Ling Guan

List of Publications by Year
in descending order

157 papers	2,402 citations	430874 18 h-index	265206 42 g-index
157 all docs	157 docs citations	157 times ranked	2253 citing authors

#	Article	IF	Citations
1	Optimal Scheduling for Charging and Discharging of Electric Vehicles. IEEE Transactions on Smart Grid, 2012, 3, 1095-1105.	9.0	691
2	Recognizing Human Emotional State From Audiovisual Signals*. IEEE Transactions on Multimedia, 2008, 10, 936-946.	7.2	175
3	Kernel Cross-Modal Factor Analysis for Information Fusion With Application to Bimodal Emotion Recognition. IEEE Transactions on Multimedia, 2012, 14, 597-607.	7.2	121
4	Optimal resource allocation for multimedia cloud based on queuing model. , 2011, , .		78
5	Discriminative Multiple Canonical Correlation Analysis for Information Fusion. IEEE Transactions on Image Processing, 2018, 27, 1951-1965.	9.8	69
6	Quantifying and Recognizing Human Movement Patterns From Monocular Video Imagesâ€"Part I: A New Framework for Modeling Human Motion. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 179-190.	8.3	64
7	A neural network approach for human emotion recognition in speech. , 0, , .		57
8	Distributed Algorithms for Network Lifetime Maximization in Wireless Visual Sensor Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 704-718.	8.3	54
9	ECG Heartbeat Classification Using Multimodal Fusion. IEEE Access, 2021, 9, 100615-100626.	4.2	49
10	A Deformable 3-D Facial Expression Model for Dynamic Human Emotional State Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 142-157.	8.3	46
11	A Multi-Stream Graph Convolutional Networks-Hidden Conditional Random Field Model for Skeleton-Based Action Recognition. IEEE Transactions on Multimedia, 2021, 23, 64-76.	7.2	40
12	Optimal resource allocation for multimedia cloud in priority service scheme. , 2012, , .		35
13	Quantifying and Recognizing Human Movement Patterns From Monocular Video Imagesâ€"Part II: Applications to Biometrics. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 191-198.	8.3	34
14	The Labeled Multiple Canonical Correlation Analysis for Information Fusion. IEEE Transactions on Multimedia, 2019, 21, 375-387.	7.2	31
15	Multimodal Learning for Human Action Recognition Via Bimodal/Multimodal Hybrid Centroid Canonical Correlation Analysis. IEEE Transactions on Multimedia, 2019, 21, 1317-1331.	7.2	30
16	Feature extraction of chromosomes from 3-D confocal microscope images. IEEE Transactions on Biomedical Engineering, 2001, 48, 1306-1318.	4.2	26
17	A recursive soft-decision approach to blind image deconvolution. IEEE Transactions on Signal Processing, 2003, 51, 515-526.	5.3	25
18	Multimodal information fusion for selected multimedia applications. International Journal of Multimedia Intelligence and Security, 2010, 1, 5.	0.1	25

#	ARTICLE	IF	CITATIONS
19	Human emotional state recognition using real 3D visual features from Gabor library. Pattern Recognition, 2013, 46, 529-538.	8.1	24
20	Optimal allocation of virtual machines for cloud-based multimedia applications. , 2012, , .		23
21	Resource Allocation Schemes in D2D Communications: Overview, Classification, and Challenges. Wireless Personal Communications, 2017, 96, 303-322.	2.7	23
22	Discriminative Multiple Canonical Correlation Analysis for Multi-feature Information Fusion. , 2012, , .		21
23	A Novel Key-Point Detector Based on Sparse Coding. IEEE Transactions on Image Processing, 2020, 29, 747-756.	9.8	21
24	A Recurrent Neural Network for Detecting Objects in Sequences of Sector-Scan Sonar Images. IEEE Journal of Oceanic Engineering, 2004, 29, 857-871.	3.8	18
25	3D Human Action Recognition Using a Single Depth Feature and Locality-Constrained Affine Subspace Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2920-2932.	8.3	18
26	An investigation of speech-based human emotion recognition. , 0, , .		17
27	Improving the streaming capacity in P2P VoD systems with helpers. , 2009, , .		16
28	Multiview emotion recognition via multi-set locality preserving canonical correlation analysis. , 2016, , .		16
29	Centralized peer-to-peer streaming with layered video. , 2003, , .		15
30	Recognizing Human Emotion from Audiovisual Informaiton. , 0, , .		15
31	Network Lifetime Maximization in Wireless Visual Sensor Networks using a Distributed Algorithm. , 2007, , .		15
32	Multi-Modal Human Action Recognition With Sub-Action Exploiting and Class-Privacy Preserved Collaborative Representation Learning. IEEE Access, 2020, 8, 39920-39933.	4.2	14
33	Deep Reinforcement Learning with Parameterized Action Space for Object Detection. , 2018, , .		13
34	High-strength fiber Bragg gratings for a temperature-sensing array. IEEE Sensors Journal, 2006, 6, 668-671.	4.7	12
35	Solving Streaming Capacity Problems in P2P VoD Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1638-1642.	8.3	12
36	A Visual Evaluation Framework for In-Home Physical Rehabilitation. , 2014, , .		12

