

# Xiang Bai

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121 papers	9,511 citations	50 h-index	97 g-index
125 ext. papers	12,887 ext. citations	6.3 avg, IF	7.05 L-index

#	Paper	IF	Citations
121	AutoScale: Learning to Scale for Crowd Counting. <i>International Journal of Computer Vision</i> , <b>2022</b> , 130, 405	10.6	10
120	TransCrowd: weakly-supervised crowd counting with transformers. <i>Science China Information Sciences</i> , <b>2022</b> , 65, 1	3.4	7
119	Video Text Tracking With a Spatio-Temporal Complementary Model. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 9321-9331	8.7	1
118	VisDrone-CC2021: The Vision Meets Drone Crowd Counting Challenge Results <b>2021</b> ,		4
117	Scene Text Retrieval via Joint Text Detection and Similarity Learning <b>2021</b> ,		4
116	<b>2021</b> ,		8
115	Object Detection in Aerial Images: A Large-Scale Benchmark and Challenges. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , PP,	13.3	34
114	Gliding Vertex on the Horizontal Bounding Box for Multi-Oriented Object Detection. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , 43, 1452-1459	13.3	150
113	Affinity Space Adaptation for Semantic Segmentation Across Domains. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 2549-2561	8.7	17
112	Mask TextSpotter: An End-to-End Trainable Neural Network for Spotting Text with Arbitrary Shapes. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , 43, 532-548	13.3	72
111	Cost-Effective Adversarial Attacks against Scene Text Recognition <b>2021</b> ,		3
110	PRA-Net: Point Relation-Aware Network for 3D Point Cloud Analysis. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 4436-4448	8.7	9
109	Scene Text Detection with Scribble Line. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 79-94	0.9	2
108	Deep learning for predicting COVID-19 malignant progression. <i>Medical Image Analysis</i> , <b>2021</b> , 72, 102096	15.4	16
107	MASTER: Multi-aspect non-local network for scene text recognition. <i>Pattern Recognition</i> , <b>2021</b> , 117, 107980	9.0	19
106	DeepFlux for Skeleton Detection in the Wild. <i>International Journal of Computer Vision</i> , <b>2021</b> , 129, 1323-1335	13.3	1
105	Cell Localization and Counting Using Direction Field Map. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , PP,	7.2	3

104	SynthText3D: synthesizing scene text images from 3D virtual worlds. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	11
103	Few-Shot Text Style Transfer via Deep Feature Similarity. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 6932-6946	8.7	5
102	All You Need Is Boundary: Toward Arbitrary-Shaped Text Spotting. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 12160-12167	5	33
101	Maximum Entropy Regularization and Chinese Text Recognition. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 3-17	0.9	
100	VisDrone-CC2020: The Vision Meets Drone Crowd Counting Challenge Results. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 675-691	0.9	5
99	AutoSTR: Efficient Backbone Search for Scene Text Recognition. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 751-767	0.9	15
98	Scene Text Image Super-Resolution in the Wild. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 650-666	0.9	13
97	Mask TextSpotter v3: Segmentation Proposal Network for Robust Scene Text Spotting. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 706-722	0.9	24
96	Learning Sparse and Identity-Preserved Hidden Attributes for Person Re-Identification. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 2013-2025	8.7	39
95	Real-Time Scene Text Detection with Differentiable Binarization. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 11474-11481	5	110
94	An Improved Multi-View Convolutional Neural Network for 3D Object Retrieval. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 7917-7930	8.7	5
93	TANet: Robust 3D Object Detection from Point Clouds with Triple Attention. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2020</b> , 34, 11677-11684	5	53
92	Super-BPD: Super Boundary-to-Pixel Direction for Fast Image Segmentation <b>2020</b> ,		3
91	PCL: Proposal Cluster Learning for Weakly Supervised Object Detection. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 176-191	13.3	106
90	Learning Temporal and Spatial Correlations Jointly: A Unified Framework for Wind Speed Prediction. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 509-523	8.2	52
89	Deep-Person: Learning discriminative deep features for person Re-Identification. <i>Pattern Recognition</i> , <b>2020</b> , 98, 107036	7.7	86
88	Action recognition for depth video using multi-view dynamic images. <i>Information Sciences</i> , <b>2019</b> , 480, 287-304	7.7	44
87	TextField: Learning a Deep Direction Field for Irregular Scene Text Detection. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> , 28, 5566-5579	8.7	120

