

Xiang Bai

List of Publications by Year in descending order

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122
papers

16,925
citations

38660

50
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48187

88
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125
all docs

125
docs citations

125
times ranked

7965
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell Localization and Counting Using Direction Field Map. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 359-368.	3.9	10
2	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
3	AutoScale: Learning to Scale for Crowd Counting. International Journal of Computer Vision, 2022, 130, 405-434.	10.9	47
4	Comprehensive benchmark datasets for Amharic scene text detection and recognition. Science China Information Sciences, 2022, 65, 1.	2.7	3
5	TransCrowd: weakly-supervised crowd counting with transformers. Science China Information Sciences, 2022, 65, 1.	2.7	109
6	Smart Electronic Nose Enabled by an All-Feature Olfactory Algorithm. Advanced Intelligent Systems, 2022, 4, .	3.3	17
7	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
8	Affinity Space Adaptation for Semantic Segmentation Across Domains. IEEE Transactions on Image Processing, 2021, 30, 2549-2561.	6.0	41
9	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
10	Cost-Effective Adversarial Attacks against Scene Text Recognition. , 2021, , .		6
11	PRA-Net: Point Relation-Aware Network for 3D Point Cloud Analysis. IEEE Transactions on Image Processing, 2021, 30, 4436-4448.	6.0	63
12	Scene Text Detection with Scribble Line. Lecture Notes in Computer Science, 2021, , 79-94.	1.0	6
13	Deep learning for predicting COVID-19 malignant progression. Medical Image Analysis, 2021, 72, 102096.	7.0	55
14	MASTER: Multi-aspect non-local network for scene text recognition. Pattern Recognition, 2021, 117, 107980.	5.1	75
15	DeepFlux for Skeleton Detection in the Wild. International Journal of Computer Vision, 2021, 129, 1323-1339.	10.9	8
16	Scene Text Retrieval via Joint Text Detection and Similarity Learning. , 2021, , .		22
17	MOST: A Multi-Oriented Scene Text Detector with Localization Refinement. , 2021, , .		47
18	Video Text Tracking With a Spatio-Temporal Complementary Model. IEEE Transactions on Image Processing, 2021, 30, 9321-9331.	6.0	7

#	ARTICLE	IF	CITATIONS
19	VisDrone-CC2021: The Vision Meets Drone Crowd Counting Challenge Results. , 2021, , .		11
20	PCL: Proposal Cluster Learning for Weakly Supervised Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 176-191.	9.7	217
21	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
22	Deep-Person: Learning discriminative deep features for person Re-Identification. Pattern Recognition, 2020, 98, 107036.	5.1	151
23	Learning Sparse and Identity-Preserved Hidden Attributes for Person Re-Identification. IEEE Transactions on Image Processing, 2020, 29, 2013-2025.	6.0	58
24	Real-Time Scene Text Detection with Differentiable Binarization. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 11474-11481.	3.6	379
25	An Improved Multi-View Convolutional Neural Network for 3D Object Retrieval. IEEE Transactions on Image Processing, 2020, 29, 7917-7930.	6.0	15
26	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
27	Super-BPD: Super Boundary-to-Pixel Direction for Fast Image Segmentation. , 2020, , .		14
28	SynthText3D: synthesizing scene text images from 3D virtual worlds. Science China Information Sciences, 2020, 63, 1.	2.7	22
29	AutoSTR: Efficient Backbone Search for Scene Text Recognition. Lecture Notes in Computer Science, 2020, , 751-767.	1.0	25
30	Scene Text Image Super-Resolution in the Wild. Lecture Notes in Computer Science, 2020, , 650-666.	1.0	54
31	Mask TextSpotter v3: Segmentation Proposal Network for Robust Scene Text Spotting. Lecture Notes in Computer Science, 2020, , 706-722.	1.0	89
32	Few-Shot Text Style Transfer via Deep Feature Similarity. IEEE Transactions on Image Processing, 2020, 29, 6932-6946.	6.0	21
33	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
34	VisDrone-CC2020: The Vision Meets Drone Crowd Counting Challenge Results. Lecture Notes in Computer Science, 2020, , 675-691.	1.0	7
35	Maximum Entropy Regularization and Chinese Text Recognition. Lecture Notes in Computer Science, 2020, , 3-17.	1.0	2
36	Automatic Ensemble Diffusion for 3D Shape and Image Retrieval. IEEE Transactions on Image Processing, 2019, 28, 88-101.	6.0	19

