

# Li-minn Ang

## List of Publications by Year in Descending Order

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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.

148  
papers

1,588  
citations

22  
h-index

36  
g-index

203  
ext. papers

2,011  
ext. citations

2.6  
avg. IF

5.43  
L-index

#	Paper	IF	Citations
148	Towards Crowdsourcing Internet of Things (Crowd-IoT): Architectures, Security and Applications. <i>Future Internet</i> , <b>2022</b> , 14, 49	3.3	1
147	Swarm Intelligence Techniques for Mobile Wireless Charging. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 371	2.6	3
146	Emerging Technologies for Smart Cities Transportation: Geo-Information, Data Analytics and Machine Learning Approaches. <i>ISPRS International Journal of Geo-Information</i> , <b>2022</b> , 11, 85	2.9	7
145	Artificial intelligence Internet of Things: A new paradigm of distributed sensor networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2022</b> , 18, 155014772110628	1.7	2
144	Wireless power transfer and energy harvesting in distributed sensor networks: Survey, opportunities, and challenges. <i>International Journal of Distributed Sensor Networks</i> , <b>2022</b> , 18, 155014772110677	1.7	6
143	Embedded Intelligence: State-of-the-Art and Research Challenges. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	2
142	Data Convexity and Parameter Independent Clustering for Biomedical Datasets. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2021</b> , 18, 765-772	3	1
141	Biometrics-based Internet of Things and Big data design framework. <i>Mathematical Biosciences and Engineering</i> , <b>2021</b> , 18, 4461-4476	2.1	1
140	Meta-scalable discriminate analytics for Big hyperspectral data and applications. <i>Expert Systems With Applications</i> , <b>2021</b> , 176, 114777	7.8	1
139	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 13165-13182	10.7	3
138	Big Data and Machine Learning With Hyperspectral Information in Agriculture. <i>IEEE Access</i> , <b>2021</b> , 9, 36699-36718	9.5	18
137	Mathematical modeling and mining real-world Big education datasets with application to curriculum mapping. <i>Mathematical Biosciences and Engineering</i> , <b>2021</b> , 18, 4450-4460	2.1	
136	Augmented Audio Data in Improving Speech Emotion Classification Tasks. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 360-365	0.9	1
135	Improving Human Emotion Recognition from Emotive Videos Using Geometric Data Augmentation. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 149-161	0.9	
134	. <i>IEEE Access</i> , <b>2020</b> , 8, 116392-116414	3.5	29
133	Clustering biomedical and gene expression datasets with kernel density and unique neighborhood set based vein detection. <i>Information Systems</i> , <b>2020</b> , 91, 101490	2.7	2
132	Customer Satisfaction through Technological Integration <b>2020</b> , 1824-1858		

