Li-minn Ang

List of Publications by Citations

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	Classical and swarm intelligence based routing protocols for wireless sensor networks: A survey and comparison. *Journal of Network and Computer Applications*, **2012**, 35, 1508-1536	7.9	188
147	Deployment of IoV for Smart Cities: Applications, Architecture, and Challenges. *IEEE Access*, **2019**, 7, 6473-6492	3.5	74
146	Optimizing Energy Consumption for Big Data Collection in Large-Scale Wireless Sensor Networks With Mobile Collectors. *IEEE Systems Journal*, **2018**, 12, 616-626	4.3	68
145	A new approach of audio emotion recognition. *Expert Systems With Applications*, **2014**, 41, 5858-5869	7.8	66
144	Big Sensor Data Applications in Urban Environments. *Big Data Research*, **2016**, 4, 1-12	3.7	60
143	Big Sensor Data Systems for Smart Cities. *IEEE Internet of Things Journal*, **2017**, 4, 1259-1271	10.7	59
142	Big data and machine learning for crop protection. *Computers and Electronics in Agriculture*, **2018**, 151, 376-383	6.5	56
141	A comprehensive survey of modern symmetric cryptographic solutions for resource constrained environments. *Journal of Network and Computer Applications*, **2015**, 49, 15-50	7.9	49
140	. *IEEE Access*, **2019**, 7, 56577-56590	3.5	46
139	An Adaptive Lossless Data Compression Scheme for Wireless Sensor Networks. *Journal of Sensors*, **2012**, 2012, 1-20	2	39
138	Termite-hill: Performance optimized swarm intelligence based routing algorithm for wireless sensor networks. *Journal of Network and Computer Applications*, **2012**, 35, 1901-1917	7.9	38
137	A Combined Rule-Based & Machine Learning Audio-Visual Emotion Recognition Approach. *IEEE Transactions on Affective Computing*, **2018**, 9, 3-13	5.7	32
136	Radial Basis Function Neural Network With Incremental Learning for Face Recognition. *IEEE Transactions on Systems, Man, and Cybernetics*, **2011**, 41, 940-9		31
135	Multimodal big data affective analytics: A comprehensive survey using text, audio, visual and physiological signals. *Journal of Network and Computer Applications*, **2020**, 149, 102447	7.9	31
134	. *IEEE Access*, **2020**, 8, 116392-116414	3.5	29
133	A new multi-purpose audio-visual UNMC-VIER database with multiple variabilities. *Pattern Recognition Letters*, **2011**, 32, 1503-1510	4.7	29
132	Computer Vision and Machine Learning for Viticulture Technology. *IEEE Access*, **2018**, 6, 67494-67510	3.5	27

