

# Xiang Bai

## List of Publications by Year in descending order

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Version: 2024-02-01

122  
papers

16,925  
citations

38660

50  
h-index

48187

88  
g-index

125  
all docs

125  
docs citations

125  
times ranked

7965  
citing authors

#	ARTICLE	IF	CITATIONS
1	An End-to-End Trainable Neural Network for Image-Based Sequence Recognition and Its Application to Scene Text Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2298-2304.	9.7	1,726
2	DOTA: A Large-Scale Dataset for Object Detection in Aerial Images. , 2018, , .		1,294
3	AID: A Benchmark Data Set for Performance Evaluation of Aerial Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3965-3981.	2.7	1,291
4	TextBoxes++: A Single-Shot Oriented Scene Text Detector. IEEE Transactions on Image Processing, 2018, 27, 3676-3690.	6.0	583
5	Detecting Oriented Text in Natural Images by Linking Segments. , 2017, , .		509
6	ASTER: An Attentional Scene Text Recognizer with Flexible Rectification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2035-2048.	9.7	432
7	Richer Convolutional Features for Edge Detection. , 2017, , .		427
8	Gliding Vertex on the Horizontal Bounding Box for Multi-Oriented Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1452-1459.	9.7	415
9	Multi-oriented Text Detection with Fully Convolutional Networks. , 2016, , .		408
10	Robust Scene Text Recognition with Automatic Rectification. , 2016, , .		405
11	Real-Time Scene Text Detection with Differentiable Binarization. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 11474-11481.	3.6	379
12	Skeleton Pruning by Contour Partitioning with Discrete Curve Evolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 449-462.	9.7	357
13	Rotation-Sensitive Regression for Oriented Scene Text Detection. , 2018, , .		348
14	DeepPano: Deep Panoramic Representation for 3-D Shape Recognition. IEEE Signal Processing Letters, 2015, 22, 2339-2343.	2.1	300
15	Scene text detection and recognition: recent advances and future trends. Frontiers of Computer Science, 2016, 10, 19-36.	1.6	298
16	Path Similarity Skeleton Graph Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1282-1292.	9.7	277
17	Multi-oriented Scene Text Detection via Corner Localization and Region Segmentation. , 2018, , .		263
18	A Unified Framework for Multioriented Text Detection and Recognition. IEEE Transactions on Image Processing, 2014, 23, 4737-4749.	6.0	260

#	ARTICLE	IF	CITATIONS
19	Mask TextSpotter: An End-to-End Trainable Neural Network for Spotting Text with Arbitrary Shapes. Lecture Notes in Computer Science, 2018, , 71-88.	1.0	241
20	TextField: Learning a Deep Direction Field for Irregular Scene Text Detection. IEEE Transactions on Image Processing, 2019, 28, 5566-5579.	6.0	222
21	Progressive Pose Attention Transfer for Person Image Generation. , 2019, , .		220
22	PCL: Proposal Cluster Learning for Weakly Supervised Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 176-191.	9.7	217
23	Symmetry-based text line detection in natural scenes. , 2015, , .		216
24	Learning Context-Sensitive Shape Similarity by Graph Transduction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 861-874.	9.7	211
25	TANet: Robust 3D Object Detection from Point Clouds with Triple Attention. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 11677-11684.	3.6	203
26	Strokelets: A Learned Multi-scale Representation for Scene Text Recognition. , 2014, , .		200
27	Shape matching and classification using height functions. Pattern Recognition Letters, 2012, 33, 134-143.	2.6	191
28	Traffic sign detection and recognition using fully convolutional network guided proposals. Neurocomputing, 2016, 214, 758-766.	3.5	185
29	GIFT: A Real-Time and Scalable 3D Shape Search Engine. , 2016, , .		168
30	Deep-Person: Learning discriminative deep features for person Re-Identification. Pattern Recognition, 2020, 98, 107036.	5.1	151
31	Object Detection in Aerial Images: A Large-Scale Benchmark and Challenges. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7778-7796.	9.7	148
32	Bag of contour fragments for robust shape classification. Pattern Recognition, 2014, 47, 2116-2125.	5.1	140
33	Scene Text Recognition from Two-Dimensional Perspective. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8714-8721.	3.6	139
34	Mask TextSpotter: An End-to-End Trainable Neural Network for Spotting Text with Arbitrary Shapes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 532-548.	9.7	136
35	Learning Temporal and Spatial Correlations Jointly: A Unified Framework for Wind Speed Prediction. IEEE Transactions on Sustainable Energy, 2020, 11, 509-523.	5.9	133
36	Sparse Contextual Activation for Efficient Visual Re-Ranking. IEEE Transactions on Image Processing, 2016, 25, 1056-1069.	6.0	125