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37	The Property of Frequency Shift in 2D-FRFT Domain With Application to Image Encryption. IEEE Signal Processing Letters, 2021, 28, 185-189.	3.6	12
38	Interactive CBIR using RBF-based relevance feedback for WT/VQ coded images. , 0, , .		11
39	Content-based image retrieval with automated relevance feedback over distributed peer-to-peer network. , 0, , .		11
40	Optimized Video Multicasting Over Wireless Ad Hoc Networks Using Distributed Algorithm. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 796-807.	8.3	11
41	Rotation Invariance in 2D-FRFT with Application to Digital Image Watermarking. Journal of Signal Processing Systems, 2013, 72, 133-148.	2.1	11
42	Adaptive video indexing and automatic/semi-automatic relevance feedback. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 1032-1046.	8.3	10
43	Centralized P2P Streaming with MDC. , 2005, , .		10
44	A New Learning Algorithm for the Fusion of Adaptive Audio–Visual Features for the Retrieval and Classification of Movie Clips. Journal of Signal Processing Systems, 2010, 59, 177-188.	2.1	10
45	SN-SVM: a sparse nonparametric support vector machine classifier. Signal, Image and Video Processing, 2014, 8, 1625-1637.	2.7	10
46	Delay–Rate–Distortion Optimization for Cloud Gaming With Hybrid Streaming. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2687-2701.	8.3	10
47	Deep Local Feature Descriptor Learning With Dual Hard Batch Construction. IEEE Transactions on Image Processing, 2020, 29, 9572-9583.	9.8	10
48	Centralized Peer-to-Peer Video Streaming Over Hybrid Wireless Network. , 0, , .		9
49	Recognizing Human Emotional State Based on the 2D-FrFT and FLDA. , 2009, , .		9
50	vDesign: a CAVE-based virtual design environment using hand interactions. Journal on Multimodal User Interfaces, 2014, 8, 367-379.	2.9	9
51	Human action recognition using temporal hierarchical pyramid of depth motion map and KECA. , 2015, , .		9
52	Kernel cross-modal factor analysis for multimodal information fusion. , 2011, , .		8
53	Optimization of workload scheduling for multimedia cloud computing. , 2013, , .		8
54	Improving Action Recognition Using Collaborative Representation of Local Depth Map Feature. IEEE Signal Processing Letters, 2016, 23, 1241-1245.	3.6	8

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55	vConnect: perceive and interact with real world from CAVE. Multimedia Tools and Applications, 2017, 76, 1479-1508.	3.9	8
56	Policy-Gradient and Actor-Critic Based State Representation Learning for Safe Driving of Autonomous Vehicles. Sensors, 2020, 20, 5991.	3.8	8
57	Video coding algorithm using 3-D DCT and vector quantization. , 0, , .		7
58	Online Behavioral Analysis with Application to Emotion State Identification. IEEE Intelligent Systems, 2016, 31, 32-39.	4.0	7
59	Distributed Rate Allocation in P2P Streaming. , 2007, , .		6
60	Optimal task-level scheduling for cloud based multimedia applications. , 2013, , .		6
61	RGB-D camera pose estimation using deep neural network. , 2017, , .		6
62	Information Fusion via Deep Cross-Modal Factor Analysis. , 2019, , .		6
63	A Discriminative Vectorial Framework for Multi-Modal Feature Representation. IEEE Transactions on Multimedia, 2022, 24, 1503-1514.	7.2	6
64	Detection of small man-made objects in sector scan imagery using neural networks. , 0, , .		5
65	Computational Intellegence Techniques and their Applications in Content-Based Image Retrieval. , 2006, , .		5
66	Wavelet-Based Texture Retrieval using Independent Component Analysis. , 2007, , .		5
67	Graph cut video object segmentation using histogram of oriented gradients. , 2008, , .		5
68	Human emotion recognition using a deformable 3D facial expression model. , 2012, , .		5
69	The spatial shift operations on image reconstruction from 2D-FRFT information with application to SAR moving target detection. , 2013, , .		5
70	Human Action Recognition Using Hybrid Centroid Canonical Correlation Analysis. , 2015, , .		5
71	On video based face recognition through adaptive sparse dictionary. , 2015, , .		5
72	Human action recognition via multiview discriminative analysis of canonical correlations. , 2016, , .		5