131	Low memory image stitching and compression for WMSN using strip-based processing. *International Journal of Sensor Networks*, **2012**, 11, 22	0.8	26
130	Low-memory video compression architecture using strip-based processing for implementation in wireless multimedia sensor networks. *International Journal of Sensor Networks*, **2012**, 11, 33	0.8	25
129	Energy Efficiency Performance Improvements for Ant-Based Routing Algorithm in Wireless Sensor Networks. *Journal of Sensors*, **2013**, 2013, 1-17	2	22
128	Lane Detection and Kalman-Based Linear-Parabolic Lane Tracking **2009**,		22
127	New Virtual SPIHT Tree Structures for Very Low Memory Strip-Based Image Compression. *IEEE Signal Processing Letters*, **2008**, 15, 389-392	3.2	22
126	River Flow Lane Detection and Kalman Filtering-Based B-Spline Lane Tracking. *International Journal of Vehicular Technology*, **2012**, 2012, 1-10		21
125	Video Analytics for Customer Emotion and Satisfaction at Contact Centers. *IEEE Transactions on Human-Machine Systems*, **2018**, 48, 266-278	4.1	20
124	Very Low-Memory Wavelet Compression Architecture Using Strip-Based Processing for Implementation in Wireless Sensor Networks. *Eurasip Journal on Embedded Systems*, **2009**, 2009, 479281	2	20
123	Fast and efficient lossless adaptive compression scheme for wireless sensor networks. *Computers and Electrical Engineering*, **2015**, 41, 275-287	4.3	18
122	Big Feature Data Analytics: Split and Combine Linear Discriminant Analysis (SC-LDA) for Integration Towards Decision Making Analytics. *IEEE Access*, **2017**, 5, 14056-14065	3.5	18
121	Big Data and Machine Learning With Hyperspectral Information in Agriculture. *IEEE Access*, **2021**, 9, 36699-36718	3.5	18
120	A quarter of a century of monitoring herbicide resistance in Lolium rigidum in Australia. *Crop and Pasture Science*, **2019**, 70, 283	2.2	15
119	Lyapunov Theory-Based Multilayered Neural Network. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2009**, 56, 305-309	3.5	15
118	Information Communication Assistive Technologies for Visually Impaired People. *International Journal of Ambient Computing and Intelligence*, **2016**, 7, 45-68	2.7	15
117	. *IEEE Access*, **2019**, 7, 25063-25085	3.5	15
116	Unique Neighborhood Set Parameter Independent Density-Based Clustering With Outlier Detection. *IEEE Access*, **2018**, 6, 44707-44717	3.5	15
115	Intra color-shape classification for traffic sign recognition **2010**,		13
114	Emotion Recognition Using Multiple Kernel Learning toward E-learning Applications. *ACM Transactions on Multimedia Computing, Communications and Applications*, **2018**, 14, 1-20	3.4	12

113	Multimodal Emotion and Sentiment Modeling From Unstructured Big Data: Challenges, Architecture, & Techniques. *IEEE Access*, **2019**, 7, 90982-90998	3.5	11
112	Wireless Multimedia Sensor Networks on Reconfigurable Hardware **2013**,		11
111	Survey of image compression algorithms in wireless sensor networks **2008**,		11
110	A Big Data Layered Architecture and Functional Units for the Multimedia Internet of Things. *IEEE Transactions on Multi-Scale Computing Systems*, **2018**, 4, 500-512		11
109	Low memory visual saliency architecture for data reduction in wireless sensor networks. *IET Wireless Sensor Systems*, **2012**, 2, 115	1.6	10
108	Lips Contour Detection and Tracking Using Watershed Region-Based Active Contour Model and Modified H_{infty}. *IEEE Transactions on Circuits and Systems for Video Technology*, **2012**, 22, 869-874	6.4	10
107	Performance comparison of data compression algorithms for environmental monitoring wireless sensor networks. *International Journal of Computer Applications in Technology*, **2013**, 46, 65	0.7	9
106	Dual optimal multiband features for face recognition. *Expert Systems With Applications*, **2010**, 37, 2957-2962	7.8	9
105	FPGA implementation of an integer MIPS processor in Handel-C and its application to human face detection		9
104	Uninformed pathfinding: A new approach. *Expert Systems With Applications*, **2015**, 42, 2722-2730	7.8	8
103	MIMO Lyapunov Theory-Based RBF Neural Classifier for Traffic Sign Recognition. *Applied Computational Intelligence and Soft Computing*, **2012**, 2012, 1-7	2.7	8
102	Audio-Emotion Recognition System Using Parallel Classifiers and Audio Feature Analyzer **2011**,		8
101	Performance of Termite-Hill Routing Algorithm on Sink Mobility in Wireless Sensor Networks. *Lecture Notes in Computer Science*, **2012**, 334-343	0.9	8
100	Ant Based Routing Protocol for Visual Sensors. *Communications in Computer and Information Science*, **2011**, 250-264	0.3	8
99	Termite-Hill: Routing towards a Mobile Sink for Improving Network Lifetime in Wireless Sensor Networks **2012**,		7
98	A Simple Data Compression Algorithm for Wireless Sensor Networks. *Advances in Intelligent Systems and Computing*, **2013**, 327-336	0.4	7
97	Real-Time Implementation of Vision-Based Lane Detection and Tracking **2009**,		7
96	Emerging Technologies for Smart Cities Transportation: Geo-Information, Data Analytics and Machine Learning Approaches. *ISPRS International Journal of Geo-Information*, **2022**, 11, 85	2.9	7