#	ARTICLE	IF	CITATIONS
37	TransCrowd: weakly-supervised crowd counting with transformers. Science China Information Sciences, 2022, 65, 1.	2.7	109
38	ICDAR2017 Competition on Reading Chinese Text in the Wild (RCTW-17). , 2017, , .		108
39	DeepContour: A deep convolutional feature learned by positive-sharing loss for contour detection. , 2015, , .		102
40	SegLink++: Detecting Dense and Arbitrary-shaped Scene Text by Instance-aware Component Grouping. Pattern Recognition, 2019, 96, 106954.	5.1	101
41	Script identification in the wild via discriminative convolutional neural network. Pattern Recognition, 2016, 52, 448-458.	5.1	100
42	Symmetry-Constrained Rectification Network for Scene Text Recognition. , 2019, , .		99
43	Shape Vocabulary: A Robust and Efficient Shape Representation for Shape Matching. IEEE Transactions on Image Processing, 2014, 23, 3935-3949.	6.0	91
44	Co-Transduction for Shape Retrieval. IEEE Transactions on Image Processing, 2012, 21, 2747-2757.	6.0	89
45	Mask TextSpotter v3: Segmentation Proposal Network for Robust Scene Text Spotting. Lecture Notes in Computer Science, 2020, , 706-722.	1.0	89
46	Learn to Scale: Generating Multipolar Normalized Density Maps for Crowd Counting. , 2019, , .		86
47	Image stitching by line-guided local warping with global similarity constraint. Pattern Recognition, 2018, 83, 481-497.	5.1	85
48	Skeleton growing and pruning with bending potential ratio. Pattern Recognition, 2011, 44, 196-209.	5.1	82
49	All You Need Is Boundary: Toward Arbitrary-Shaped Text Spotting. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 12160-12167.	3.6	82
50	Text/non-text image classification in the wild with convolutional neural networks. Pattern Recognition, 2017, 66, 437-446.	5.1	80
51	Action recognition for depth video using multi-view dynamic images. Information Sciences, 2019, 480, 287-304.	4.0	80
52	Strokelets: A Learned Multi-Scale Mid-Level Representation for Scene Text Recognition. IEEE Transactions on Image Processing, 2016, 25, 2789-2802.	6.0	78
53	MASTER: Multi-aspect non-local network for scene text recognition. Pattern Recognition, 2021, 117, 107980.	5.1	75
54	Similarity Fusion for Visual Tracking. International Journal of Computer Vision, 2016, 118, 337-363.	10.9	74

