Xiang Bai

List of Publications by Citations

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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	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	13.3	911
120	AID: A Benchmark Data Set for Performance Evaluation of Aerial Scene Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 3965-3981	8.1	739
119	DOTA: A Large-Scale Dataset for Object Detection in Aerial Images **2018**,		556
118	TextBoxes++: A Single-Shot Oriented Scene Text Detector. *IEEE Transactions on Image Processing*, **2018**, 27, 3676-3690	8.7	337
117	Detecting Oriented Text in Natural Images by Linking Segments **2017**,		296
116	Skeleton pruning by contour partitioning with discrete curve evolution. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2007**, 29, 449-62	13.3	289
115	Multi-oriented Text Detection with Fully Convolutional Networks **2016**,		282
114	Richer Convolutional Features for Edge Detection **2017**,		253
113	Robust Scene Text Recognition with Automatic Rectification **2016**,		235
112	DeepPano: Deep Panoramic Representation for 3-D Shape Recognition. *IEEE Signal Processing Letters*, **2015**, 22, 2339-2343	3.2	222
111	Path similarity skeleton graph matching. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2008**, 30, 1282-92	13.3	217
110	Scene text detection and recognition: recent advances and future trends. *Frontiers of Computer Science*, **2016**, 10, 19-36	2.2	210
109	**2018**,		194
108	ASTER: An Attentional Scene Text Recognizer with Flexible Rectification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 2035-2048	13.3	189
107	A unified framework for multioriented text detection and recognition. *IEEE Transactions on Image Processing*, **2014**, 23, 4737-49	8.7	170
106	Learning context-sensitive shape similarity by graph transduction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2010**, 32, 861-74	13.3	164
105	Multi-oriented Scene Text Detection via Corner Localization and Region Segmentation **2018**,		161

104	Symmetry-based text line detection in natural scenes **2015**,		154
103	Gliding Vertex on the Horizontal Bounding Box for Multi-Oriented Object Detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 1452-1459	13.3	150
102	Strokelets: A Learned Multi-scale Representation for Scene Text Recognition **2014**,		139
101	Shape matching and classification using height functions. *Pattern Recognition Letters*, **2012**, 33, 134-143	4.7	138
100	GIFT: A Real-Time and Scalable 3D Shape Search Engine **2016**,		131
99	TextField: Learning a Deep Direction Field for Irregular Scene Text Detection. *IEEE Transactions on Image Processing*, **2019**, 28, 5566-5579	8.7	120
98	Traffic sign detection and recognition using fully convolutional network guided proposals. *Neurocomputing*, **2016**, 214, 758-766	5.4	113
97	Mask TextSpotter: An End-to-End Trainable Neural Network for Spotting Text with Arbitrary Shapes. *Lecture Notes in Computer Science*, **2018**, 71-88	0.9	112
96	Real-Time Scene Text Detection with Differentiable Binarization. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2020**, 34, 11474-11481	5	110
95	PCL: Proposal Cluster Learning for Weakly Supervised Object Detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 176-191	13.3	106
94	Bag of contour fragments for robust shape classification. *Pattern Recognition*, **2014**, 47, 2116-2125	7.7	104
93	Sparse Contextual Activation for Efficient Visual Re-Ranking. *IEEE Transactions on Image Processing*, **2016**, 25, 1056-69	8.7	95
92	Progressive Pose Attention Transfer for Person Image Generation **2019**,		94
91	Deep-Person: Learning discriminative deep features for person Re-Identification. *Pattern Recognition*, **2020**, 98, 107036	7.7	86
90	Script identification in the wild via discriminative convolutional neural network. *Pattern Recognition* , **2016**, 52, 448-458	7.7	81
89	Co-transduction for shape retrieval. *IEEE Transactions on Image Processing*, **2012**, 21, 2747-57	8.7	77
88	Scene Text Recognition from Two-Dimensional Perspective. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2019**, 33, 8714-8721	5	72
87	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	13.3	72

