

Haibin Ling

List of Publications by Year in descending order

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137
papers

8,616
citations

147566

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138
all docs

138
docs citations

138
times ranked

5532
citing authors

#	ARTICLE	IF	CITATIONS
1	LIME: Low-Light Image Enhancement via Illumination Map Estimation. IEEE Transactions on Image Processing, 2017, 26, 982-993.	6.0	1,388
2	Encoding Color Information for Visual Tracking: Algorithms and Benchmark. IEEE Transactions on Image Processing, 2015, 24, 5630-5644.	6.0	583
3	U2Fusion: A Unified Unsupervised Image Fusion Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 502-518.	9.7	569
4	Feature Pyramid and Hierarchical Boosting Network for Pavement Crack Detection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1525-1535.	4.7	460
5	Salient Object Detection via Structured Matrix Decomposition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 818-832.	9.7	295
6	Saliency Detection on Light Field. , 2014, , .		282
7	Real time robust L1 tracker using accelerated proximal gradient approach. , 2012, , .		264
8	Salient Object Detection in the Deep Learning Era: An In-Depth Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3239-3259.	9.7	259
9	A Deep Network Solution for Attention and Aesthetics Aware Photo Cropping. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1531-1544.	9.7	251
10	Parallel Tracking and Verifying: A Framework for Real-Time and High Accuracy Visual Tracking. , 2017, , .		249
11	Revisiting Video Saliency Prediction in the Deep Learning Era. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 220-237.	9.7	174
12	ICNet: Information Conversion Network for RGB-D Based Salient Object Detection. IEEE Transactions on Image Processing, 2020, 29, 4873-4884.	6.0	167
13	Learning Unsupervised Video Object Segmentation Through Visual Attention. , 2019, , .		157
14	Hierarchical Alternate Interaction Network for RGB-D Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3528-3542.	6.0	157
15	SANet: Structure-Aware Network for Visual Tracking. , 2017, , .		156
16	Face Verification Across Age Progression Using Discriminative Methods. IEEE Transactions on Information Forensics and Security, 2010, 5, 82-91.	4.5	148
17	Dynamical Hyperparameter Optimization via Deep Reinforcement Learning in Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1515-1529.	9.7	122
18	Minimum error bounded efficient ℓ<inf>1</inf> tracker with occlusion detection. , 2011, , .		118

#	ARTICLE	IF	CITATIONS
19	Dynamic Urban Surveillance Video Stream Processing Using Fog Computing. , 2016, , .		116
20	MTFH: A Matrix Tri-Factorization Hashing Framework for Efficient Cross-Modal Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 964-981.	9.7	106
21	Cross-Modal Weighting Network for RGB-D Salient Object Detection. Lecture Notes in Computer Science, 2020, , 665-681.	1.0	100
22	Combining Convolutional and Recurrent Neural Networks for Human Skin Detection. IEEE Signal Processing Letters, 2017, 24, 289-293.	2.1	93
23	A new texture descriptor using multifractal analysis in multi-orientation wavelet pyramid. , 2010, , .		90
24	StructVIO: Visual-Inertial Odometry With Structural Regularity of Man-Made Environments. IEEE Transactions on Robotics, 2019, 35, 999-1013.	7.3	89
25	Visual Tracking via Online Nonnegative Matrix Factorization. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 374-383.	5.6	87
26	Discriminative vessel segmentation in retinal images by fusing context-aware hybrid features. Machine Vision and Applications, 2014, 25, 1779-1792.	1.7	83
27	Blurred target tracking by Blur-driven Tracker. , 2011, , .		79
28	Privacy-Protective-GAN for Privacy Preserving Face De-Identification. Journal of Computer Science and Technology, 2019, 34, 47-60.	0.9	78
29	Paying Attention to Video Object Pattern Understanding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2413-2428.	9.7	71
30	Saliency Detection on Light Field. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1605-1616.	9.7	68
31	Mutually Guided Image Filtering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 694-707.	9.7	66
32	Scale and Object Aware Image Thumbnailing. International Journal of Computer Vision, 2013, 104, 135-153.	10.9	62
33	3D R Transform on Spatio-temporal Interest Points for Action Recognition. , 2013, , .		60
34	Finding the Best from the Second Bests - Inhibiting Subjective Bias in Evaluation of Visual Tracking Algorithms. , 2013, , .		55
35	Image-based action recognition using hint-enhanced deep neural networks. Neurocomputing, 2017, 267, 475-488.	3.5	54
36	Enabling Smart Urban Surveillance at The Edge. , 2017, , .		54