131	Multimodal big data affective analytics: A comprehensive survey using text, audio, visual and physiological signals. <i>Journal of Network and Computer Applications</i> , <b>2020</b> , 149, 102447	7.9	31
130	. <i>IEEE Access</i> , <b>2019</b> , 7, 56577-56590	3.5	46
129	A quarter of a century of monitoring herbicide resistance in <i>Lolium rigidum</i> in Australia. <i>Crop and Pasture Science</i> , <b>2019</b> , 70, 283	2.2	15
128	Multimodal Emotion and Sentiment Modeling From Unstructured Big Data: Challenges, Architecture, & Techniques. <i>IEEE Access</i> , <b>2019</b> , 7, 90982-90998	3.5	11
127	. <i>IEEE Access</i> , <b>2019</b> , 7, 25063-25085	3.5	15
126	Cropping practices influence incidence of herbicide resistance in annual ryegrass ( <i>Lolium rigidum</i> ) in Australia. <i>Crop and Pasture Science</i> , <b>2019</b> , 70, 77	2.2	5
125	A low-complexity DWT module and CRS minimal instruction set computer architecture for wireless visual sensor networks. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , <b>2019</b> , 30, 73	0.7	1
124	Deployment of IoV for Smart Cities: Applications, Architecture, and Challenges. <i>IEEE Access</i> , <b>2019</b> , 7, 6473-6492	3.5	74
123	Emotion Recognition Using Multiple Kernel Learning toward E-learning Applications. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , <b>2018</b> , 14, 1-20	3.4	12
122	A Combined Rule-Based & Machine Learning Audio-Visual Emotion Recognition Approach. <i>IEEE Transactions on Affective Computing</i> , <b>2018</b> , 9, 3-13	5.7	32
121	Optimizing Energy Consumption for Big Data Collection in Large-Scale Wireless Sensor Networks With Mobile Collectors. <i>IEEE Systems Journal</i> , <b>2018</b> , 12, 616-626	4.3	68
120	Video Analytics for Customer Emotion and Satisfaction at Contact Centers. <i>IEEE Transactions on Human-Machine Systems</i> , <b>2018</b> , 48, 266-278	4.1	20
119	Big data and machine learning for crop protection. <i>Computers and Electronics in Agriculture</i> , <b>2018</b> , 151, 376-383	6.5	56
118	Biologically Inspired Components in Embedded Vision Systems <b>2018</b> , 458-493		
117	A Big Data Layered Architecture and Functional Units for the Multimedia Internet of Things. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , <b>2018</b> , 4, 500-512		11
116	Computer Vision and Machine Learning for Viticulture Technology. <i>IEEE Access</i> , <b>2018</b> , 6, 67494-67510	3.5	27
115	Unique Neighborhood Set Parameter Independent Density-Based Clustering With Outlier Detection. <i>IEEE Access</i> , <b>2018</b> , 6, 44707-44717	3.5	15
114	Big Sensor Data Systems for Smart Cities. <i>IEEE Internet of Things Journal</i> , <b>2017</b> , 4, 1259-1271	10.7	59

113	Big Feature Data Analytics: Split and Combine Linear Discriminant Analysis (SC-LDA) for Integration Towards Decision Making Analytics. <i>IEEE Access</i> , <b>2017</b> , 5, 14056-14065	3.5	18
112	RFID and Dead-Reckoning-Based Indoor Navigation for Visually Impaired Pedestrians. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , <b>2017</b> , 380-396	0.2	1
111	Customer Satisfaction through Technological Integration. <i>International Journal of Technology and Educational Marketing</i> , <b>2016</b> , 6, 49-78		
110	Big Sensor Data Applications in Urban Environments. <i>Big Data Research</i> , <b>2016</b> , 4, 1-12	3.7	60
109	Energy-efficient adaptive data compression in wireless sensor networks. <i>International Journal of Sensor Networks</i> , <b>2016</b> , 22, 229	0.8	1
108	Utilizing Social Insect-Based Communities for Routing in Network-based Sensor Systems. <i>International Journal of Swarm Intelligence Research</i> , <b>2016</b> , 7, 52-70	1.1	1
107	Information Communication Assistive Technologies for Visually Impaired People. <i>International Journal of Ambient Computing and Intelligence</i> , <b>2016</b> , 7, 45-68	2.7	15
106	Fast and efficient lossless adaptive compression scheme for wireless sensor networks. <i>Computers and Electrical Engineering</i> , <b>2015</b> , 41, 275-287	4.3	18
105	Uninformed pathfinding: A new approach. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 2722-2730	7.8	8
104	A comprehensive survey of modern symmetric cryptographic solutions for resource constrained environments. <i>Journal of Network and Computer Applications</i> , <b>2015</b> , 49, 15-50	7.9	49
103	Automated Technology Integrations for Customer Satisfaction Assessment. <i>Advances in Marketing, Customer Relationship Management, and E-services Book Series</i> , <b>2015</b> , 606-620	0.3	1
102	Artificial Insect Algorithms for Routing in Wireless Sensor Systems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2015</b> , 191-213	0.4	
101	Biologically Inspired Components in Embedded Vision Systems. <i>International Journal of Systems Biology and Biomedical Technologies</i> , <b>2015</b> , 3, 39-72		
100	Multi-scale discriminant saliency with wavelet-based Hidden Markov Tree modelling. <i>Computers and Electrical Engineering</i> , <b>2014</b> , 40, 1376-1389	4.3	
99	A new approach of audio emotion recognition. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 5858-5869	7.8	66
98	Uninformed multigoal pathfinding on grid maps <b>2014</b> ,		4
97	The effect of rainfall on feature points extraction and image stitching <b>2014</b> ,		2
96	Wireless Multimedia Sensor Networks on Reconfigurable Hardware <b>2013</b> ,		11

