

Guojun Lu

List of Publications by Year in descending order

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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	Review of shape representation and description techniques. Pattern Recognition, 2004, 37, 1-19.	8.1	1,512
2	A survey of content-based image retrieval with high-level semantics. Pattern Recognition, 2007, 40, 262-282.	8.1	1,347
3	Shape-based image retrieval using generic Fourier descriptor. Signal Processing: Image Communication, 2002, 17, 825-848.	3.2	412
4	A review on automatic image annotation techniques. Pattern Recognition, 2012, 45, 346-362.	8.1	384
5	A Survey of Audio-Based Music Classification and Annotation. IEEE Transactions on Multimedia, 2011, 13, 303-319.	7.2	313
6	Study and evaluation of different Fourier methods for image retrieval. Image and Vision Computing, 2005, 23, 33-49.	4.5	198
7	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
8	Region-based shape representation and similarity measure suitable for content-based image retrieval. Multimedia Systems, 1999, 7, 165-174.	4.7	145
9	Robust Image Corner Detection Based on the Chord-to-Point Distance Accumulation Technique. IEEE Transactions on Multimedia, 2008, 10, 1059-1072.	7.2	130
10	Region-based image retrieval with high-level semantics using decision tree learning. Pattern Recognition, 2008, 41, 2554-2570.	8.1	118
11	Evaluation of MPEG-7 shape descriptors against other shape descriptors. Multimedia Systems, 2003, 9, 15-30.	4.7	110
12	Segmentation of moving objects in image sequence: A review. Circuits, Systems, and Signal Processing, 2001, 20, 143-183.	2.0	103
13	Rotation Invariant Curvelet Features for Region Based Image Retrieval. International Journal of Computer Vision, 2012, 98, 187-201.	15.6	102
14	Content based image retrieval using curvelet transform. , 2008, , .		98
15	Generic Fourier descriptor for shape-based image retrieval. , 0, , .		87
16	An Automatic Building Extraction and Regularisation Technique Using LiDAR Point Cloud Data and Orthoimage. Remote Sensing, 2016, 8, 258.	4.0	78
17	Performance Comparisons of Contour-Based Corner Detectors. IEEE Transactions on Image Processing, 2012, 21, 4167-4179.	9.8	70
18	Evaluation of similarity measurement for image retrieval. , 2003, , .		60

#	ARTICLE	IF	CITATIONS
19	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
20	Content-based shape retrieval using different shape descriptors: a comparative study. , 2001, , .		59
21	Techniques and data structures for efficient multimedia retrieval based on similarity. IEEE Transactions on Multimedia, 2002, 4, 372-384.	7.2	51
22	Effects of different Gabor filters parameters on image retrieval by texture. , 0, , .		51
23	Effective and efficient contour-based corner detectors. Pattern Recognition, 2015, 48, 2185-2197.	8.1	50
24	Segmentation of Airborne Point Cloud Data for Automatic Building Roof Extraction. GIScience and Remote Sensing, 2018, 55, 63-89.	5.9	47
25	Indexing and Retrieval of Audio: A Survey. Multimedia Tools and Applications, 2001, 15, 269-290.	3.9	43
26	Adversarial Network With Multiple Classifiers for Open Set Domain Adaptation. IEEE Transactions on Multimedia, 2021, 23, 2732-2744.	7.2	42
27	A Fast Corner Detector Based on the Chord-to-Point Distance Accumulation Technique. , 2009, , .		40
28	Fractal image compression. Signal Processing: Image Communication, 1993, 5, 327-343.	3.2	37
29	An Attention-Based Approach for Single Image Super Resolution. , 2018, , .		31
30	Enhanced Generic Fourier Descriptors for object-based image retrieval. , 2002, , .		28
31	Improved Symmetric-SIFT for Multi-modal Image Registration. , 2011, , .		28
32	Music classification via the bag-of-features approach. Pattern Recognition Letters, 2011, 32, 1768-1777.	4.2	27
33	Enhancing SIFT-based image registration performance by building and selecting highly discriminating descriptors. Pattern Recognition Letters, 2016, 84, 156-162.	4.2	26
34	Issues and technologies for supporting multimedia communications over the Internet. Computer Communications, 2000, 23, 1323-1335.	5.1	25
35	Region-Based Image Retrieval with High-Level Semantic Color Names. , 0, , .		23
36	An Affine Resilient Curvature Scale-Space Corner Detector. , 2007, , .		23

