28	A user profile ontology based approach for assisting people with dementia in mobile environments. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 6390-3	0.9 16
27	A Hybrid Ontological and Temporal Approach for Composite Activity Modelling **2012**,	24
26	Genetic algorithm and pure random search for exosensor distribution optimisation. *International Journal of Bio-Inspired Computation*, **2012**, 4, 359	2.9 17
25	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
24	Discovering the Social Interaction Patterns of Younger and Older Facebook Users. *Lecture Notes in Computer Science*, **2012**, 295-303	0.9 1
23	Activity Recognition: Approaches, Practices and Trends. *Atlantis Ambient and Pervasive Intelligence*, **2011**, 1-31	29
22	Pure random search for ambient sensor distribution optimisation in a smart home environment. *Technology and Health Care*, **2011**, 19, 137-60	1.1 1
21	Formal Modeling Techniques for Ambient Assisted Living. *Ageing International*, **2011**, 36, 192-216	0.8 9
20	Comparison of fusion methods based on DST and DBN in human activity recognition. *Journal of Control Theory and Applications*, **2011**, 9, 18-27	28

19	Does Age Make a Difference in the Behaviour of Online Social Network Users? **2011**,		12
18	A systematic approach to adaptive activity modeling and discovery in smart homes **2011**,		3
17	Ontology-Based Learning Framework for Activity Assistance in an Adaptive Smart Home. *Atlantis Ambient and Pervasive Intelligence*, **2011**, 237-263		12
16	Spatial-frequency data acquisition using rotational invariant pattern matching in smart environments. *Annales Des Telecommunications/Annals of Telecommunications*, **2010**, 65, 557-570	2	
15	Ontology-Enabled Activity Learning and Model Evolution in Smart Homes. *Lecture Notes in Computer Science*, **2010**, 67-82	0.9	8
14	Requirements for the Deployment of Sensor Based Recognition Systems for Ambient Assistive Living. *Lecture Notes in Computer Science*, **2010**, 218-221	0.9	1
13	Smart Home Research. *International Journal of Ambient Computing and Intelligence*, **2009**, 1, 32-45	2.7	30
12	Semantic Smart Homes: Towards Knowledge Rich Assisted Living Environments. *Studies in Computational Intelligence*, **2009**, 279-296	0.8	38
11	Semantic data management for situation-aware assistance in ambient assisted living **2009**,		11
10	Ontology-based activity recognition in intelligent pervasive environments. *International Journal of Web Information Systems*, **2009**, 5, 410-430	0.9	165
9	Spatiotemporal Data Acquisition Modalities for Smart Home Inhabitant Movement Behavioural Analysis. *Lecture Notes in Computer Science*, **2009**, 294-298	0.9	4
8	Using Event Calculus for Behaviour Reasoning and Assistance in a Smart Home. *Lecture Notes in Computer Science*, **2008**, 81-89	0.9	21
7	An Intelligent Recommender System for Web Resource Discovery and Selection. *Studies in Computational Intelligence*, **2008**, 113-140	0.8	6
6	Semantic Tagging for Large-scale Content Management **2007**,		1
5	. *IEEE Transactions on Knowledge and Data Engineering*, **2007**, 19, 283-296	4.2	19
4	A Semantic Web Service Based Approach for Augmented Provenance **2006**,		6
3	Applying AI Planning to Semantic Web Services for Workflow Generation **2005**,		6
2	SEMANTICS-ASSISTED PROBLEM SOLVING ON THE SEMANTIC GRID. *Computational Intelligence*, **2005**, 21, 157-176	2.5	20

1   Towards a Knowledge-Based Approach to Semantic Service Composition. *Lecture Notes in Computer Science*, **2003**, 319-334   0.9   43

1   Towards a Knowledge-Based Approach to Semantic Service Composition. *Lecture Notes in Computer Science*, **2003**, 319-334   0.9   43