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55	DeepSkeleton: Learning Multi-Task Scale-Associated Deep Side Outputs for Object Skeleton Extraction in Natural Images. IEEE Transactions on Image Processing, 2017, 26, 5298-5311.	6.0	74
56	3D Shape Matching via Two Layer Coding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2361-2373.	9.7	73
57	Detection and recognition of contour parts based on shape similarity. Pattern Recognition, 2008, 41, 2189-2199.	5.1	72
58	Integrating contour and skeleton for shape classification. , 2009, , .		72
59	Vehicle Color Recognition With Spatial Pyramid Deep Learning. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2925-2934.	4.7	72
60	Object Skeleton Extraction in Natural Images by Fusing Scale-Associated Deep Side Outputs. , 2016, , .		70
61	Learning context-sensitive similarity by shortest path propagation. Pattern Recognition, 2011, 44, 2367-2374.	5.1	67
62	GIFT: Towards Scalable 3D Shape Retrieval. IEEE Transactions on Multimedia, 2017, 19, 1257-1271.	5.2	66
63	PRA-Net: Point Relation-Aware Network for 3D Point Cloud Analysis. IEEE Transactions on Image Processing, 2021, 30, 4436-4448.	6.0	63
64	Editing Text in the Wild. , 2019, , .		59
65	Deep patch learning for weakly supervised object classification and discovery. Pattern Recognition, 2017, 71, 446-459.	5.1	58
66	Learning Sparse and Identity-Preserved Hidden Attributes for Person Re-Identification. IEEE Transactions on Image Processing, 2020, 29, 2013-2025.	6.0	58
67	Feature context for image classification and object detection. , 2011, , .		57
68	Deep learning for predicting COVID-19 malignant progression. Medical Image Analysis, 2021, 72, 102096.	7.0	55
69	Scene Text Image Super-Resolution in the Wild. Lecture Notes in Computer Science, 2020, , 650-666.	1.0	54
70	Integrating Scene Text and Visual Appearance for Fine-Grained Image Classification. IEEE Access, 2018, 6, 66322-66335.	2.6	52
71	Image Caption Generation with Part of Speech Guidance. Pattern Recognition Letters, 2019, 119, 229-237.	2.6	51
72	Regularized Diffusion Process on Bidirectional Context for Object Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1213-1226.	9.7	51

#	ARTICLE	IF	CITATIONS
73	MOST: A Multi-Oriented Scene Text Detector with Localization Refinement. , 2021, , .		47
74	AutoScale: Learning to Scale for Crowd Counting. International Journal of Computer Vision, 2022, 130, 405-434.	10.9	47
75	Multiple instance subspace learning via partial random projection tree for local reflection symmetry in natural images. Pattern Recognition, 2016, 52, 306-316.	5.1	43
76	Affinity Space Adaptation for Semantic Segmentation Across Domains. IEEE Transactions on Image Processing, 2021, 30, 2549-2561.	6.0	41
77	Deep FisherNet for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2244-2250.	7.2	39
78	Automatic script identification in the wild. , 2015, , .		37
79	A Deep End-to-End Model for Transient Stability Assessment With PMU Data. IEEE Access, 2018, 6, 65474-65487.	2.6	36
80	VD-SAN: Visual-Densely Semantic Attention Network for Image Caption Generation. Neurocomputing, 2019, 328, 48-55.	3.5	36
81	Beyond diffusion process: Neighbor set similarity for fast re-ranking. Information Sciences, 2015, 325, 342-354.	4.0	34
82	Deep sketch feature for cross-domain image retrieval. Neurocomputing, 2016, 207, 387-397.	3.5	34
83	View N-Gram Network for 3D Object Retrieval. , 2019, , .		33
84	DeepFlux for Skeletons in the Wild. , 2019, , .		32
85	Shape clustering: Common structure discovery. Pattern Recognition, 2013, 46, 539-550.	5.1	28
86	Anisotropic-Scale Junction Detection and Matching for Indoor Images. IEEE Transactions on Image Processing, 2018, 27, 78-91.	6.0	27
87	AutoSTR: Efficient Backbone Search for Scene Text Recognition. Lecture Notes in Computer Science, 2020, , 751-767.	1.0	25
88	Automatic discrimination of text and non-text natural images. , 2015, , .		23
89	Neural shape codes for 3D model retrieval. Pattern Recognition Letters, 2015, 65, 15-21.	2.6	22
90	SynthText3D: synthesizing scene text images from 3D virtual worlds. Science China Information Sciences, 2020, 63, 1.	2.7	22