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37	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
38	An approach to image retrieval based on shape. Journal of Information Science, 1997, 23, 119-127.	3.3	22
39	A Comparison of Shape Retrieval Using Fourier Descriptors and Short-Time Fourier Descriptors. Lecture Notes in Computer Science, 2001, , 855-860.	1.3	22
40	Image indexing and retrieval based on vector quantization. Pattern Recognition, 2007, 40, 3299-3316.	8.1	22
41	A Robust Gradient Based Method for Building Extraction from LiDAR and Photogrammetric Imagery. Sensors, 2016, 16, 1110.	3.8	22
42	Region-Based Image Retrieval with Perceptual Colors. Lecture Notes in Computer Science, 2004, , 931-938.	1.3	21
43	Multimodal image registration technique based on improved local feature descriptors. Journal of Electronic Imaging, 2015, 24, 013013.	0.9	21
44	A geometric method to compute directionality features for texture images. , 2008, , .		18
45	Learning Naive Bayes Classifiers for Music Classification and Retrieval. , 2010, , .		18
46	Comparison of Curvelet and Wavelet Texture Features for Content Based Image Retrieval. , 2012, , .		16
47	Distortion Robust Image Classification Using Deep Convolutional Neural Network with Discrete Cosine Transform. , 2019, , .		16
48	Spatial statistics for content based image retrieval. , 0, , .		15
49	Semantic Image Retrieval Using Region Based Inverted File. , 2009, , .		15
50	Cuboid Segmentation for Effective Image Retrieval. , 2017, , .		15
51	Enhanced Transfer Learning with ImageNet Trained Classification Layer. Lecture Notes in Computer Science, 2019, , 142-155.	1.3	15
52	Integrated generalized zero-shot learning for fine-grained classification. Pattern Recognition, 2022, 122, 108246.	8.1	14
53	Automatic Categorization of Image Regions Using Dominant Color Based Vector Quantization. , 2008, , .		13
54	Improved Tamura Features for Image Classification Using Kernel Based Descriptors. , 2017, , .		13

#	ARTICLE	IF	CITATIONS
55	Robust building roof segmentation using airborne point cloud data. , 2016, , .		12
56	Advances in digital image compression techniques. Computer Communications, 1993, 16, 202-214.	5.1	11
57	Rotation invariant curvelet features for texture image retrieval. , 2009, , .		11
58	Learning Sparse Kernel Classifiers for Multi-Instance Classification. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1377-1389.	11.3	11
59	Performance Study of Gabor Filters and Rotation Invariant Gabor Filters. , 0, , .		10
60	Global Geometric Distortion Correction in Images. , 2006, , .		10
61	Techniques for efficient and effective transformed image identification. Journal of Visual Communication and Image Representation, 2009, 20, 511-520.	2.8	10
62	On Feature Combination for Music Classification. Lecture Notes in Computer Science, 2010, , 453-462.	1.3	10
63	Few-Shot Image Classification: Current Status and Research Trends. Electronics (Switzerland), 2022, 11, 1752.	3.1	10
64	DAFHEA: a dynamic approximate fitness-based hybrid EA for optimisation problems. , 0, , .		9
65	A Robust Corner Matching Technique. , 2007, , .		9
66	COREG: a corner based registration technique for multimodal images. Multimedia Tools and Applications, 2018, 77, 12607-12634.	3.9	9
67	Texture classification using multimodal Invariant Local Binary Pattern. , 2011, , .		8
68	Automatic segmentation of LiDAR point cloud data at different height levels for 3D building extraction. , 2014, , .		8
69	Enhanced Colour Image Retrieval with Cuboid Segmentation. , 2018, , .		8
70	Siamese network for object tracking with multi-granularity appearance representations. Pattern Recognition, 2021, 118, 108003.	8.1	8
71	Temporal synchronization support for distributed multimedia information systems. Computer Communications, 1994, 17, 852-862.	5.1	7
72	Improving retrieval performance of Zernike moment descriptor on affined shapes. , 0, , .		7