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73	Information fusion based on kernel entropy component analysis in discriminative canonical correlation space with application to audio emotion recognition. , 2016, , .		5
74	Resource Allocation for Energy Harvesting Assisted D2D Communications Underlaying OFDMA Cellular Networks. , 2017, , .		5
75	Graph Convolutional Networks-Hidden Conditional Random Field Model for Skeleton-Based Action Recognition. , 2019, , .		5
76	Monocular Human Motion Tracking with the DE-MC Particle Filter. , 0, , .		4
77	Optimized multi-path routing using dual decomposition for wireless video streaming. , 2007, , .		4
78	Distributed throughput maximization in hybrid-forwarding P2P VoD applications. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	4
79	Streaming capacity in P2P VoD systems. , 2009, , .		4
80	Prefetching Optimization in P2P VoD Applications. , 2009, , .		4
81	Feature Fusion Applied to Missing Data ASR with the Combination of Recognizers. Journal of Signal Processing Systems, 2010, 58, 359-370.	2.1	4
82	Audiovisual emotion recognition via cross-modal association in kernel space. , 2011, , .		4
83	Generalized MMSD feature extraction using QR decomposition. , 2012, , .		4
84	A Filter Bank Based Approach for Rotation Invariant Fingerprint Recognition. Journal of Signal Processing Systems, 2012, 68, 401-414.	2.1	4
85	VDESIGN: Toward image segmentation and composition in cave using finger interactions. , 2013, , .		4
86	Optimal resource allocation for multimedia application providers in multi-site cloud. , 2013, , .		4
87	3D Action Recognition Using Depth-Based Feature and Locality-Constrained Affine Subspace Coding. , 2016, , .		4
88	Human gesture recognition via bag of angles for 3D virtual city planning in CAVE environment. , 2016, , .		4
89	Human action recognition by fusing deep features with Globality Locality Preserving Canonical Correlation Analysis. , 2017, , .		4
90	Motion energy guided multi-scale heterogeneous features for 3D action recognition. , 2017, , .		4

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91	Statistical Machine Learning vs Deep Learning in Information Fusion: Competition or Collaboration?. , 2018, , .		4
92	Locality Guided Neural Networks for Explainable Artificial Intelligence. , 2020, , .		4
93	Improving Action Recognition via Temporal and Complementary Learning. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-24.	4.5	4
94	A scalable video codec design for streaming over distributed peer-to-peer network. , 0, , .		3
95	Scene change detection using DC coefficients. , 0, , .		3
96	A statistical approach for image feature extraction in the wavelet domain. , 0, , .		3
97	Optimal resource allocation for video communication over distributed systems. , 2009, , .		3
98	Spatio-Temporal Pyramid Model based on depth maps for action recognition. , 2015, , .		3
99	Hybrid Vector Filters based on Marginal Ordering for Impulsive Noise Suppression in Color Images. Journal of Signal Processing Systems, 2017, 89, 379-394.	2.1	3
100	Integrating Entropy Skeleton Motion Maps and Convolutional Neural Networks for Human Action Recognition. , 2018, , .		3
101	Resource allocation in RF energy harvesting–assisted underlay D2D communication. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3589.	3.9	3
102	Interactive content-based image retrieval using Laplacian mixture model in the wavelet domain. , 0, , .		2
103	Blind adaptive detection for CDMA systems based on regularized independent component analysis. , 0, , .		2
104	Tracking human movement patterns using particle filtering. , 2003, , .		2
105	Transformation of Compressed Domain Features for Content-Based Image Indexing and Retrieval. Multimedia Tools and Applications, 2005, 26, 5-26.	3.9	2
106	Missing data ASR with fusion of features and combination of recognizers. , 2006, , .		2
107	Probabilistic prefetching scheme for P2P VoD applications with frequent seeks. , 2008, , .		2
108	Streaming capacity in multi-channel P2P VoD systems. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
109	Improving Streaming Capacity in Multi-Channel P2P VoD Systems via Intra-Channel and Cross-Channel Resource Allocation. International Journal of Digital Multimedia Broadcasting, 2012, 2012, 1-9.	0.6	2
110	vConnect: Connect the real world to the virtual world. , 2014, , .		2
111	Depth-based action recognition using multiscale sub-actions depth motion maps and local auto-correlation of space-time gradients. , 2016, , .		2
112	Bayesian workload scheduling in multimedia cloud networks. , 2016, , .		2
113	Towards a shared large-area mixed reality system. , 2016, , .		2
114	Information Fusion VIA Optimized KECA with Application to Audio Emotion Recognition. , 2018, , .		2
115	A Complete Discriminative Tensor Representation Learning for Two-Dimensional Correlation Analysis. IEEE Signal Processing Letters, 2020, 27, 1894-1898.	3.6	2
116	A Scale and Rotational Invariant Key-point Detector based on Sparse Coding. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-19.	4.5	2
117	Information Fusion via Multimodal Hashing with Discriminant Canonical Correlation Maximization. Lecture Notes in Computer Science, 2019, , 81-93.	1.3	2
118	Automatic similarity learning using SOTM for CBIR of the WT/VQ coded images. , 0, , .		1
119	A fuzzy blur algorithm to adaptive blind image deconvolution. , 0, , .		1
120	Tracking human movement patterns using particle filtering. , 0, , .		1
121	Dynamic feature fusion in the self organising tree map - applied to the segmentation of biofilm images. , 0, , .		1
122	Substream Allocation in Layered P2P Streaming. , 2006, , .		1
123	Content-free image orientation detection using Local Binary Pattern. , 2009, , .		1
124	A multi-agent based automatic Web recommendation model. , 2009, , .		1
125	Optimization of resource reconfiguration for cloud-based multimedia applications. , 2012, , .		1
126	Cloud Computing and Dynamic Resource Allocation for Multimedia Applications. International Journal of Digital Multimedia Broadcasting, 2012, 2012, 1-2.	0.6	1