86	Shape vocabulary: a robust and efficient shape representation for shape matching. *IEEE Transactions on Image Processing*, **2014**, 23, 3935-49	8.7	69
85	ICDAR2017 Competition on Reading Chinese Text in the Wild (RCTW-17) **2017**,		69
84	Text/non-text image classification in the wild with convolutional neural networks. *Pattern Recognition*, **2017**, 66, 437-446	7.7	67
83	Skeleton growing and pruning with bending potential ratio. *Pattern Recognition*, **2011**, 44, 196-209	7.7	63
82	Strokelets: A Learned Multi-Scale Mid-Level Representation for Scene Text Recognition. *IEEE Transactions on Image Processing*, **2016**, 25, 2789-2802	8.7	63
81	Image stitching by line-guided local warping with global similarity constraint. *Pattern Recognition*, **2018**, 83, 481-497	7.7	63
80	3D Shape Matching via Two Layer Coding. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2015**, 37, 2361-73	13.3	62
79	Symmetry-Constrained Rectification Network for Scene Text Recognition **2019**,		56
78	. *IEEE Transactions on Multimedia*, **2017**, 19, 1257-1271	6.6	55
77	Similarity Fusion for Visual Tracking. *International Journal of Computer Vision*, **2016**, 118, 337-363	10.6	55
76	Learning context-sensitive similarity by shortest path propagation. *Pattern Recognition*, **2011**, 44, 2367-2374	7.7	55
75	TANet: Robust 3D Object Detection from Point Clouds with Triple Attention. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2020**, 34, 11677-11684	5	53
74	Learning Temporal and Spatial Correlations Jointly: A Unified Framework for Wind Speed Prediction. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 509-523	8.2	52
73	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	8.7	51
72	Detection and recognition of contour parts based on shape similarity. *Pattern Recognition*, **2008**, 41, 2189-2199	7.7	51
71	Object Skeleton Extraction in Natural Images by Fusing Scale-Associated Deep Side Outputs **2016**,		48
70	Learn to Scale: Generating Multipolar Normalized Density Maps for Crowd Counting **2019**,		48
69	Integrating contour and skeleton for shape classification **2009**,		47

68	Deep patch learning for weakly supervised object classification and discovery. *Pattern Recognition*, **2017**, 71, 446-459	7.7	45
67	Action recognition for depth video using multi-view dynamic images. *Information Sciences*, **2019**, 480, 287-304	7.7	44
66	. *IEEE Transactions on Intelligent Transportation Systems*, **2015**, 16, 2925-2934	6.1	41
65	DeepContour: A deep convolutional feature learned by positive-sharing loss for contour detection **2015**,		40
64	SegLink++: Detecting Dense and Arbitrary-shaped Scene Text by Instance-aware Component Grouping. *Pattern Recognition*, **2019**, 96, 106954	7.7	39
63	Learning Sparse and Identity-Preserved Hidden Attributes for Person Re-Identification. *IEEE Transactions on Image Processing*, **2020**, 29, 2013-2025	8.7	39
62	Multiple instance subspace learning via partial random projection tree for local reflection symmetry in natural images. *Pattern Recognition*, **2016**, 52, 306-316	7.7	37
61	Feature context for image classification and object detection **2011**,		36
60	Object Detection in Aerial Images: A Large-Scale Benchmark and Challenges. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	34
59	All You Need Is Boundary: Toward Arbitrary-Shaped Text Spotting. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2020**, 34, 12160-12167	5	33
58	Integrating Scene Text and Visual Appearance for Fine-Grained Image Classification. *IEEE Access*, **2018**, 6, 66322-66335	3.5	33
57	Deep learning for predicting COVID-19 malignant progression		32
56	Image Caption Generation with Part of Speech Guidance. *Pattern Recognition Letters*, **2019**, 119, 229-237	4.7	31
55	Regularized Diffusion Process on Bidirectional Context for Object Retrieval. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 1213-1226	13.3	28
54	Beyond diffusion process: Neighbor set similarity for fast re-ranking. *Information Sciences*, **2015**, 325, 342-354	7.7	27
53	Deep FisherNet for Image Classification. *IEEE Transactions on Neural Networks and Learning Systems* , **2019**, 30, 2244-2250	10.3	27
52	Deep sketch feature for cross-domain image retrieval. *Neurocomputing*, **2016**, 207, 387-397	5.4	26
51	Automatic script identification in the wild **2015**,		25

50	Editing Text in the Wild **2019**,		25
49	Shape clustering: Common structure discovery. *Pattern Recognition*, **2013**, 46, 539-550	7.7	24
48	Mask TextSpotter v3: Segmentation Proposal Network for Robust Scene Text Spotting. *Lecture Notes in Computer Science*, **2020**, 706-722	0.9	24
47	Anisotropic-Scale Junction Detection and Matching for Indoor Images. *IEEE Transactions on Image Processing*, **2018**, 27, 78-91	8.7	23
46	Neural shape codes for 3D model retrieval. *Pattern Recognition Letters*, **2015**, 65, 15-21	4.7	22
45	A Deep End-to-End Model for Transient Stability Assessment With PMU Data. *IEEE Access*, **2018**, 6, 65474-65487	3.9	22
44	VD-SAN: Visual-Densely Semantic Attention Network for Image Caption Generation. *Neurocomputing*, **2019**, 328, 48-55	5.4	19
43	MASTER: Multi-aspect non-local network for scene text recognition. *Pattern Recognition*, **2021**, 117, 107980	7.7	19
42	Rotation-invariant features for multi-oriented text detection in natural images. *PLoS ONE*, **2013**, 8, e70173	3.7	18
41	View N-Gram Network for 3D Object Retrieval **2019**,		17
40	Affinity Space Adaptation for Semantic Segmentation Across Domains. *IEEE Transactions on Image Processing*, **2021**, 30, 2549-2561	8.7	17
39	Deep learning for predicting COVID-19 malignant progression. *Medical Image Analysis*, **2021**, 72, 102096	15.4	16
38	Automatic discrimination of text and non-text natural images **2015**,		15
37	AutoSTR: Efficient Backbone Search for Scene Text Recognition. *Lecture Notes in Computer Science*, **2020**, 751-767	0.9	15
36	Automatic Ensemble Diffusion for 3D Shape and Image Retrieval. *IEEE Transactions on Image Processing*, **2019**, 28, 88-101	8.7	13
35	Scene Text Image Super-Resolution in the Wild. *Lecture Notes in Computer Science*, **2020**, 650-666	0.9	13
34	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	1.1	12
33	SynthText3D: synthesizing scene text images from 3D virtual worlds. *Science China Information Sciences*, **2020**, 63, 1	3.4	11

