

Zhiwu Lu

List of Publications by Year in descending order

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72
papers

1,183
citations

516215

16
h-index

500791

28
g-index

74
all docs

74
docs citations

74
times ranked

1037
citing authors

#	ARTICLE	IF	CITATIONS
1	Counterfactual VQA: A Cause-Effect Look at Language Bias. , 2021, , .		148
2	Learning from Weak and Noisy Labels for Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 486-500.	9.7	91
3	Zero-Shot Scene Classification for High Spatial Resolution Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4157-4167.	2.7	60
4	Exhaustive and Efficient Constraint Propagation: A Graph-Based Learning Approach and Its Applications. International Journal of Computer Vision, 2013, 103, 306-325.	10.9	59
5	Multi-Modal Multi-Scale Deep Learning for Large-Scale Image Annotation. IEEE Transactions on Image Processing, 2019, 28, 1720-1731.	6.0	54
6	CMsearch: simultaneous exploration of protein sequence space and structure space improves not only protein homology detection but also protein structure prediction. Bioinformatics, 2016, 32, i332-i340.	1.8	52
7	Towards artificial general intelligence via a multimodal foundation model. Nature Communications, 2022, 13, .	5.8	46
8	Constrained Spectral Clustering via Exhaustive and Efficient Constraint Propagation. Lecture Notes in Computer Science, 2010, , 1-14.	1.0	44
9	Zero and Few Shot Learning With Semantic Feature Synthesis and Competitive Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2510-2523.	9.7	43
10	Domain-Adaptive Few-Shot Learning. , 2021, , .		43
11	Noise-robust semi-supervised learning via fast sparse coding. Pattern Recognition, 2015, 48, 605-612.	5.1	29
12	Image categorization via robust pLSA. Pattern Recognition Letters, 2010, 31, 36-43.	2.6	27
13	Multi-modal constraint propagation for heterogeneous image clustering. , 2011, , .		27
14	HR-NAS: Searching Efficient High-Resolution Neural Architectures with Lightweight Transformers. , 2021, , .		25
15	RUM: Network Representation Learning Using Motifs. , 2019, , .		22
16	Contextual Kernel and Spectral Methods for Learning the Semantics of Images. IEEE Transactions on Image Processing, 2011, 20, 1739-1750.	6.0	21
17	L1-graph construction using structured sparsity. Neurocomputing, 2013, 120, 441-452.	3.5	21
18	Image classification by visual bag-of-words refinement and reduction. Neurocomputing, 2016, 173, 373-384.	3.5	21

#	ARTICLE	IF	CITATIONS
19	Latent semantic learning with structured sparse representation for human action recognition. Pattern Recognition, 2013, 46, 1799-1809.	5.1	19
20	Learning descriptive visual representation for image classification and annotation. Pattern Recognition, 2015, 48, 498-508.	5.1	19
21	Combining Context, Consistency, and Diversity Cues for Interactive Image Categorization. IEEE Transactions on Multimedia, 2010, 12, 194-203.	5.2	18
22	Context-based multi-label image annotation. , 2009, , .		17
23	Learning Depth-Guided Convolutions for Monocular 3D Object Detection. , 2020, , .		17
24	Spatial temporal pyramid matching using temporal sparse representation for human motion retrieval. Visual Computer, 2014, 30, 845-854.	2.5	16
25	Semantic Sparse Recoding of Visual Content for Image Applications. IEEE Transactions on Image Processing, 2015, 24, 176-188.	6.0	16
26	An iterative algorithm for entropy regularized likelihood learning on Gaussian mixture with automatic model selection. Neurocomputing, 2006, 69, 1674-1677.	3.5	14
27	Image annotation by semantic sparse recoding of visual content. , 2012, , .		13
28	A regularized minimum cross-entropy algorithm on mixtures of experts for time series prediction and curve detection. Pattern Recognition Letters, 2006, 27, 947-955.	2.6	12
29	Generalized Competitive Learning of Gaussian Mixture Models. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 901-909.	5.5	12
30	Spatial Markov Kernels for Image Categorization and Annotation. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 976-989.	5.5	12
31	Self-Supervised Video Representation Learning with Constrained Spatiotemporal Jigsaw. , 2021, , .		11
32	Semantic concept annotation based on audio PLSA model. , 2009, , .		10
33	Community Based Spammer Detection in Social Networks. Lecture Notes in Computer Science, 2015, , 554-558.	1.0	10
34	Local similarity learning for pairwise constraint propagation. Multimedia Tools and Applications, 2015, 74, 3739-3758.	2.6	10
35	Transferrable Feature and Projection Learning with Class Hierarchy for Zero-Shot Learning. International Journal of Computer Vision, 2020, 128, 2810-2827.	10.9	10
36	Large-Scale Sparse Learning From Noisy Tags for Semantic Segmentation. IEEE Transactions on Cybernetics, 2018, 48, 253-263.	6.2	9