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127	Towards dynamic resource optimization for cloud-based free viewpoint video service. , 2014, , .		1
128	Information Fusion of Audio Emotion Recognition Based on Kernel Entropy Component Analysis in Canonical Correlation Space. , 2015, , .		1
129	A Novel Discriminative Framework Integrating Kernel Entropy Component Analysis and Discriminative Multiple Canonical Correlation for Information Fusion. , 2016, , .		1
130	Semi-Supervised and Semi-Paired Graph Regularized Multiset Canonical Correlation Analysis. , 2016, , .		1
131	A Discriminant Two-Dimensional Canonical Correlation Analysis. , 2019, , .		1
132	Information Fusion via Multimodal Hashing With Discriminant Correlation Maximization. , 2019, , .		1
133	Local Feature Descriptor Learning with a Dual Hard Sampling Strategy. , 2019, , .		1
134	Discriminative Robust Head-Pose and Gaze Estimation Using Kernel-DMCCA Features Fusion. International Journal of Semantic Computing, 2020, 14, 107-135.	0.5	1
135	A Distinct Discriminant Canonical Correlation Analysis Network based Deep Information Quality Representation for Image Classification. , 2021, , .		1
136	Discriminative Patch Descriptor Learning With Focal Triplet Loss Function. , 2021, , .		1
137	Image Matching Using Enhancement Offsets With Adaptive Parameter Selection Via Histogram Analysis. , 2021, , .		1
138	A Novel Correntropy Analysis Method with Application to Multi-view Feature Representation. , 2021, , .		1
139	Automatic Sparsity-Aware Recognition for Keypoint Detection. , 2020, , .		1
140	A Semi-Handcrafted Keypoint Detector with Discriminative Feature Encoding. , 2022, , .		1
141	A low-complexity contextual Hebbian detector for blind multiuser detection. , 2002, , .		0
142	The Self-Organising Hierarchical Variance Map. , 0, , .		0
143	The Self-Organising Hierarchical Variance Map. , 2006, , .		0
144	Human-Controlled Vs. Semi-automatic Content-Based Image Retrieval. , 2007, , .		0

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145	Combination of Recognizers and Fusion of Features Approach to Missing Data ASR Under Non-Stationary Noise Conditions. , 2007, , .		0
146	Classifying customers using navigational history for developing personalized Web services. , 2010, , .		0
147	Incorporating covariance information in one class support vector classification. , 2013, , .		0
148	Volume visualization using sparse nonparametric support vector machines and harmoniccolors. , 2014, , .		0
149	ImmerVol: An immersive volume visualization system. , 2014, , .		0
150	An improved ICP registration algorithm with a weight-bootstrap scheme. , 2015, , .		0
151	A hybrid metric for camera pose estimation in RGB-D reconstruction. , 2016, , .		0
152	Delay-rate-distortion optimization for cloud-based collaborative rendering. , 2016, , .		0
153	Real-Time System for Human Activity Analysis. , 2017, , .		0
154	Discriminative Feature Selection Guided Deep Canonical Correlation Analysis. , 2019, , .		0
155	Local Feature Descriptors with Deep Hypersphere Learning. , 2021, , .		0
156	A Manifold Semantic Canonical Correlation Framework for Effective Feature Fusion. , 2021, , .		0
157	An Effective Rotational Invariant Key-point Detector for Image Matching. , 2020, , .		0