32	DeepFlux for Skeletons in the Wild **2019**,		11
31	Improving context-sensitive similarity via smooth neighborhood for object retrieval. *Pattern Recognition*, **2018**, 83, 353-364	7.7	10
30	Texture Characterization Using Shape Co-Occurrence Patterns. *IEEE Transactions on Image Processing*, **2017**, 26, 5005-5018	8.7	10
29	AutoScale: Learning to Scale for Crowd Counting. *International Journal of Computer Vision*, **2022**, 130, 405	10.6	10
28	. *IEEE Transactions on Multimedia*, **2016**, 18, 1351-1362	6.6	10
27	PRA-Net: Point Relation-Aware Network for 3D Point Cloud Analysis. *IEEE Transactions on Image Processing*, **2021**, 30, 4436-4448	8.7	9
26	Shape Classification Using Tree -Unions **2010**,		8
25	**2021**,		8
24	Patch Aggregator for Scene Text Script Identification **2019**,		8
23	TransCrowd: weakly-supervised crowd counting with transformers. *Science China Information Sciences*, **2022**, 65, 1	3.4	7
22	Contour Grouping Based on Local Symmetry **2007**,		6
21	Feature context learning for human parsing. *Science China Information Sciences*, **2019**, 62, 1	3.4	6
20	Fusing Image and Segmentation Cues for Skeleton Extraction in the Wild **2017**,		5
19	Few-Shot Text Style Transfer via Deep Feature Similarity. *IEEE Transactions on Image Processing*, **2020**, 29, 6932-6946	8.7	5
18	Deep learning for scene text detection and recognition. *Scientia Sinica Informationis*, **2018**, 48, 531-544	2.3	5
17	VisDrone-CC2020: The Vision Meets Drone Crowd Counting Challenge Results. *Lecture Notes in Computer Science*, **2020**, 675-691	0.9	5
16	An Improved Multi-View Convolutional Neural Network for 3D Object Retrieval. *IEEE Transactions on Image Processing*, **2020**, 29, 7917-7930	8.7	5
15	VisDrone-CC2021: The Vision Meets Drone Crowd Counting Challenge Results **2021**,		4

14	Scene Text Retrieval via Joint Text Detection and Similarity Learning **2021**,		4
13	Shape Recognition by Combining Contour and Skeleton into a Mid-Level Representation. *Communications in Computer and Information Science*, **2014**, 391-400	0.3	4
12	Co-spectral for robust shape clustering. *Pattern Recognition Letters*, **2016**, 83, 388-394	4.7	3
11	Directional Edge Boxes: Exploiting Inner Normal Direction Cues for Effective Object Proposal Generation. *Journal of Computer Science and Technology*, **2017**, 32, 701-713	1.7	3
10	Super-BPD: Super Boundary-to-Pixel Direction for Fast Image Segmentation **2020**,		3
9	Cost-Effective Adversarial Attacks against Scene Text Recognition **2021**,		3
8	Cell Localization and Counting Using Direction Field Map. *IEEE Journal of Biomedical and Health Informatics*, **2021**, PP,	7.2	3
7	Scene Text Detection with Scribble Line. *Lecture Notes in Computer Science*, **2021**, 79-94	0.9	2
6	Video Text Tracking With a Spatio-Temporal Complementary Model. *IEEE Transactions on Image Processing*, **2021**, 30, 9321-9331	8.7	1
5	Symmetry-based object proposal for text detection **2016**,		1
4	DeepFlux for Skeleton Detection in the Wild. *International Journal of Computer Vision*, **2021**, 129, 1323-1339	13.6	1
3	Smart Electronic Nose Enabled by an All-Feature Olfactory Algorithm. *Advanced Intelligent Systems*,2200074	6	1
2	Skeletonization in natural images and its application to object recognition **2017**, 259-285		
1	Maximum Entropy Regularization and Chinese Text Recognition. *Lecture Notes in Computer Science*, **2020**, 3-17	0.9	