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73	A Composite Descriptor for Shape Retrieval. , 2007, , .		7
74	An Enhancement to SIFT-Based Techniques for Image Registration. , 2010, , .		7
75	Region Based Color Image Retrieval Using Curvelet Transform. Lecture Notes in Computer Science, 2010, , 448-457.	1.3	7
76	A Comparative Study on Contour-Based Corner Detectors. , 2010, , .		7
77	Achieving High Multi-Modal Registration Performance Using Simplified Hough-Transform with Improved Symmetric-SIFT. , 2012, , .		7
78	Enhancing image registration performance by incorporating distribution and spatial distance of local descriptors. Pattern Recognition Letters, 2018, 103, 46-52.	4.2	7
79	Robust Image Classification Using a Low-Pass Activation Function and DCT Augmentation. IEEE Access, 2021, 9, 86460-86474.	4.2	7
80	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
81	A Rotation Invariant HOG Descriptor for Tire Pattern Image Classification. , 2019, , .		6
82	A neural network construction algorithm with application to image compression. Neural Computing and Applications, 1994, 2, 61-68.	5.6	5
83	Improved Perceptual Tempo Detection of Music. , 0, , .		5
84	Spherical Harmonics Descriptor for 2D-Image Retrieval. , 0, , .		5
85	Spherical Harmonics and Distance Transform for Image Representation and Retrieval. Lecture Notes in Computer Science, 2009, , 309-316.	1.3	5
86	Automatic Building Footprint Extraction and Regularisation from LIDAR Point Cloud Data. , 2014, , .		5
87	Rotation Invariant Spatial Pyramid Matching for Image Classification. , 2015, , .		5
88	Reversible data hiding based on directional prediction and multiple histograms modification. , 2017, , .		5
89	Improved Spatial Pyramid Matching for Image Classification. Lecture Notes in Computer Science, 2011, , 449-459.	1.3	5
90	<title>Image retrieval based on color</title>. , 1996, , .		5

#	ARTICLE	IF	CITATIONS
91	<title>Indexing 2D nonoccluded shapes for similarity retrieval</title> . , 1997, , .		4
92	Efficient and effective transformed image identification. , 2008, , .		4
93	A robust content-based watermarking technique. , 2008, , .		4
94	Spectral shape descriptor using spherical harmonics. Integrated Computer-Aided Engineering, 2010, 17, 167-173.	4.6	4
95	A Novel Multi-Modal Image Registration Method Based on Corners. , 2014, , .		4
96	A Novel Perceptual Dissimilarity Measure for Image Retrieval. , 2018, , .		4
97	Bidirectional Mapping Coupled GAN for Generalized Zero-Shot Learning. IEEE Transactions on Image Processing, 2022, 31, 721-733.	9.8	4
98	Deriving High-Level Concepts Using Fuzzy-ID3 Decision Tree for Image Retrieval. , 0, , .		3
99	A Kernel-Based Approach for Content-Based Image Retrieval. , 2018, , .		3
100	Integrating Semantic Templates with Decision Tree for Image Semantic Learning. Lecture Notes in Computer Science, 2006, , 185-195.	1.3	3
101	SIEVE“Search Images Effectively Through Visual Elimination. , 2007, , 381-390.		3
102	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
103	Design issues of multimedia information indexing and retrieval systems. Journal of Network and Computer Applications, 1999, 22, 175-198.	9.1	2
104	An effective World Wide Web image search engine. Journal of Information Science, 2001, 27, 27-37.	3.3	2
105	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
106	Comparison of retrieval effectiveness of different region based image representations. , 2007, , .		2
107	An Enhancement to Closed-Form Method for Natural Image Matting. , 2010, , .		2
108	A Performance Review of Recent Corner Detectors. , 2013, , .		2

