Guojun Lu

List of Publications by Year
in descending order

145 papers	6,827 citations	257450 24 h-index	123424 61 g-index
146 all docs	146 docs citations	146 times ranked	4417 citing authors

#	Article	IF	Citations
1	Integrated generalized zero-shot learning for fine-grained classification. Pattern Recognition, 2022, 122, 108246.	8.1	14
2	Bidirectional Mapping Coupled GAN for Generalized Zero-Shot Learning. IEEE Transactions on Image Processing, 2022, 31, 721-733.	9.8	4
3	Few-Shot Image Classification: Current Status and Research Trends. Electronics (Switzerland), 2022, 11, 1752.	3.1	10
4	Adversarial Network With Multiple Classifiers for Open Set Domain Adaptation. IEEE Transactions on Multimedia, 2021, 23, 2732-2744.	7.2	42
5	A novel fusion approach in the extraction of kernel descriptor with improved effectiveness and efficiency. Multimedia Tools and Applications, 2021, 80, 14545-14564.	3.9	1
6	Robust Image Classification Using a Low-Pass Activation Function and DCT Augmentation. IEEE Access, 2021, 9, 86460-86474.	4.2	7
7	Siamese network for object tracking with multi-granularity appearance representations. Pattern Recognition, 2021, 118, 108003.	8.1	8
8	Distortion Robust Image Classification Using Deep Convolutional Neural Network with Discrete Cosine Transform. , 2019, , .		16
9	A Rotation Invariant HOG Descriptor for Tire Pattern Image Classification. , 2019, , .		6
10	Reversible Data Hiding in Encrypted Images Based on Image Partition and Spatial Correlation. Lecture Notes in Computer Science, 2019, , 180-194.	1.3	0
11	Enhanced Transfer Learning with ImageNet Trained Classification Layer. Lecture Notes in Computer Science, 2019, , 142-155.	1.3	15
12	BackNet: An Enhanced Backbone Network for Accurate Detection of Objects with Large Scale Variations. Lecture Notes in Computer Science, 2019, , 52-64.	1.3	0
13	Enhancing image registration performance by incorporating distribution and spatial distance of local descriptors. Pattern Recognition Letters, 2018, 103, 46-52.	4.2	7
14	COREG: a corner based registration technique for multimodal images. Multimedia Tools and Applications, 2018, 77, 12607-12634.	3.9	9
15	A detector of structural similarity for multi-modal microscopic image registration. Multimedia Tools and Applications, 2018, 77, 7675-7701.	3.9	2
16	Segmentation of Airborne Point Cloud Data for Automatic Building Roof Extraction. GIScience and Remote Sensing, 2018, 55, 63-89.	5.9	47
17	A Novel Perceptual Dissimilarity Measure for Image Retrieval. , 2018, , .		4
18	A Kernel-Based Approach for Content-Based Image Retrieval. , 2018, , .		3

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19	Image Clustering Using a Similarity Measure Incorporating Human Perception. , 2018, , .		0
20	An Attention-Based Approach for Single Image Super Resolution. , 2018, , .		31
21	Enhanced Colour Image Retrieval with Cuboid Segmentation. , 2018, , .		8
22	Classifier-Free Extraction of Power Line Wires from Point Cloud Data. , 2018, , .		2
23	Enhancing the Effectiveness of Local Descriptor Based Image Matching. , 2018, , .		0
24	Improved Tamura Features for Image Classification Using Kernel Based Descriptors. , 2017, , .		13
25	Reversible data hiding based on directional prediction and multiple histograms modification. , 2017, , .		5
26	A Hybrid Data Dependent Dissimilarity Measure for Image Retrieval. , 2017, , .		0
27	Cuboid Segmentation for Effective Image Retrieval. , 2017, , .		15
28	Improved Kernel Descriptors for Effective and Efficient Image Classification. , 2017, , .		2
29	A Robust Gradient Based Method for Building Extraction from LiDAR and Photogrammetric Imagery. Sensors, 2016, 16, 1110.	3.8	22
30	An Automatic Building Extraction and Regularisation Technique Using LiDAR Point Cloud Data and Orthoimage. Remote Sensing, 2016, 8, 258.	4.0	78
31	A New Building Mask Using the Gradient of Heights for Automatic Building Extraction. , 2016, , .		0
32	Combining Pyramid Match Kernel and Spatial Pyramid for Image Classification. , 2016, , .		1
33	Robust building roof segmentation using airborne point cloud data. , 2016, , .		12
34	Enhancing SIFT-based image registration performance by building and selecting highly discriminating descriptors. Pattern Recognition Letters, 2016, 84, 156-162.	4.2	26
35	Rotation Invariant Spatial Pyramid Matching for Image Classification. , 2015, , .		5
36	Extracting road centrelines from binary road images by optimizing geodesic lines. , 2015, , .		0

