Guangming Lu

List of Publications by Year in descending order

71 papers	2,275 citations	331670 21 h-index	233421 45 g-index
72 all docs	72 docs citations	72 times ranked	1089 citing authors

#	Article	IF	Citations
1	An Online System of Multispectral Palmprint Verification. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 480-490.	4.7	355
2	DS-TransUNet: Dual Swin Transformer U-Net for Medical Image Segmentation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	4.7	173
3	Feature Extraction Methods for Palmprint Recognition: A Survey and Evaluation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 346-363.	9.3	143
4	Palmprint Recognition Using 3-D Information. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 505-519.	2.9	136
5	DRPL: Deep Regression Pair Learning for Multi-Focus Image Fusion. IEEE Transactions on Image Processing, 2020, 29, 4816-4831.	9.8	112
6	Online joint palmprint and palmvein verification. Expert Systems With Applications, 2011, 38, 2621-2631.	7.6	111
7	Low-Rank Tensor Graph Learning for Multi-View Subspace Clustering. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 92-104.	8.3	80
8	Label Co-Occurrence Learning With Graph Convolutional Networks for Multi-Label Chest X-Ray Image Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2292-2302.	6.3	76
9	Generative multi-view and multi-feature learning for classification. Information Fusion, 2019, 45, 215-226.	19.1	63
10	DualCheXNet: dual asymmetric feature learning for thoracic disease classification in chest X-rays. Biomedical Signal Processing and Control, 2019, 53, 101554.	5.7	59
11	3-D Palmprint Recognition With Joint Line and Orientation Features. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 274-279.	2.9	58
12	Efficient joint 2D and 3D palmprint matching with alignment refinement. , 2010, , .		54
13	A survey of crowd counting and density estimation based on convolutional neural network. Neurocomputing, 2022, 472, 224-251.	5.9	45
14	Facial Expression Recognition in the Wild Using Multi-Level Features and Attention Mechanisms. IEEE Transactions on Affective Computing, 2023, 14, 451-462.	8.3	44
15	Super Sparse Convolutional Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 4440-4447.	4.9	42
16	A Novel 3-D Palmprint Acquisition System. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 443-452.	2.9	41
17	Lesion Location Attention Guided Network for Multi-Label Thoracic Disease Classification in Chest X-Rays. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2016-2027.	6.3	38
18	Inductive Structure Consistent Hashing via Flexible Semantic Calibration. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4514-4528.	11.3	35

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19	Three Dimensional Palmprint Recognition using Structured Light Imaging. , 2008, , .		25
20	Facial expression recognition using optimized active regions. Human-centric Computing and Information Sciences, 2018, 8, .	6.1	25
21	Multi-Label Chest X-Ray Image Classification via Semantic Similarity Graph Embedding. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2455-2468.	8.3	25
22	Prototype-supervised Adversarial Network for Targeted Attack of Deep Hashing. , 2021, , .		25
23	High resolution fingerprint recognition using pore and edge descriptors. Pattern Recognition Letters, 2019, 125, 773-779.	4.2	24
24	A Novel Multicamera System for High-Speed Touchless Palm Recognition. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1534-1548.	9.3	24
25	Complete Binary Representation for 3-D Palmprint Recognition. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2761-2771.	4.7	23
26	Two-stream collaborative network for multi-label chest X-ray Image classification with lung segmentation. Pattern Recognition Letters, 2020, 135, 221-227.	4.2	23
27	Deep-Masking Generative Network: A Unified Framework for Background Restoration From Superimposed Images. IEEE Transactions on Image Processing, 2021, 30, 4867-4882.	9.8	23
28	Learning Informative and Discriminative Features for Facial Expression Recognition in the Wild. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3178-3189.	8.3	23
29	Multi-View Speech Emotion Recognition Via Collective Relation Construction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 218-229.	5.8	23
30	SRGC-Nets: Sparse Repeated Group Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2889-2902.	11.3	22
31	Asymmetric Gaussian Process multi-view learning for visual classification. Information Fusion, 2021, 65, 108-118.	19.1	20
32	Self-Supervised Exclusive-Inclusive Interactive Learning for Multi-Label Facial Expression Recognition in the Wild. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3190-3202.	8.3	20
33	Layer-Output Guided Complementary Attention Learning for Image Defocus Blur Detection. IEEE Transactions on Image Processing, 2021, 30, 3748-3763.	9.8	18
34	Multimodal Emotion Recognition With Temporal and Semantic Consistency. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3592-3603.	5.8	18
35	Fingerprint Pore Comparison Using Local Features and Spatial Relations. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2927-2940.	8.3	17
36	Semantic-Interactive Graph Convolutional Network for Multilabel Image Recognition. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4887-4899.	9.3	17