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109	An improved building detection in complex sites using the LIDAR height variation and point density. , 2013, , .		2
110	Improved Kernel Descriptors for Effective and Efficient Image Classification. , 2017, , .		2
111	A detector of structural similarity for multi-modal microscopic image registration. Multimedia Tools and Applications, 2018, 77, 7675-7701.	3.9	2
112	Classifier-Free Extraction of Power Line Wires from Point Cloud Data. , 2018, , .		2
113	Online dual dictionary learning for visual object tracking. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	2
114	An Evaluation of the Robustness of Image Retrieval Based on Vector Quantization. Lecture Notes in Computer Science, 2001, , 474-481.	1.3	2
115	Building Sparse Support Vector Machines for Multi-Instance Classification. Lecture Notes in Computer Science, 2011, , 471-486.	1.3	2
116	On Low-Rank Regularized Least Squares for Scalable Nonlinear Classification. Lecture Notes in Computer Science, 2011, , 490-499.	1.3	2
117	Comparison of retrieval effectiveness of colour-based techniques on MPEG-7 common colour dataset. , 0, , .		1
118	Corners-Based Composite Descriptor for Shapes. , 2008, , .		1
119	Image retrieval based on semantics of intra-region color properties. , 2008, , .		1
120	Music emotion annotation by machine learning. , 2008, , .		1
121	Enhanced polyphonic music genre classification using high level features. , 2009, , .		1
122	Building Roof Plane Extraction from LIDAR Data. , 2013, , .		1
123	Detection of Structural Similarity for Multimodal Microscopic Image Registration. , 2013, , .		1
124	Maximizing structural similarity in multimodal biomedical microscopic images for effective registration. , 2013, , .		1
125	Combining Pyramid Match Kernel and Spatial Pyramid for Image Classification. , 2016, , .		1
126	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

#	ARTICLE	IF	CITATIONS
127	Multi-Scale Analysis of Connectivity for Image Retrieval. , 0, , .		0
128	Browsing Texture Image Databases. , 0, , .		0
129	A New Approach to Texture Retrieval. , 2005, , .		0
130	Image registration using modified Local Ternary Pattern. , 2010, , .		0
131	An effective method of estimating scale-invariant interest region for representing corner features. , 2012, , .		0
132	Efficient nonlinear classification via low-rank regularised least squares. Neural Computing and Applications, 2013, 22, 1279-1289.	5.6	0
133	Automatic Extraction of Buildings in an Urban Region. , 2014, , .		0
134	Extracting road centrelines from binary road images by optimizing geodesic lines. , 2015, , .		0
135	A triangulation-based technique for building boundary identification from point cloud data. , 2015, , .		0
136	A New Building Mask Using the Gradient of Heights for Automatic Building Extraction. , 2016, , .		0
137	A Hybrid Data Dependent Dissimilarity Measure for Image Retrieval. , 2017, , .		0
138	Image Clustering Using a Similarity Measure Incorporating Human Perception. , 2018, , .		0
139	Enhancing the Effectiveness of Local Descriptor Based Image Matching. , 2018, , .		0
140	Reversible Data Hiding in Encrypted Images Based on Image Partition and Spatial Correlation. Lecture Notes in Computer Science, 2019, , 180-194.	1.3	0
141	Novel Spectral Descriptor for Object Shape. Lecture Notes in Computer Science, 2010, , 58-67.	1.3	0
142	A Class Centric Feature and Classifier Ensemble Selection Approach for Music Genre Classification. Lecture Notes in Computer Science, 2012, , 666-674.	1.3	0
143	Learning Sparse Kernel Classifiers in the Primal. Lecture Notes in Computer Science, 2012, , 60-69.	1.3	0
144	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

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145	Effective Corner Matching for Transformed Image Identification. , 2007, , 765-774.		0