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37	Age regression from faces using random forests. , 2009, 2009, 2465-2468.		52
38	Cracker: A Graph-Based Planar Object Tracker. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1494-1501.	9.7	50
39	Adjacent Context Coordination Network for Salient Object Detection in Optical Remote Sensing Images. IEEE Transactions on Cybernetics, 2023, 53, 526-538.	6.2	47
40	A Container-Based Elastic Cloud Architecture for Pseudo Real-Time Exploitation of Wide Area Motion Imagery (WAMI) Stream. Journal of Signal Processing Systems, 2017, 88, 219-231.	1.4	46
41	Graph Matching with Adaptive and Branching Path Following. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2853-2867.	9.7	37
42	Multi-target Tracking by Rank-1 Tensor Approximation. , 2013, , .		36
43	Personal Fixations-Based Object Segmentation With Object Localization and Boundary Preservation. IEEE Transactions on Image Processing, 2021, 30, 1461-1475.	6.0	34
44	Cross-Domain Traffic Scene Understanding: A Dense Correspondence-Based Transfer Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 745-757.	4.7	33
45	Robust Nighttime Vehicle Detection by Tracking and Grouping Headlights. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2838-2849.	4.7	32
46	Online robust image alignment via iterative convex optimization. , 2012, , .		30
47	A novel pixel neighborhood differential statistic feature for pedestrian and face detection. Pattern Recognition, 2017, 63, 127-138.	5.1	30
48	Multi-Level Contextual RNNs With Attention Model for Scene Labeling. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3475-3485.	4.7	28
49	Multi-Content Complementation Network for Salient Object Detection in Optical Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	28
50	Recurrent Exposure Generation for Low-Light Face Detection. IEEE Transactions on Multimedia, 2022, 24, 1609-1621.	5.2	27
51	Lightweight Salient Object Detection in Optical Remote Sensing Images via Feature Correlation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	27
52	Planar Object Tracking in the Wild: A Benchmark. , 2018, , .		26
53	Adaptive Objectness for Object Tracking. IEEE Signal Processing Letters, 2016, 23, 949-953.	2.1	25
54	Parallel Tracking and Verifying. IEEE Transactions on Image Processing, 2019, 28, 4130-4144.	6.0	23

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55	Multi-target Tracking with Motion Context in Tensor Power Iteration. , 2014, , .		22
56	Tensor Power Iteration for Multi-graph Matching. , 2016, , .		22
57	End-To-End Projector Photometric Compensation. , 2019, , .		22
58	Multi-View 3D Shape Recognition via Correspondence-Aware Deep Learning. IEEE Transactions on Image Processing, 2021, 30, 5299-5312.	6.0	22
59	Contour based object detection using part bundles. Computer Vision and Image Understanding, 2010, 114, 827-834.	3.0	21
60	Scale and object aware image retargeting for thumbnail browsing. , 2011, , .		21
61	Modeling Geometric-Temporal Context With Directional Pyramid Co-Occurrence for Action Recognition. IEEE Transactions on Image Processing, 2014, 23, 658-672.	6.0	20
62	RINDNet: Edge Detection for Discontinuity in Reflectance, Illumination, Normal and Depth. , 2021, , .		20
63	Robust infrared vehicle tracking across target pose change using L<inf>1</inf> regularization. , 2010, , .		19
64	Illumination insensitive efficient second-order minimization for planar object tracking. , 2017, , .		19
65	Rank-1 Tensor Approximation for High-Order Association in Multi-target Tracking. International Journal of Computer Vision, 2019, 127, 1063-1083.	10.9	19
66	A Fast and Flexible Projector-Camera Calibration System. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1049-1063.	3.4	19
67	Using maximum consistency context for multiple target association in wide area traffic scenes. , 2013, , .		18
68	Comparison of micro-CT and cone beam CT on the feasibility of assessing trabecular structures in mandibular condyle. Dentomaxillofacial Radiology, 2017, 46, 20160435.	1.3	18
69	Learning Combinatorial Solver for Graph Matching. , 2020, , .		18
70	Object Discovery From a Single Unlabeled Image by Mining Frequent Itemsets With Multi-Scale Features. IEEE Transactions on Image Processing, 2020, 29, 8606-8621.	6.0	18
71	Cross-Weather Image Alignment via Latent Generative Model With Intensity Consistency. IEEE Transactions on Image Processing, 2020, 29, 5216-5228.	6.0	18
72	Rainy Night Scene Understanding With Near Scene Semantic Adaptation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1594-1602.	4.7	18