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37	ASTER: An Attentional Scene Text Recognizer with Flexible Rectification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2035-2048.	9.7	432
38	VD-SAN: Visual-Densely Semantic Attention Network for Image Caption Generation. Neurocomputing, 2019, 328, 48-55.	3.5	36
39	SegLink++: Detecting Dense and Arbitrary-shaped Scene Text by Instance-aware Component Grouping. Pattern Recognition, 2019, 96, 106954.	5.1	101
40	Action recognition for depth video using multi-view dynamic images. Information Sciences, 2019, 480, 287-304.	4.0	80
41	TextField: Learning a Deep Direction Field for Irregular Scene Text Detection. IEEE Transactions on Image Processing, 2019, 28, 5566-5579.	6.0	222
42	Learn to Scale: Generating Multipolar Normalized Density Maps for Crowd Counting. , 2019, , .		86
43	Patch Aggregator for Scene Text Script Identification. , 2019, , .		17
44	View N-Gram Network for 3D Object Retrieval. , 2019, , .		33
45	Symmetry-Constrained Rectification Network for Scene Text Recognition. , 2019, , .		99
46	Progressive Pose Attention Transfer for Person Image Generation. , 2019, , .		220
47	DeepFlux for Skeletons in the Wild. , 2019, , .		32
48	Scene Text Recognition from Two-Dimensional Perspective. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8714-8721.	3.6	139
49	Feature context learning for human parsing. Science China Information Sciences, 2019, 62, 1.	2.7	11
50	Deep FisherNet for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2244-2250.	7.2	39
51	Image Caption Generation with Part of Speech Guidance. Pattern Recognition Letters, 2019, 119, 229-237.	2.6	51
52	Regularized Diffusion Process on Bidirectional Context for Object Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1213-1226.	9.7	51
53	Editing Text in the Wild. , 2019, , .		59
54	TextBoxes++: A Single-Shot Oriented Scene Text Detector. IEEE Transactions on Image Processing, 2018, 27, 3676-3690.	6.0	583

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55	Anisotropic-Scale Junction Detection and Matching for Indoor Images. IEEE Transactions on Image Processing, 2018, 27, 78-91.	6.0	27
56	Integrating Scene Text and Visual Appearance for Fine-Grained Image Classification. IEEE Access, 2018, 6, 66322-66335.	2.6	52
57	DOTA: A Large-Scale Dataset for Object Detection in Aerial Images. , 2018, , .		1,294
58	Rotation-Sensitive Regression for Oriented Scene Text Detection. , 2018, , .		348
59	Multi-oriented Scene Text Detection via Corner Localization and Region Segmentation. , 2018, , .		263
60	A Deep End-to-End Model for Transient Stability Assessment With PMU Data. IEEE Access, 2018, 6, 65474-65487.	2.6	36
61	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
62	Image stitching by line-guided local warping with global similarity constraint. Pattern Recognition, 2018, 83, 481-497.	5.1	85
63	Improving context-sensitive similarity via smooth neighborhood for object retrieval. Pattern Recognition, 2018, 83, 353-364.	5.1	11
64	Deep learning for scene text detection and recognition. Scientia Sinica Informationis, 2018, 48, 531-544.	0.2	10
65	GIFT: Towards Scalable 3D Shape Retrieval. IEEE Transactions on Multimedia, 2017, 19, 1257-1271.	5.2	66
66	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
67	Deep patch learning for weakly supervised object classification and discovery. Pattern Recognition, 2017, 71, 446-459.	5.1	58
68	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
69	Text/non-text image classification in the wild with convolutional neural networks. Pattern Recognition, 2017, 66, 437-446.	5.1	80
70	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
71	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
72	Texture Characterization Using Shape Co-Occurrence Patterns. IEEE Transactions on Image Processing, 2017, 26, 5005-5018.	6.0	12