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37	A triangulation-based technique for building boundary identification from point cloud data. , 2015, , .		0
38	Multimodal image registration technique based on improved local feature descriptors. Journal of Electronic Imaging, 2015, 24, 013013.	0.9	21
39	Effective and efficient contour-based corner detectors. Pattern Recognition, 2015, 48, 2185-2197.	8.1	50
40	Automatic Extraction of Buildings in an Urban Region. , 2014, , .		0
41	A Novel Multi-Modal Image Registration Method Based on Corners. , 2014, , .		4
42	Automatic segmentation of LiDAR point cloud data at different height levels for 3D building extraction. , 2014, , .		8
43	Automatic Building Footprint Extraction and Regularisation from LIDAR Point Cloud Data. , 2014, , .		5
44	Structural image retrieval using automatic image annotation and region based inverted file. Journal of Visual Communication and Image Representation, 2013, 24, 1087-1098.	2.8	23
45	Efficient nonlinear classification via low-rank regularised least squares. Neural Computing and Applications, 2013, 22, 1279-1289.	5.6	0
46	Learning Sparse Kernel Classifiers for Multi-Instance Classification. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1377-1389.	11.3	11
47	A Performance Review of Recent Corner Detectors. , 2013, , .		2
48	An improved building detection in complex sites using the LIDAR height variation and point density. , 2013, , .		2
49	Building Roof Plane Extraction from LIDAR Data. , 2013, , .		1
50	Detection of Structural Similarity for Multimodal Microscopic Image Registration. , 2013, , .		1
51	Maximizing structural similarity in multimodal biomedical microscopic images for effective registration. , 2013, , .		1
52	An effective method of estimating scale-invariant interest region for representing corner features. , 2012, , .		0
53	Performance Comparisons of Contour-Based Corner Detectors. IEEE Transactions on Image Processing, 2012, 21, 4167-4179.	9.8	70
54	Achieving High Multi-Modal Registration Performance Using Simplified Hough-Transform with Improved Symmetric-SIFT. , 2012, , .		7

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55	Comparison of Curvelet and Wavelet Texture Features for Content Based Image Retrieval. , 2012, , .		16
56	Rotation Invariant Curvelet Features for Region Based Image Retrieval. International Journal of Computer Vision, 2012, 98, 187-201.	15.6	102
57	A review on automatic image annotation techniques. Pattern Recognition, 2012, 45, 346-362.	8.1	384
58	A Class Centric Feature and Classifier Ensemble Selection Approach for Music Genre Classification. Lecture Notes in Computer Science, 2012, , 666-674.	1.3	0
59	Learning Sparse Kernel Classifiers in the Primal. Lecture Notes in Computer Science, 2012, , 60-69.	1.3	0
60	Improved Symmetric-SIFT for Multi-modal Image Registration. , 2011, , .		28
61	A Survey of Audio-Based Music Classification and Annotation. IEEE Transactions on Multimedia, 2011, 13, 303-319.	7.2	313
62	Music classification via the bag-of-features approach. Pattern Recognition Letters, 2011, 32, 1768-1777.	4.2	27
63	Texture classification using multimodal Invariant Local Binary Pattern. , 2011, , .		8
64	Improved Spatial Pyramid Matching for Image Classification. Lecture Notes in Computer Science, 2011, , 449-459.	1.3	5
65	Building Sparse Support Vector Machines for Multi-Instance Classification. Lecture Notes in Computer Science, 2011, , 471-486.	1.3	2
66	On Low-Rank Regularized Least Squares for Scalable Nonlinear Classification. Lecture Notes in Computer Science, 2011, , 490-499.	1.3	2
67	Spectral shape descriptor using spherical harmonics. Integrated Computer-Aided Engineering, 2010, 17, 167-173.	4.6	4
68	An Enhancement to SIFT-Based Techniques for Image Registration. , 2010, , .		7
69	Image registration using modified Local Ternary Pattern. , 2010, , .		0
70	Learning Naive Bayes Classifiers for Music Classification and Retrieval. , 2010, , .		18
71	Region Based Color Image Retrieval Using Curvelet Transform. Lecture Notes in Computer Science, 2010, , 448-457.	1.3	7
72	A Comparative Study on Contour-Based Corner Detectors. , 2010, , .		7