95	Smart Guide System to Assist Visually Impaired People in an Indoor Environment. *IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)*, **2010**, 27, 455	1.5	6
94	Bottom-up visual saliency map using wavelet transform domain **2010**,		6
93	Audio-Visual Speech Processing for Human Computer Interaction. *Intelligent Systems Reference Library*, **2012**, 135-165	0.8	6
92	Wireless power transfer and energy harvesting in distributed sensor networks: Survey, opportunities, and challenges. *International Journal of Distributed Sensor Networks*, **2022**, 18, 15501477211067	1.7	6
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90	A formal mathematical framework for modeling and simulation of wireless sensor network environments utilizing the hill-building behavior of termites. *Simulation*, **2013**, 89, 589-615	1.2	5
89	Multiview Image Compression for Wireless Multimedia Sensor Network Using Image Stitching and SPIHT Coding with EZW Tree Structure **2009**,		5
88	Block-based Deep Belief Networks for face recognition. *International Journal of Biometrics*, **2012**, 4, 130	0.4	5
87	New Parallel Models for Face Recognition **2007**,		5
86	Termite-Hill. *International Journal of Swarm Intelligence Research*, **2012**, 3, 1-22	1.1	5
85	Cropping practices influence incidence of herbicide resistance in annual ryegrass (Lolium rigidum) in Australia. *Crop and Pasture Science*, **2019**, 70, 77	2.2	5
84	Uninformed multigoal pathfinding on grid maps **2014**,		4
83	Selective secure error correction on SPIHT coefficients for pervasive wireless visual network. *International Journal of Ad Hoc and Ubiquitous Computing*, **2013**, 13, 73	0.7	4
82	A Very Compact AES-SPIHT Selective Encryption Computer Architecture Design with Improved S-Box. *Journal of Engineering (United States)*, **2013**, 2013, 1-26	1.5	4
81	Audio-Visual Recognition System in Compression Domain. *IEEE Transactions on Circuits and Systems for Video Technology*, **2011**, 21, 637-646	6.4	4
80	A multiview face recognition system based on eigenface method **2008**,		4
79	Wireless Multimedia Sensor Network Technology **2013**, 5-38		3
78	Improved voice activity detection for speech recognition system **2010**,		3

77	Efficient Processing of a Rainfall Simulation Watershed on an FPGA-Based Architecture with Fast Access to Neighbourhood Pixels. *Eurasip Journal on Embedded Systems*, **2009**, 2009, 1-19	2	3
76	Wireless intelligent incontinence management system using smart diapers **2008**,		3
75	Swarm Intelligence Techniques for Mobile Wireless Charging. *Electronics (Switzerland)*, **2022**, 11, 371	2.6	3
74	SmartGuide system to assist visually impaired people in a university environment **2009**,		3
73	. *IEEE Internet of Things Journal*, **2021**, 8, 13165-13182	10.7	3
72	Clustering biomedical and gene expression datasets with kernel density and unique neighborhood set based vein detection. *Information Systems*, **2020**, 91, 101490	2.7	2
71	The effect of rainfall on feature points extraction and image stitching **2014**,		2
70	Minimalist security and privacy schemes based on enhanced AES for integrated WISP sensor networks. *International Journal of Communication Networks and Distributed Systems*, **2013**, 11, 214	0.4	2
69	Curvelet-based illumination invariant feature extraction for face recognition **2010**,		2
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67	FACE DETECTION FROM GREYSCALE IMAGES USING DETAILS FROM CATEGORIZED WAVELET COEFFICIENTS AS FEATURES FOR A DYNAMIC SUPERVISED FORWARD PROPAGATION NETWORK. *International Journal of Pattern Recognition and Artificial Intelligence*, **2009**, 23, 3-15	1.1	2
66	HIGH PERFORMANCE, LOW-COMPLEXITY LINE-BASED MOTION ESTIMATION ALGORITHM WITH SMOOTHING AND PREPROCESSING. *International Journal of Pattern Recognition and Artificial Intelligence*, **2009**, 23, 101-114	1.1	2
65	BINARY-UNCODED IMAGE AND VIDEO COMPRESSION USING SPIHT-ZTR CODING. *International Journal of Image and Graphics*, **2011**, 11, 415-437	0.5	2
64	Visual saliency based on fast nonparametric multidimensional entropy estimation **2012**,		2
63	Vision-based Lane-Vehicle Detection and Tracking **2009**,		2
62	A new multimodal biometric system using tripled chaotic watermarking approach **2008**,		2
61	Theoretical Investigation on Post-Processed LDA for Face and Palmprint Recognition **2007**,		2
60	Adaptive RBF Neural Network Training Algorithm For Nonlinear And Nonstationary Signal **2006**,		2