95	Wireless Multimedia Sensor Network Technology <b>2013</b> , 5-38		3
94	A formal mathematical framework for modeling and simulation of wireless sensor network environments utilizing the hill-building behavior of termites. <i>Simulation</i> , <b>2013</b> , 89, 589-615	1.2	5
93	Single-View Information Reduction Techniques for WMSN Using Event Detection <b>2013</b> , 105-157		
92	Hardware Technology and Programming Languages for Reconfigurable Devices <b>2013</b> , 39-68		
91	A Simple Data Compression Algorithm for Wireless Sensor Networks. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 327-336	0.4	7
90	Selective secure error correction on SPIHT coefficients for pervasive wireless visual network. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , <b>2013</b> , 13, 73	0.7	4
89	Performance comparison of data compression algorithms for environmental monitoring wireless sensor networks. <i>International Journal of Computer Applications in Technology</i> , <b>2013</b> , 46, 65	0.7	9
88	Minimalist security and privacy schemes based on enhanced AES for integrated WISP sensor networks. <i>International Journal of Communication Networks and Distributed Systems</i> , <b>2013</b> , 11, 214	0.4	2
87	Energy Efficiency Performance Improvements for Ant-Based Routing Algorithm in Wireless Sensor Networks. <i>Journal of Sensors</i> , <b>2013</b> , 2013, 1-17	2	22
86	A Very Compact AES-SPIHT Selective Encryption Computer Architecture Design with Improved S-Box. <i>Journal of Engineering (United States)</i> , <b>2013</b> , 2013, 1-26	1.5	4
85	Information-Based Scale Saliency Methods with Wavelet Sub-band Energy Density Descriptors. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 366-376	0.9	1
84	Single-View Information Reduction Techniques for WMSN Using Event Compression <b>2013</b> , 159-206		
83	Audio Visual System for Large Scale People Authentication and Recognition over Internet Protocol (IP) <b>2013</b> , 997-1017		
82	Multiscale Discriminant Saliency for Visual Attention. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 464-484	0.9	
81	Multiple-View Information Reduction Techniques for WMSN Using Image Stitching <b>2013</b> , 207-248		1
80	Classical and swarm intelligence based routing protocols for wireless sensor networks: A survey and comparison. <i>Journal of Network and Computer Applications</i> , <b>2012</b> , 35, 1508-1536	7.9	188
79	Low memory visual saliency architecture for data reduction in wireless sensor networks. <i>IET Wireless Sensor Systems</i> , <b>2012</b> , 2, 115	1.6	10
78	<b>2012</b> ,		5

77	Low-memory video compression architecture using strip-based processing for implementation in wireless multimedia sensor networks. <i>International Journal of Sensor Networks</i> , <b>2012</b> , 11, 33	0.8	25
76	Termite-Hill: Routing towards a Mobile Sink for Improving Network Lifetime in Wireless Sensor Networks <b>2012</b> ,		7
75	Termite-hill: Performance optimized swarm intelligence based routing algorithm for wireless sensor networks. <i>Journal of Network and Computer Applications</i> , <b>2012</b> , 35, 1901-1917	7.9	38
74	MIMO Lyapunov Theory-Based RBF Neural Classifier for Traffic Sign Recognition. <i>Applied Computational Intelligence and Soft Computing</i> , <b>2012</b> , 2012, 1-7	2.7	8
73	An Adaptive Lossless Data Compression Scheme for Wireless Sensor Networks. <i>Journal of Sensors</i> , <b>2012</b> , 2012, 1-20	2	39
72	Performance of Termite-Hill Routing Algorithm on Sink Mobility in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 334-343	0.9	8
71	Visual saliency based on fast nonparametric multidimensional entropy estimation <b>2012</b> ,		2
70	Lips Contour Detection and Tracking Using Watershed Region-Based Active Contour Model and Modified $\$H_{\infty}\$$ . <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2012</b> , 22, 869-874	6.4	10
69	Adaptive momentum Levenberg-Marquardt RBF for face recognition <b>2012</b> ,		1
68	River Flow Lane Detection and Kalman Filtering-Based B-Spline Lane Tracking. <i>International Journal of Vehicular Technology</i> , <b>2012</b> , 2012, 1-10		21
67	Low memory image stitching and compression for WMSN using strip-based processing. <i>International Journal of Sensor Networks</i> , <b>2012</b> , 11, 22	0.8	26
66	Block-based Deep Belief Networks for face recognition. <i>International Journal of Biometrics</i> , <b>2012</b> , 4, 130	0.4	5
65	Improved Energy-Efficient Ant-Based Routing Algorithm in Wireless Sensor Networks <b>2012</b> , 420-444		1
64	Termite-Hill. <i>International Journal of Swarm Intelligence Research</i> , <b>2012</b> , 3, 1-22	1.1	5
63	Audio-Visual Speech Processing for Human Computer Interaction. <i>Intelligent Systems Reference Library</i> , <b>2012</b> , 135-165	0.8	6
62	Multiband Curvelet-Based Technique for Audio Visual Recognition over Internet Protocol. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2012</b> , 132-138	0.2	
61	Audio-Visual Recognition System in Compression Domain. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 637-646	6.4	4
60	Radial Basis Function Neural Network With Incremental Learning for Face Recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2011</b> , 41, 940-9		31