86	Automatic Ensemble Diffusion for 3D Shape and Image Retrieval. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> , 28, 88-101	8.7	13
85	ASTER: An Attentional Scene Text Recognizer with Flexible Rectification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2019</b> , 41, 2035-2048	13.3	189
84	VD-SAN: Visual-Densely Semantic Attention Network for Image Caption Generation. <i>Neurocomputing</i> , <b>2019</b> , 328, 48-55	5.4	19
83	SegLink++: Detecting Dense and Arbitrary-shaped Scene Text by Instance-aware Component Grouping. <i>Pattern Recognition</i> , <b>2019</b> , 96, 106954	7.7	39
82	Editing Text in the Wild <b>2019</b> ,		25
81	Learn to Scale: Generating Multipolar Normalized Density Maps for Crowd Counting <b>2019</b> ,		48
80	Patch Aggregator for Scene Text Script Identification <b>2019</b> ,		8
79	View N-Gram Network for 3D Object Retrieval <b>2019</b> ,		17
78	Symmetry-Constrained Rectification Network for Scene Text Recognition <b>2019</b> ,		56
77	Progressive Pose Attention Transfer for Person Image Generation <b>2019</b> ,		94
76	DeepFlux for Skeletons in the Wild <b>2019</b> ,		11
75	Scene Text Recognition from Two-Dimensional Perspective. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 8714-8721	5	72
74	Feature context learning for human parsing. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	6
73	Deep FisherNet for Image Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 2244-2250	10.3	27
72	Image Caption Generation with Part of Speech Guidance. <i>Pattern Recognition Letters</i> , <b>2019</b> , 119, 229-237	4.7	31
71	Regularized Diffusion Process on Bidirectional Context for Object Retrieval. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2019</b> , 41, 1213-1226	13.3	28
70	TextBoxes++: A Single-Shot Oriented Scene Text Detector. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 3676-3690	8.7	337
69	Anisotropic-Scale Junction Detection and Matching for Indoor Images. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 78-91	8.7	23

68	Improving context-sensitive similarity via smooth neighborhood for object retrieval. <i>Pattern Recognition</i> , <b>2018</b> , 83, 353-364	7.7	10
67	Deep learning for scene text detection and recognition. <i>Scientia Sinica Informationis</i> , <b>2018</b> , 48, 531-544	2.3	5
66	Integrating Scene Text and Visual Appearance for Fine-Grained Image Classification. <i>IEEE Access</i> , <b>2018</b> , 6, 66322-66335	3.5	33
65	DOTA: A Large-Scale Dataset for Object Detection in Aerial Images <b>2018</b> ,		556
64	<b>2018</b> ,		194
63	Multi-oriented Scene Text Detection via Corner Localization and Region Segmentation <b>2018</b> ,		161
62	A Deep End-to-End Model for Transient Stability Assessment With PMU Data. <i>IEEE Access</i> , <b>2018</b> , 6, 65474-65482	3.5	22
61	Mask TextSpotter: An End-to-End Trainable Neural Network for Spotting Text with Arbitrary Shapes. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 71-88	0.9	112
60	Image stitching by line-guided local warping with global similarity constraint. <i>Pattern Recognition</i> , <b>2018</b> , 83, 481-497	7.7	63
59	. <i>IEEE Transactions on Multimedia</i> , <b>2017</b> , 19, 1257-1271	6.6	55
58	AID: A Benchmark Data Set for Performance Evaluation of Aerial Scene Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2017</b> , 55, 3965-3981	8.1	739
57	Deep patch learning for weakly supervised object classification and discovery. <i>Pattern Recognition</i> , <b>2017</b> , 71, 446-459	7.7	45
56	An End-to-End Trainable Neural Network for Image-Based Sequence Recognition and Its Application to Scene Text Recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2017</b> , 39, 2298-2304	13.3	911
55	Text/non-text image classification in the wild with convolutional neural networks. <i>Pattern Recognition</i> , <b>2017</b> , 66, 437-446	7.7	67
54	Skeletonization in natural images and its application to object recognition <b>2017</b> , 259-285		
53	DeepSkeleton: Learning Multi-Task Scale-Associated Deep Side Outputs for Object Skeleton Extraction in Natural Images. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 5298-5311	8.7	51
52	Directional Edge Boxes: Exploiting Inner Normal Direction Cues for Effective Object Proposal Generation. <i>Journal of Computer Science and Technology</i> , <b>2017</b> , 32, 701-713	1.7	3
51	Texture Characterization Using Shape Co-Occurrence Patterns. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 5005-5018	8.7	10