#	ARTICLE	IF	CITATIONS
91	Scene Text Retrieval via Joint Text Detection and Similarity Learning. , 2021, , .		22
92	Rotation-Invariant Features for Multi-Oriented Text Detection in Natural Images. PLoS ONE, 2013, 8, e70173.	1.1	21
93	Few-Shot Text Style Transfer via Deep Feature Similarity. IEEE Transactions on Image Processing, 2020, 29, 6932-6946.	6.0	21
94	Automatic Ensemble Diffusion for 3D Shape and Image Retrieval. IEEE Transactions on Image Processing, 2019, 28, 88-101.	6.0	19
95	ONLINE MULTIPLE TARGETS DETECTION AND TRACKING FROM MOBILE ROBOT IN CLUTTERED INDOOR ENVIRONMENTS WITH DEPTH CAMERA. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1455001.	0.7	17
96	Patch Aggregator for Scene Text Script Identification. , 2019, , .		17
97	Smart Electronic Nose Enabled by an All-Feature Olfactory Algorithm. Advanced Intelligent Systems, 2022, 4, .	3.3	17
98	An Improved Multi-View Convolutional Neural Network for 3D Object Retrieval. IEEE Transactions on Image Processing, 2020, 29, 7917-7930.	6.0	15
99	Multiple Stage Residual Model for Image Classification and Vector Compression. IEEE Transactions on Multimedia, 2016, 18, 1351-1362.	5.2	14
100	Super-BPD: Super Boundary-to-Pixel Direction for Fast Image Segmentation. , 2020, , .		14
101	Shape Classification Using Tree -Unions. , 2010, , .		13
102	Texture Characterization Using Shape Co-Occurrence Patterns. IEEE Transactions on Image Processing, 2017, 26, 5005-5018.	6.0	12
103	Contour Grouping Based on Local Symmetry. , 2007, , .		11
104	Fusing Image and Segmentation Cues for Skeleton Extraction in the Wild. , 2017, , .		11
105	Improving context-sensitive similarity via smooth neighborhood for object retrieval. Pattern Recognition, 2018, 83, 353-364.	5.1	11
106	Feature context learning for human parsing. Science China Information Sciences, 2019, 62, 1.	2.7	11
107	VisDrone-CC2021: The Vision Meets Drone Crowd Counting Challenge Results. , 2021, , .		11
108	Cell Localization and Counting Using Direction Field Map. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 359-368.	3.9	10

#	ARTICLE	IF	CITATIONS
109	Deep learning for scene text detection and recognition. Scientia Sinica Informationis, 2018, 48, 531-544.	0.2	10
110	DeepFlux for Skeleton Detection in the Wild. International Journal of Computer Vision, 2021, 129, 1323-1339.	10.9	8
111	Shape Recognition by Combining Contour and Skeleton into a Mid-Level Representation. Communications in Computer and Information Science, 2014, , 391-400.	0.4	7
112	VisDrone-CC2020: The Vision Meets Drone Crowd Counting Challenge Results. Lecture Notes in Computer Science, 2020, , 675-691.	1.0	7
113	Video Text Tracking With a Spatio-Temporal Complementary Model. IEEE Transactions on Image Processing, 2021, 30, 9321-9331.	6.0	7
114	Cost-Effective Adversarial Attacks against Scene Text Recognition. , 2021, , .		6
115	Scene Text Detection with Scribble Line. Lecture Notes in Computer Science, 2021, , 79-94.	1.0	6
116	Co-spectral for robust shape clustering. Pattern Recognition Letters, 2016, 83, 388-394.	2.6	3
117	Directional Edge Boxes: Exploiting Inner Normal Direction Cues for Effective Object Proposal Generation. Journal of Computer Science and Technology, 2017, 32, 701-713.	0.9	3
118	Comprehensive benchmark datasets for Amharic scene text detection and recognition. Science China Information Sciences, 2022, 65, 1.	2.7	3
119	Aggregating contour fragments for shape classification. , 2014, , .		2
120	Maximum Entropy Regularization and Chinese Text Recognition. Lecture Notes in Computer Science, 2020, , 3-17.	1.0	2
121	Symmetry-based object proposal for text detection. , 2016, , .		1
122	Skeletonization in natural images and its application to object recognition. , 2017, , 259-285.		0