59	Robust video authentication system over internet protocol. <i>International Journal of Biometrics</i> , <b>2011</b> , 3, 322	0.4	1
58	Low-complexity Two Instruction Set Computer architecture for sensor network using Skipjack encryption <b>2011</b> ,		1
57	Audio-Emotion Recognition System Using Parallel Classifiers and Audio Feature Analyzer <b>2011</b> ,		8
56	A new multi-purpose audio-visual UNMC-VIER database with multiple variabilities. <i>Pattern Recognition Letters</i> , <b>2011</b> , 32, 1503-1510	4.7	29
55	BINARY-UNCODED IMAGE AND VIDEO COMPRESSION USING SPIHT-ZTR CODING. <i>International Journal of Image and Graphics</i> , <b>2011</b> , 11, 415-437	0.5	2
54	Ant Based Routing Protocol for Visual Sensors. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 250-264	0.3	8
53	Data Compression Algorithms for Visual Information. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 484-497	0.3	
52	Improved voice activity detection for speech recognition system <b>2010</b> ,		3
51	Curvelet-based illumination invariant feature extraction for face recognition <b>2010</b> ,		2
50	Smart Guide System to Assist Visually Impaired People in an Indoor Environment. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , <b>2010</b> , 27, 455	1.5	6
49	Intra color-shape classification for traffic sign recognition <b>2010</b> ,		13
48	Improvement and evaluation of visual saliency based on information theory <b>2010</b> ,		1
47	Minimal Instruction Set FPGA AES processor using Handel $\mathbb{C}$ <b>2010</b> ,		1
46	<b>2010</b> ,		1
45	Efficient connected component labelling using multiple-bank memory storage <b>2010</b> ,		1
44	Implementation of (15, 9) Reed Solomon Minimal Instruction Set Computing on FPGA using Handel-C <b>2010</b> ,		1
43	Bottom-up visual saliency map using wavelet transform domain <b>2010</b> ,		6
42	Enhanced multiband feature technique for face recognition under varying illumination <b>2010</b> ,		1