59	Low-Complexity Line-Based Motion Estimation Algorithm **2007,**		2
58	A dataflow-oriented VLSI architecture for a modified SPIHT algorithm using depth-first search bit stream processing		2
57	Lossless Color Image Compression Using Tuned Degree-K Zerotree Wavelet Coding. *Lecture Notes in Electrical Engineering*, **2009**, 151-163	0.2	2
56	Artificial intelligence Internet of Things: A new paradigm of distributed sensor networks. *International Journal of Distributed Sensor Networks*, **2022**, 18, 155014772110628	1.7	2
55	Embedded Intelligence: State-of-the-Art and Research Challenges. *IEEE Access*, **2022**, 1-1	3.5	2
54	Robust video authentication system over internet protocol. *International Journal of Biometrics*, **2011**, 3, 322	0.4	1
53	Improvement and evaluation of visual saliency based on information theory **2010,**		1
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50	Efficient connected component labelling using multiple-bank memory storage **2010,**		1
49	Implementation of (15, 9) Reed Solomon Minimal Instruction Set Computing on FPGA using Handel-C **2010,**		1
48	Enhanced multiband feature technique for face recognition under varying illumination **2010,**		1
47	Low-complexity Two Instruction Set Computer architecture for sensor network using Skipjack encryption **2011,**		1
46	Adaptive momentum Levenberg-Marquardt RBF for face recognition **2012,**		1
45	A Survey of Bottom-Up Visual Saliency Methods in Wireless Multimedia Sensor Networks **2009,**		1
44	Low Memory Strip-Based Image Compression for Color Images **2009,**		1
43	New H infinity Approach for Face Tracking **2008,**		1
42	A Low-Complexity Interleaved Image Wavelet Transform Architecture for a Visual Sensor Node **2006,**		1