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37	CompNet: Competitive Neural Network for Palmprint Recognition Using Learnable Gabor Kernels. IEEE Signal Processing Letters, 2021, 28, 1739-1743.	3.6	17
38	Dual Asymmetric Deep Hashing Learning. IEEE Access, 2019, 7, 113372-113384.	4.2	14
39	Similarity and diversity induced paired projection for cross-modal retrieval. Information Sciences, 2020, 539, 215-228.	6.9	13
40	Shared Linear Encoder-Based Multikernel Gaussian Process Latent Variable Model for Visual Classification. IEEE Transactions on Cybernetics, 2021, 51, 534-547.	9.5	13
41	Printed label defect detection using twice gradient matching based on improved cosine similarity measure. Expert Systems With Applications, 2022, 204, 117372.	7.6	10
42	A Novel Line-Scan Palmprint Acquisition System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1481-1491.	9.3	9
43	CNN-based High-Resolution Fingerprint Image Enhancement for Pore Detection and Matching. , 2019, , .		9
44	Innovative Contactless Palmprint Recognition System Based on Dual-Camera Alignment. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6464-6476.	9.3	9
45	Door Knob Hand Recognition System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2870-2881.	9.3	8
46	A New Technique for Diagnosis of Dental Caries on the Childrenâ€™s First Permanent Molar. IEEE Access, 2020, 8, 185776-185785.	4.2	8
47	Multiscale Conditional Regularization for Convolutional Neural Networks. IEEE Transactions on Cybernetics, 2022, 52, 444-458.	9.5	8
48	Push for Center Learning via Orthogonalization and Subspace Masking for Person Re-Identification. IEEE Transactions on Image Processing, 2021, 30, 907-920.	9.8	8
49	Generative Memory-Guided Semantic Reasoning Model for Image Inpainting. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7432-7447.	8.3	8
50	Fully shared convolutional neural networks. Neural Computing and Applications, 2021, 33, 8635-8648.	5.6	7
51	Multiscale feature fusion for surveillance video diagnosis. Knowledge-Based Systems, 2022, 240, 108103.	7.1	7
52	Relaxed Asymmetric Deep Hashing Learning: Point-to-Angle Matching. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4791-4805.	11.3	6
53	High-parameter-efficiency convolutional neural networks. Neural Computing and Applications, 2020, 32, 10633-10644.	5.6	6
54	Targeted Attack of Deep Hashing Via Prototype-Supervised Adversarial Networks. IEEE Transactions on Multimedia, 2022, 24, 3392-3404.	7.2	5

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55	Shared Linear Encoder-based Gaussian Process Latent Variable Model for Visual Classification. , 2018, , .		5
56	Multi-Modal Emotion Recognition with Self-Guided Modality Calibration. , 2022, , .		5
57	Pedestrian Detection by Exemplar-Guided Contrastive Learning. IEEE Transactions on Image Processing, 2023, 32, 2003-2016.	9.8	5
58	Fast pore matching method based on deterministic annealing algorithm. IET Image Processing, 2017, 11, 1034-1040.	2.5	4
59	Visual Classification With Multikernel Shared Gaussian Process Latent Variable Model. IEEE Transactions on Cybernetics, 2019, 49, 2886-2899.	9.5	4
60	AAR-CNNs: Auto Adaptive Regularized Convolutional Neural Networks. , 2018, , .		4
61	Stepwise-Refining Speech Separation Network via Fine-Grained Encoding in High-Order Latent Domain. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 378-393.	5.8	4
62	Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5721-5731.	9.3	3
63	Addi-Reg: A Better Generalization-Optimization Tradeoff Regularization Method for Convolutional Neural Networks. IEEE Transactions on Cybernetics, 2022, 52, 10827-10842.	9.5	3
64	Harmonization Shared Autoencoder Gaussian Process Latent Variable Model With Relaxed Hamming Distance. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5093-5107.	11.3	2
65	Efficient Method for High-Resolution Fingerprint Image Enhancement Using Deep Residual Network. , 2020, , .		2
66	High Resolution Fingerprint Retrieval Based on Pore Indexing and Graph Comparison. IEEE Transactions on Information Forensics and Security, 2022, 17, 226-236.	6.9	2
67	Hierarchical Pore-Based High-Resolution Fingerprint Indexing. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	2
68	Discriminative Visual Similarity Search with Semantically Cycle-consistent Hashing Networks. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-21.	4.3	2
69	Multi-label Chest X-Ray Image Classification via Label Co-occurrence Learning. Lecture Notes in Computer Science, 2019, , 682-693.	1.3	1
70	Towards Discriminative Visual Search via Semantically Cycle-consistent Hashing Networks. , 2021, , .		1
71	An Embarrassingly Simple Approach to Discrete Supervised Hashing. , 2021, , .		1