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73	Richer Convolutional Features for Edge Detection. , 2017, , .		427
74	ICDAR2017 Competition on Reading Chinese Text in the Wild (RCTW-17). , 2017, , .		108
75	Detecting Oriented Text in Natural Images by Linking Segments. , 2017, , .		509
76	Fusing Image and Segmentation Cues for Skeleton Extraction in the Wild. , 2017, , .		11
77	Skeletonization in natural images and its application to object recognition. , 2017, , 259-285.		0
78	Multi-oriented Text Detection with Fully Convolutional Networks. , 2016, , .		408
79	Robust Scene Text Recognition with Automatic Rectification. , 2016, , .		405
80	GIFT: A Real-Time and Scalable 3D Shape Search Engine. , 2016, , .		168
81	Object Skeleton Extraction in Natural Images by Fusing Scale-Associated Deep Side Outputs. , 2016, , .		70
82	Symmetry-based object proposal for text detection. , 2016, , .		1
83	Deep sketch feature for cross-domain image retrieval. Neurocomputing, 2016, 207, 387-397.	3.5	34
84	Multiple Stage Residual Model for Image Classification and Vector Compression. IEEE Transactions on Multimedia, 2016, 18, 1351-1362.	5.2	14
85	Strokelets: A Learned Multi-Scale Mid-Level Representation for Scene Text Recognition. IEEE Transactions on Image Processing, 2016, 25, 2789-2802.	6.0	78
86	Co-spectral for robust shape clustering. Pattern Recognition Letters, 2016, 83, 388-394.	2.6	3
87	Traffic sign detection and recognition using fully convolutional network guided proposals. Neurocomputing, 2016, 214, 758-766.	3.5	185
88	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
89	Similarity Fusion for Visual Tracking. International Journal of Computer Vision, 2016, 118, 337-363.	10.9	74
90	Script identification in the wild via discriminative convolutional neural network. Pattern Recognition, 2016, 52, 448-458.	5.1	100

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91	Sparse Contextual Activation for Efficient Visual Re-Ranking. IEEE Transactions on Image Processing, 2016, 25, 1056-1069.	6.0	125
92	Scene text detection and recognition: recent advances and future trends. Frontiers of Computer Science, 2016, 10, 19-36.	1.6	298
93	DeepContour: A deep convolutional feature learned by positive-sharing loss for contour detection. , 2015, , .		102
94	Automatic discrimination of text and non-text natural images. , 2015, , .		23
95	Beyond diffusion process: Neighbor set similarity for fast re-ranking. Information Sciences, 2015, 325, 342-354.	4.0	34
96	Neural shape codes for 3D model retrieval. Pattern Recognition Letters, 2015, 65, 15-21.	2.6	22
97	Vehicle Color Recognition With Spatial Pyramid Deep Learning. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2925-2934.	4.7	72
98	3D Shape Matching via Two Layer Coding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2361-2373.	9.7	73
99	DeepPano: Deep Panoramic Representation for 3-D Shape Recognition. IEEE Signal Processing Letters, 2015, 22, 2339-2343.	2.1	300
100	Symmetry-based text line detection in natural scenes. , 2015, , .		216
101	Automatic script identification in the wild. , 2015, , .		37
102	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
103	Aggregating contour fragments for shape classification. , 2014, , .		2
104	Strokelets: A Learned Multi-scale Representation for Scene Text Recognition. , 2014, , .		200
105	A Unified Framework for Multioriented Text Detection and Recognition. IEEE Transactions on Image Processing, 2014, 23, 4737-4749.	6.0	260
106	Shape Vocabulary: A Robust and Efficient Shape Representation for Shape Matching. IEEE Transactions on Image Processing, 2014, 23, 3935-3949.	6.0	91
107	Bag of contour fragments for robust shape classification. Pattern Recognition, 2014, 47, 2116-2125.	5.1	140
108	Shape Recognition by Combining Contour and Skeleton into a Mid-Level Representation. Communications in Computer and Information Science, 2014, , 391-400.	0.4	7

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109	Shape clustering: Common structure discovery. Pattern Recognition, 2013, 46, 539-550.	5.1	28
110	Rotation-Invariant Features for Multi-Oriented Text Detection in Natural Images. PLoS ONE, 2013, 8, e70173.	1.1	21
111	Shape matching and classification using height functions. Pattern Recognition Letters, 2012, 33, 134-143.	2.6	191
112	Co-Transduction for Shape Retrieval. IEEE Transactions on Image Processing, 2012, 21, 2747-2757.	6.0	89
113	Skeleton growing and pruning with bending potential ratio. Pattern Recognition, 2011, 44, 196-209.	5.1	82
114	Learning context-sensitive similarity by shortest path propagation. Pattern Recognition, 2011, 44, 2367-2374.	5.1	67
115	Feature context for image classification and object detection. , 2011, , .		57
116	Shape Classification Using Tree -Unions. , 2010, , .		13
117	Learning Context-Sensitive Shape Similarity by Graph Transduction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 861-874.	9.7	211
118	Integrating contour and skeleton for shape classification. , 2009, , .		72
119	Detection and recognition of contour parts based on shape similarity. Pattern Recognition, 2008, 41, 2189-2199.	5.1	72
120	Path Similarity Skeleton Graph Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1282-1292.	9.7	277
121	Contour Grouping Based on Local Symmetry. , 2007, , .		11
122	Skeleton Pruning by Contour Partitioning with Discrete Curve Evolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 449-462.	9.7	357