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73	An Enhancement to Closed-Form Method for Natural Image Matting. , 2010, , .		2
74	On Feature Combination for Music Classification. Lecture Notes in Computer Science, 2010, , 453-462.	1.3	10
75	Novel Spectral Descriptor for Object Shape. Lecture Notes in Computer Science, 2010, , 58-67.	1.3	0
76	Techniques for efficient and effective transformed image identification. Journal of Visual Communication and Image Representation, 2009, 20, 511-520.	2.8	10
77	Spherical Harmonics and Distance Transform for Image Representation and Retrieval. Lecture Notes in Computer Science, 2009, , 309-316.	1.3	5
78	Rotation invariant curvelet features for texture image retrieval. , 2009, , .		11
79	A Fast Corner Detector Based on the Chord-to-Point Distance Accumulation Technique. , 2009, , .		40
80	Enhanced polyphonic music genre classification using high level features. , 2009, , .		1
81	Semantic Image Retrieval Using Region Based Inverted File. , 2009, , .		15
82	Region-based image retrieval with high-level semantics using decision tree learning. Pattern Recognition, 2008, 41, 2554-2570.	8.1	118
83	Corners-Based Composite Descriptor for Shapes. , 2008, , .		1
84	Robust Image Corner Detection Based on the Chord-to-Point Distance Accumulation Technique. IEEE Transactions on Multimedia, 2008, 10, 1059-1072.	7.2	130
85	Content based image retrieval using curvelet transform. , 2008, , .		98
86	An Improved Curvature Scale-Space Corner Detector and a Robust Corner Matching Approach for Transformed Image Identification. IEEE Transactions on Image Processing, 2008, 17, 2425-2441.	9.8	60
87	Efficient and effective transformed image identification. , 2008, , .		4
88	Image retrieval based on semantics of intra-region color properties. , 2008, , .		1
89	A geometric method to compute directionality features for texture images. , 2008, , .		18
90	A robust content-based watermarking technique. , 2008, , .		4

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91	Music emotion annotation by machine learning. , 2008, , .		1
92	Automatic Categorization of Image Regions Using Dominant Color Based Vector Quantization. , 2008, , .		13
93	A Robust Corner Matching Technique. , 2007, , .		9
94	An Affine Resilient Curvature Scale-Space Corner Detector. , 2007, , .		23
95	Comparison of retrieval effectiveness of different region based image representations. , 2007, , .		2
96	A Composite Descriptor for Shape Retrieval. , 2007, , .		7
97	Image indexing and retrieval based on vector quantization. Pattern Recognition, 2007, 40, 3299-3316.	8.1	22
98	A survey of content-based image retrieval with high-level semantics. Pattern Recognition, 2007, 40, 262-282.	8.1	1,347
99	SIEVEâ€"Search Images Effectively Through Visual Elimination. , 2007, , 381-390.		3
100	Effective Corner Matching for Transformed Image Identification. , 2007, , 765-774.		0
101	Global Geometric Distortion Correction in Images. , 2006, , .		10
102	Integrating Semantic Templates with Decision Tree for Image Semantic Learning. Lecture Notes in Computer Science, 2006, , 185-195.	1.3	3
103	Study and evaluation of different Fourier methods for image retrieval. Image and Vision Computing, 2005, 23, 33-49.	4.5	198
104	A New Approach to Texture Retrieval. , 2005, , .		0
105	Review of shape representation and description techniques. Pattern Recognition, 2004, 37, 1-19.	8.1	1,512
106	Region-Based Image Retrieval with Perceptual Colors. Lecture Notes in Computer Science, 2004, , 931-938.	1.3	21
107	Evaluation of MPEG-7 shape descriptors against other shape descriptors. Multimedia Systems, 2003, 9, 15-30.	4.7	110
108	A comparative study of curvature scale space and Fourier descriptors for shape-based image retrieval. Journal of Visual Communication and Image Representation, 2003, 14, 39-57.	2.8	194