#	ARTICLE	IF	CITATIONS
37	AdarGCN: Adaptive Aggregation GCN for Few-Shot Learning. , 2021, , .		9
38	Graph-based multimodal semi-supervised image classification. Neurocomputing, 2014, 138, 167-179.	3.5	8
39	Entropy Regularized Likelihood Learning on Gaussian Mixture: Two Gradient Implementations for Automatic Model Selection. Neural Processing Letters, 2006, 25, 17-30.	2.0	7
40	Image categorization with spatial mismatch kernels. , 2009, , .		6
41	Image Categorization Based on a Hierarchical Spatial Markov Model. Lecture Notes in Computer Science, 2009, , 766-773.	1.0	6
42	Generalized Relevance Models for Automatic Image Annotation. Lecture Notes in Computer Science, 2009, , 245-255.	1.0	6
43	Image categorization by learning with context and consistency. , 2009, , .		5
44	Combining multiple clusterings using fast simulated annealing. Pattern Recognition Letters, 2011, 32, 1956-1961.	2.6	5
45	Spectral learning of latent semantics for action recognition. , 2011, , .		5
46	A Semi-supervised Learning Algorithm on Gaussian Mixture with Automatic Model Selection. Neural Processing Letters, 2008, 27, 57-66.	2.0	3
47	Gaussian mixture learning via robust competitive agglomeration. Pattern Recognition Letters, 2010, 31, 539-547.	2.6	3
48	Modalities consensus for multi-modal constraint propagation. , 2012, , .		3
49	Heterogeneous Constraint Propagation with Constrained Sparse Representation. , 2012, , .		3
50	Discriminateness-Preserved Domain Adaptation for Few-Shot Learning. IEEE Access, 2020, 8, 168405-168413.	2.6	3
51	Segmentation with Selectively Propagated Constraints. Lecture Notes in Computer Science, 2016, , 585-592.	1.0	3
52	Text2Poster: Laying Out Stylized Texts on Retrieved Images. , 2022, , .		3
53	Unsupervised learning of finite mixtures using entropy regularization and its application to image segmentation. , 2008, , .		2
54	Action Recognition Based on Learnt Motion Semantic Vocabulary. Lecture Notes in Computer Science, 2010, , 193-202.	1.0	2

#	ARTICLE	IF	CITATIONS
55	Combining latent semantic learning and reduced hypergraph learning for semi-supervised image categorization. , 2011, , .		2
56	Multimodal semi-supervised image classification by combining tag refinement, graph-based learning and support vector regression. , 2013, , .		2
57	Graph-boosted convolutional neural networks for semantic segmentation. , 2017, , .		2
58	Large-Scale Cross-Domain Few-Shot Learning. Lecture Notes in Computer Science, 2021, , 474-491.	1.0	2
59	Unsupervised Image Segmentation Using an Iterative Entropy Regularized Likelihood Learning Algorithm. Lecture Notes in Computer Science, 2006, , 492-497.	1.0	2
60	A Regularized Minimum Cross-entropy Algorithm on Mixture of Experts for Curve Detection. , 0, , .		1
61	View topics. , 2009, , .		1
62	Automatic Image Annotation Based on Generalized Relevance Models. Journal of Signal Processing Systems, 2011, 65, 23-33.	1.4	1
63	Multi-instance dictionary learning via multivariate performance measure optimization. Pattern Recognition, 2017, 66, 448-459.	5.1	1
64	A Generalized Competitive Learning Algorithm on Gaussian Mixture with Automatic Model Selection. Lecture Notes in Computer Science, 2006, , 560-567.	1.0	1
65	An Iterative Entropy Regularized Likelihood Learning Algorithm for Cluster Analysis with the Number of Clusters Automatically Detected. , 0, , .		0
66	Weakly-Supervised Attribute Segmentation. , 2021, , .		0
67	Complex Action Segmentation in Compressed Videos. , 2021, , .		0
68	Asymptotic Convergence Properties of Entropy Regularized Likelihood Learning on Finite Mixtures with Automatic Model Selection. Lecture Notes in Computer Science, 2007, , 986-993.	1.0	0
69	Unsupervised Image Categorization Using Constrained Entropy-Regularized Likelihood Learning with Pairwise Constraints. Lecture Notes in Computer Science, 2007, , 1193-1200.	1.0	0
70	Entropy Regularization, Automatic Model Selection, and Unsupervised Image Segmentation. , 2007, , 173-182.		0
71	Image categorization by learning with context and consistency. , 2009, , .		0
72	Image categorization with spatial mismatch kernels. , 2009, , .		0