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73	Mammographic image classification using histogram intersection. , 2010, , .		17
74	CompenNet++: End-to-End Full Projector Compensation. , 2019, , .		17
75	Robust and Efficient Graph Correspondence Transfer for Person Re-Identification. IEEE Transactions on Image Processing, 2021, 30, 1623-1638.	6.0	17
76	Covert photo classification by deep convolutional neural networks. Machine Vision and Applications, 2017, 28, 623-634.	1.7	15
77	Joint Headlight Pairing and Vehicle Tracking by Weighted Set Packing in Nighttime Traffic Videos. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1950-1961.	4.7	15
78	A Single-Shot-Per-Pose Camera-Projector Calibration System for Imperfect Planar Targets. , 2018, , .		15
79	Tracking-by-Fusion via Gaussian Process Regression Extended to Transfer Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 939-955.	9.7	15
80	Preservative License Plate De-identification for Privacy Protection. , 2011, , .		14
81	Differential Features for Pedestrian Detection: A Taylor Series Perspective. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2913-2922.	4.7	14
82	TapLab: A Fast Framework for Semantic Video Segmentation Tapping Into Compressed-Domain Knowledge. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1591-1603.	9.7	12
83	Curvilinear Structure Tracking by Low Rank Tensor Approximation with Model Propagation. , 2014, , .		11
84	Deformable Surface Tracking by Graph Matching. , 2019, , .		11
85	Weighted bilinear coding over salient body parts for person re-identification. Neurocomputing, 2020, 407, 454-464.	3.5	11
86	DeProCams: Simultaneous Relighting, Compensation and Shape Reconstruction for Projector-Camera Systems. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2725-2735.	2.9	11
87	Learning based thumbnail cropping. , 2009, , .		10
88	Detection of Overlapped Quadrangles in Plane Geometric Figures. , 2013, , .		10
89	A Real-Time High Performance Computation Architecture for Multiple Moving Target Tracking Based on Wide-Area Motion Imagery via Cloud and Graphic Processing Units. Sensors, 2017, 17, 356.	2.1	10
90	Hybrid Camera Pose Estimation With Online Partitioning for SLAM. IEEE Robotics and Automation Letters, 2020, 5, 1453-1460.	3.3	10

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91	PoGO-Net: Pose Graph Optimization with Graph Neural Networks. , 2021, , .		10
92	Sparse representation of cast shadows via ℓ_1 -regularized least squares. , 2009, , .		9
93	Visual Tracking With Multiview Trajectory Prediction. IEEE Transactions on Image Processing, 2020, 29, 8355-8367.	6.0	9
94	Exclusivity Regularized Machine: A New Ensemble SVM Classifier. , 2017, , .		9
95	Tourism scene classification based on multi-stage transfer learning model. Neural Computing and Applications, 2019, 31, 4341-4352.	3.2	8
96	Dual L1-Normalized Context Aware Tensor Power Iteration and Its Applications to Multi-object Tracking and Multi-graph Matching. International Journal of Computer Vision, 2020, 128, 360-392.	10.9	8
97	End-to-End Full Projector Compensation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2953-2967.	9.7	8
98	Hypergraph Neural Networks for Hypergraph Matching. , 2021, , .		8
99	Simultaneous Trajectory Association and Clustering for Motion Segmentation. IEEE Signal Processing Letters, 2018, 25, 145-149.	2.1	7
100	Online single target tracking in WAMI: benchmark and evaluation. Multimedia Tools and Applications, 2018, 77, 10939-10960.	2.6	7
101	Robust visual tracking for planar objects using gradient orientation pyramid. Journal of Electronic Imaging, 2019, 28, 1.	0.5	7
102	Foreground and scene structure preserved visual privacy protection using depth information. , 2013, , .		6
103	Automatic Spatially Varying Illumination Recovery of Indoor Scenes Based on a Single RGB-D Image. IEEE Transactions on Visualization and Computer Graphics, 2018, 26, 1-1.	2.9	6
104	Scene Parsing Via Dense Recurrent Neural Networks With Attentional Selection. , 2019, , .		6
105	Nighttime Road Scene Parsing by Unsupervised Domain Adaptation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3244-3255.	4.7	6
106	Discriminative Level Set for Contour Tracking. , 2010, , .		5
107	Multi-cue based multi-target tracking using online random forests. , 2011, , .		5
108	Trabecular texture analysis in dental CBCT by multi-ROI multi-feature fusion. , 2014, , .		5