50	Richer Convolutional Features for Edge Detection <b>2017</b> ,		253
49	ICDAR2017 Competition on Reading Chinese Text in the Wild (RCTW-17) <b>2017</b> ,		69
48	Detecting Oriented Text in Natural Images by Linking Segments <b>2017</b> ,		296
47	Fusing Image and Segmentation Cues for Skeleton Extraction in the Wild <b>2017</b> ,		5
46	Scene text detection and recognition: recent advances and future trends. <i>Frontiers of Computer Science</i> , <b>2016</b> , 10, 19-36	2.2	210
45	Co-spectral for robust shape clustering. <i>Pattern Recognition Letters</i> , <b>2016</b> , 83, 388-394	4.7	3
44	Traffic sign detection and recognition using fully convolutional network guided proposals. <i>Neurocomputing</i> , <b>2016</b> , 214, 758-766	5.4	113
43	Multiple instance subspace learning via partial random projection tree for local reflection symmetry in natural images. <i>Pattern Recognition</i> , <b>2016</b> , 52, 306-316	7.7	37
42	Similarity Fusion for Visual Tracking. <i>International Journal of Computer Vision</i> , <b>2016</b> , 118, 337-363	10.6	55
41	Script identification in the wild via discriminative convolutional neural network. <i>Pattern Recognition</i> , <b>2016</b> , 52, 448-458	7.7	81
40	Sparse Contextual Activation for Efficient Visual Re-Ranking. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 1056-69	8.7	95
39	Multi-oriented Text Detection with Fully Convolutional Networks <b>2016</b> ,		282
38	Robust Scene Text Recognition with Automatic Rectification <b>2016</b> ,		235
37	GIFT: A Real-Time and Scalable 3D Shape Search Engine <b>2016</b> ,		131
36	Object Skeleton Extraction in Natural Images by Fusing Scale-Associated Deep Side Outputs <b>2016</b> ,		48
35	Symmetry-based object proposal for text detection <b>2016</b> ,		1
34	Deep sketch feature for cross-domain image retrieval. <i>Neurocomputing</i> , <b>2016</b> , 207, 387-397	5.4	26
33	. <i>IEEE Transactions on Multimedia</i> , <b>2016</b> , 18, 1351-1362	6.6	10

32	Strokelets: A Learned Multi-Scale Mid-Level Representation for Scene Text Recognition. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 2789-2802	8.7	63
31	Beyond diffusion process: Neighbor set similarity for fast re-ranking. <i>Information Sciences</i> , <b>2015</b> , 325, 342-354	7.7	27
30	Neural shape codes for 3D model retrieval. <i>Pattern Recognition Letters</i> , <b>2015</b> , 65, 15-21	4.7	22
29	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 2925-2934	6.1	41
28	3D Shape Matching via Two Layer Coding. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2015</b> , 37, 2361-73	13.3	62
27	DeepPano: Deep Panoramic Representation for 3-D Shape Recognition. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 2339-2343	3.2	222
26	Symmetry-based text line detection in natural scenes <b>2015</b> ,		154
25	Automatic script identification in the wild <b>2015</b> ,		25
24	DeepContour: A deep convolutional feature learned by positive-sharing loss for contour detection <b>2015</b> ,		40
23	Automatic discrimination of text and non-text natural images <b>2015</b> ,		15
22	A unified framework for multioriented text detection and recognition. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 4737-49	8.7	170
21	Shape vocabulary: a robust and efficient shape representation for shape matching. <i>IEEE Transactions on Image Processing</i> , <b>2014</b> , 23, 3935-49	8.7	69
20	Bag of contour fragments for robust shape classification. <i>Pattern Recognition</i> , <b>2014</b> , 47, 2116-2125	7.7	104
19	ONLINE MULTIPLE TARGETS DETECTION AND TRACKING FROM MOBILE ROBOT IN CLUTTERED INDOOR ENVIRONMENTS WITH DEPTH CAMERA. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2014</b> , 28, 1455001	1.1	12
18	Strokelets: A Learned Multi-scale Representation for Scene Text Recognition <b>2014</b> ,		139
17	Shape Recognition by Combining Contour and Skeleton into a Mid-Level Representation. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 391-400	0.3	4
16	Shape clustering: Common structure discovery. <i>Pattern Recognition</i> , <b>2013</b> , 46, 539-550	7.7	24
15	Rotation-invariant features for multi-oriented text detection in natural images. <i>PLoS ONE</i> , <b>2013</b> , 8, e70137	3.7	18

14	Shape matching and classification using height functions. <i>Pattern Recognition Letters</i> , <b>2012</b> , 33, 134-143	4.7	138
13	Co-transduction for shape retrieval. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 2747-57	8.7	77
12	Skeleton growing and pruning with bending potential ratio. <i>Pattern Recognition</i> , <b>2011</b> , 44, 196-209	7.7	63
11	Learning context-sensitive similarity by shortest path propagation. <i>Pattern Recognition</i> , <b>2011</b> , 44, 2367-2374	7.7	55
10	Feature context for image classification and object detection <b>2011</b> ,		36
9	Shape Classification Using Tree -Unions <b>2010</b> ,		8
8	Learning context-sensitive shape similarity by graph transduction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2010</b> , 32, 861-74	13.3	164
7	Integrating contour and skeleton for shape classification <b>2009</b> ,		47
6	Path similarity skeleton graph matching. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2008</b> , 30, 1282-92	13.3	217
5	Detection and recognition of contour parts based on shape similarity. <i>Pattern Recognition</i> , <b>2008</b> , 41, 2189-2199	13.3	21951
4	Contour Grouping Based on Local Symmetry <b>2007</b> ,		6
3	Skeleton pruning by contour partitioning with discrete curve evolution. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2007</b> , 29, 449-62	13.3	289
2	Deep learning for predicting COVID-19 malignant progression		32
1	Smart Electronic Nose Enabled by an All-Feature Olfactory Algorithm. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000074		1