41	Audio-Visual Recognition System with Intra-Modal Fusion **2007**,	1
40	Towards Crowdsourcing Internet of Things (Crowd-IoT): Architectures, Security and Applications. *Future Internet*, **2022**, 14, 49	3.3	1
39	Implementation of Biologically Inspired Components in Embedded Vision Systems307-345	1
38	Improved Energy-Efficient Ant-Based Routing Algorithm in Wireless Sensor Networks **2012**, 420-444	1
37	RFID and Dead-Reckoning-Based Indoor Navigation for Visually Impaired Pedestrians. *Advances in Wireless Technologies and Telecommunication Book Series*, **2017**, 380-396	0.2	1
36	Information-Based Scale Saliency Methods with Wavelet Sub-band Energy Density Descriptors. *Lecture Notes in Computer Science*, **2013**, 366-376	0.9	1
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34	Low Memory Implementation of Saliency Map Using Strip-Based Method. *Lecture Notes in Computer Science*, **2009**, 715-726	0.9	1
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32	A Lyapunov Theory-Based Neural Network Approach for Face Recognition **2010**, 23-48	1
31	Multiple-View Information Reduction Techniques for WMSN Using Image Stitching **2013**, 207-248	1
30	Energy-efficient adaptive data compression in wireless sensor networks. *International Journal of Sensor Networks*, **2016**, 22, 229	0.8	1
29	Utilizing Social Insect-Based Communities for Routing in Network-based Sensor Systems. *International Journal of Swarm Intelligence Research*, **2016**, 7, 52-70	1.1	1
28	A low-complexity DWT module and CRS minimal instruction set computer architecture for wireless visual sensor networks. *International Journal of Ad Hoc and Ubiquitous Computing*, **2019**, 30, 73	0.7	1
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26	Biometrics-based Internet of Things and Big data design framework. *Mathematical Biosciences and Engineering*, **2021**, 18, 4461-4476	2.1	1
25	Meta-scalable discriminate analytics for Big hyperspectral data and applications. *Expert Systems With Applications*, **2021**, 176, 114777	7.8	1
24	Augmented Audio Data in Improving Speech Emotion Classification Tasks. *Lecture Notes in Computer Science*, **2021**, 360-365	0.9	1

23	Customer Satisfaction through Technological Integration. *International Journal of Technology and Educational Marketing*, **2016**, 6, 49-78	
22	Multi-scale discriminant saliency with wavelet-based Hidden Markov Tree modelling. *Computers and Electrical Engineering*, **2014**, 40, 1376-1389	4.3
21	Single-View Information Reduction Techniques for WMSN Using Event Detection **2013**, 105-157	
20	Hardware Technology and Programming Languages for Reconfigurable Devices **2013**, 39-68	
19	Customer Satisfaction through Technological Integration **2020**, 1824-1858	
18	RFID and Dead-Reckoning-Based Indoor Navigation for Visually Impaired Pedestrians1-16	
17	Information Communication Assistive Technologies for Visually Impaired People17-43	
16	Visual Sensor Network Technology and Its Applications1-19	
15	FPGA Technology for Implementation in Visual Sensor Networks293-324	
14	3D Face Recognition using an Adaptive Non-Uniform Face Mesh562-573	
13	Audio Visual System for Large Scale People Authentication and Recognition over Internet Protocol (IP)183-203	
12	Biologically Inspired Components in Embedded Vision Systems **2018**, 458-493	
11	Artificial Insect Algorithms for Routing in Wireless Sensor Systems. *Advances in Computational Intelligence and Robotics Book Series*, **2015**, 191-213	0.4
10	Biologically Inspired Components in Embedded Vision Systems. *International Journal of Systems Biology and Biomedical Technologies*, **2015**, 3, 39-72	
9	Enhanced Lips Detection and Tracking System. *Lecture Notes in Computer Science*, **2009**, 254-265	0.9
8	Image Compression Using Stitching with Harris Corner Detector and SPIHT Coding. *Lecture Notes in Computer Science*, **2009**, 653-663	0.9
7	Data Compression Algorithms for Visual Information. *Communications in Computer and Information Science*, **2011**, 484-497	0.3
6	Multiband Curvelet-Based Technique for Audio Visual Recognition over Internet Protocol. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2012**, 132-138	0.2

5 Single-View Information Reduction Techniques for WMSN Using Event Compression **2013**, 159-206

4 Audio Visual System for Large Scale People Authentication and Recognition over Internet Protocol (IP) **2013**, 997-1017

3 Multiscale Discriminant Saliency for Visual Attention. *Lecture Notes in Computer Science*, **2013**, 464-484   0.9

2 Mathematical modeling and mining real-world Big education datasets with application to curriculum mapping. *Mathematical Biosciences and Engineering*, **2021**, 18, 4450-4460   2.1

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