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109	Computer vision and pursuitâ€“evasion game theoretical controls for ground robots. Advances in Mechanical Engineering, 2019, 11, 168781401987291.	0.8	5
110	Semantic-aware label placement for augmented reality in street view. Visual Computer, 2021, 37, 1805-1819.	2.5	5
111	Planar object tracking benchmark in the wild. Neurocomputing, 2021, 454, 254-267.	3.5	5
112	Robust Multi-modal 3D Patient Body Modeling. Lecture Notes in Computer Science, 2020, , 86-95.	1.0	5
113	Analysis of Facial Images across Age Progression by Humans. , 2012, 2012, 1-7.		5
114	Compact visual codebook for action recognition. , 2010, , .		4
115	Symmetry-aware graph matching. Pattern Recognition, 2016, 60, 657-668.	5.1	4
116	Light mixture intrinsic image decomposition based on a single RGB-D image. Visual Computer, 2016, 32, 1013-1023.	2.5	4
117	RGB-D Scene Labeling with Multimodal Recurrent Neural Networks. , 2017, , .		4
118	Learning-Based Vessel Segmentation in Mammographic Images. , 2011, , .		3
119	Robust object tracking with boosted discriminative model via graph embedding. , 2011, , .		3
120	Classifying covert photographs. , 2012, , .		3
121	Spatial Prior for Nonparametric Road Scene Parsing. , 2015, , .		3
122	Learning Robust Features for Planar Object Tracking. IEEE Access, 2019, 7, 90398-90411.	2.6	3
123	Probabilistic branching node detection using AdaBoost and hybrid local features. , 2010, , .		2
124	A benchmark for cross-weather traffic scene understanding. , 2016, , .		2
125	Accurate Segmentation for Infrared Flying Bird Tracking. Chinese Journal of Electronics, 2016, 25, 625-631.	0.7	2
126	Constrained Confidence Matching for Planar Object Tracking. , 2018, , .		2

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127	Pedestrian Proposal and Refining Based on the Shared Pixel Differential Feature. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2085-2095.	4.7	2
128	Disparity estimation in stereo video sequence with adaptive spatiotemporally consistent constraints. Visual Computer, 2019, 35, 1427-1446.	2.5	2
129	End-to-end orientation estimation from 2D cryo-EM images. Acta Crystallographica Section D: Structural Biology, 2022, 78, 174-186.	1.1	2
130	Probabilistic branching node detection using hybrid local features. , 2009, , .		1
131	Image Set Classification Using Multi-layer Multiple Instance Learning with Application to Cannabis Website Classification. , 2010, , .		1
132	Struck based infrared flying bird tracking experiments. , 2015, , .		1
133	Face Recognition with Environment Tolerance on a Mobile Device. , 2015, , .		1
134	Vehicle pose estimation in WAMI imagery via deep convolutional neural networks. , 2016, , .		1
135	Efficient Speaker Naming via Deep Audio-Face Fusion and End-to-End Attention Model. , 2017, , .		1
136	Cross datasets vegetation detection with spatial prior and local context. , 2016, , .		0
137	Editorial: Human visual saliency and artificial neural attention in deep learning. Neurocomputing, 2022, 491, 489-491.	3.5	0