41	Dual optimal multiband features for face recognition. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 2957-2962	9
40	A Lyapunov Theory-Based Neural Network Approach for Face Recognition <b>2010</b> , 23-48	1
39	Comparison of Colour Spaces for Visual Saliency <b>2009</b> ,	2
38	Multiview Image Compression for Wireless Multimedia Sensor Network Using Image Stitching and SPIHT Coding with EZW Tree Structure <b>2009</b> ,	5
37	Real-Time Implementation of Vision-Based Lane Detection and Tracking <b>2009</b> ,	7
36	FACE DETECTION FROM GREYSCALE IMAGES USING DETAILS FROM CATEGORIZED WAVELET COEFFICIENTS AS FEATURES FOR A DYNAMIC SUPERVISED FORWARD PROPAGATION NETWORK. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2009</b> , 23, 3-15	1.1 2
35	HIGH PERFORMANCE, LOW-COMPLEXITY LINE-BASED MOTION ESTIMATION ALGORITHM WITH SMOOTHING AND PREPROCESSING. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2009</b> , 23, 101-114	1.1 2
34	Lyapunov Theory-Based Multilayered Neural Network. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2009</b> , 56, 305-309	3.5 15
33	Lane Detection and Kalman-Based Linear-Parabolic Lane Tracking <b>2009</b> ,	22
32	A Survey of Bottom-Up Visual Saliency Methods in Wireless Multimedia Sensor Networks <b>2009</b> ,	1
31	Low Memory Strip-Based Image Compression for Color Images <b>2009</b> ,	1
30	Vision-based Lane-Vehicle Detection and Tracking <b>2009</b> ,	2
29	Efficient Processing of a Rainfall Simulation Watershed on an FPGA-Based Architecture with Fast Access to Neighbourhood Pixels. <i>Eurasip Journal on Embedded Systems</i> , <b>2009</b> , 2009, 1-19	2 3
28	Very Low-Memory Wavelet Compression Architecture Using Strip-Based Processing for Implementation in Wireless Sensor Networks. <i>Eurasip Journal on Embedded Systems</i> , <b>2009</b> , 2009, 479281 <sup>2</sup>	20
27	Enhanced Lips Detection and Tracking System. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 254-265	0.9
26	Low Memory Implementation of Saliency Map Using Strip-Based Method. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 715-726	0.9 1
25	SmartGuide system to assist visually impaired people in a university environment <b>2009</b> ,	3
24	Enhanced Audio-Visual Recognition System over Internet Protocol. <i>Lecture Notes in Electrical Engineering</i> , <b>2009</b> , 137-149	0.2 1



23	Lossless Color Image Compression Using Tuned Degree-K Zerotree Wavelet Coding. <i>Lecture Notes in Electrical Engineering</i> , <b>2009</b> , 151-163	0.2	2
22	Image Compression Using Stitching with Harris Corner Detector and SPIHT Coding. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 653-663	0.9	
21	New H infinity Approach for Face Tracking <b>2008</b> ,		1
20	Survey of image compression algorithms in wireless sensor networks <b>2008</b> ,		11
19	A new multimodal biometric system using tripled chaotic watermarking approach <b>2008</b> ,		2
18	A multiview face recognition system based on eigenface method <b>2008</b> ,		4
17	Wireless intelligent incontinence management system using smart diapers <b>2008</b> ,		3
16	New Virtual SPIHT Tree Structures for Very Low Memory Strip-Based Image Compression. <i>IEEE Signal Processing Letters</i> , <b>2008</b> , 15, 389-392	3.2	22
15	Theoretical Investigation on Post-Processed LDA for Face and Palmprint Recognition <b>2007</b> ,		2
14	Low-Complexity Line-Based Motion Estimation Algorithm <b>2007</b> ,		2
13	Audio-Visual Recognition System with Intra-Modal Fusion <b>2007</b> ,		1
12	New Parallel Models for Face Recognition <b>2007</b> ,		5
11	Adaptive RBF Neural Network Training Algorithm For Nonlinear And Nonstationary Signal <b>2006</b> ,		2
10	A Low-Complexity Interleaved Image Wavelet Transform Architecture for a Visual Sensor Node <b>2006</b> ,		1
9	FPGA implementation of an integer MIPS processor in Handel-C and its application to human face detection		9
8	A dataflow-oriented VLSI architecture for a modified SPIHT algorithm using depth-first search bit stream processing		2
7	Implementation of Biologically Inspired Components in Embedded Vision Systems 307-345		1
6	RFID and Dead-Reckoning-Based Indoor Navigation for Visually Impaired Pedestrians 1-16		

- 5 Information Communication Assistive Technologies for Visually Impaired People17-43
- 4 Visual Sensor Network Technology and Its Applications1-19
- 3 FPGA Technology for Implementation in Visual Sensor Networks293-324
- 2 3D Face Recognition using an Adaptive Non-Uniform Face Mesh562-573
- 1 Audio Visual System for Large Scale People Authentication and Recognition over Internet Protocol (IP)183-203