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109	Evaluation of similarity measurement for image retrieval. , 2003, , .		60
110	Techniques and data structures for efficient multimedia retrieval based on similarity. IEEE Transactions on Multimedia, 2002, 4, 372-384.	7.2	51
111	Effects of Codebook Sizes, Codeword Dimensions, and Colour Spaces on Retrieval Performance of Image Retrieval Using Vector Quantization. Lecture Notes in Computer Science, 2002, , 217-228.	1.3	2
112	Enhanced Generic Fourier Descriptors for object-based image retrieval. , 2002, , .		28
113	Shape-based image retrieval using generic Fourier descriptor. Signal Processing: Image Communication, 2002, 17, 825-848.	3.2	412
114	A Comparison of Shape Retrieval Using Fourier Descriptors and Short-Time Fourier Descriptors. Lecture Notes in Computer Science, 2001, , 855-860.	1.3	22
115	Segmentation of moving objects in image sequence: A review. Circuits, Systems, and Signal Processing, 2001, 20, 143-183.	2.0	103
116	Indexing and Retrieval of Audio: A Survey. Multimedia Tools and Applications, 2001, 15, 269-290.	3.9	43
117	An effective World Wide Web image search engine. Journal of Information Science, 2001, 27, 27-37.	3.3	2
118	Content-based shape retrieval using different shape descriptors: a comparative study. , 2001, , .		59
119	An Evaluation of the Robustness of Image Retrieval Based on Vector Quantization. Lecture Notes in Computer Science, 2001, , 474-481.	1.3	2
120	Issues and technologies for supporting multimedia communications over the Internet. Computer Communications, 2000, 23, 1323-1335.	5.1	25
121	Region-based shape representation and similarity measure suitable for content-based image retrieval. Multimedia Systems, 1999, 7, 165-174.	4.7	145
122	Design issues of multimedia information indexing and retrieval systems. Journal of Network and Computer Applications, 1999, 22, 175-198.	9.1	2
123	An efficient communication scheme for media on-demand services with hard QoS guarantees. Journal of Network and Computer Applications, 1998, 21, 1-15.	9.1	2
124	An approach to image retrieval based on shape. Journal of Information Science, 1997, 23, 119-127.	3.3	22
125	<title>Indexing 2D nonoccluded shapes for similarity retrieval</title>. , 1997, , .		4
126	Applications of Partitioned Iterated Function Systems in Image and Video Compression. Journal of Visual Communication and Image Representation, 1996, 7, 144-154.	2.8	6

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127	\<title\>Image retrieval based on color\</title\>. , 1996, , .		5
128	A neural network construction algorithm with application to image compression. Neural Computing and Applications, 1994, 2, 61-68.	5.6	5
129	Temporal synchronization support for distributed multimedia information systems. Computer Communications, 1994, 17, 852-862.	5.1	7
130	Advances in digital image compression techniques. Computer Communications, 1993, 16, 202-214.	5.1	11
131	Fractal image compression. Signal Processing: Image Communication, 1993, 5, 327-343.	3.2	37
132	Improving retrieval performance of Zernike moment descriptor on affined shapes. , 0, , .		7
133	Generic Fourier descriptor for shape-based image retrieval. , 0, , .		87
134	Comparison of retrieval effectiveness of colour-based techniques on MPEG-7 common colour dataset. , 0, , .		1
135	DAFHEA: a dynamic approximate fitness-based hybrid EA for optimisation problems. , 0, , .		9
136	Spatial statistics for content based image retrieval. , 0, , .		15
137	Effects of different Gabor filters parameters on image retrieval by texture. , 0, , .		51
138	Multi-Scale Analysis of Connectivity for Image Retrieval. , 0, , .		0
139	Region-Based Image Retrieval with High-Level Semantic Color Names. , 0, , .		23
140	Performance Study of Gabor Filters and Rotation Invariant Gabor Filters. , 0, , .		10
141	Improved Perceptual Tempo Detection of Music. , 0, , .		5
142	Browsing Texture Image Databases. , 0, , .		0
143	Deriving High-Level Concepts Using Fuzzy-ID3 Decision Tree for Image Retrieval. , 0, , .		3
144	Spherical Harmonics Descriptor for 2D-Image Retrieval. , 0, , .		5

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145	Online dual dictionary learning for visual object tracking. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	2