

# Haibin Ling

## List of Publications by Year in descending order

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137  
papers

8,616  
citations

147566

31  
h-index

69108

77  
g-index

138  
all docs

138  
docs citations

138  
times ranked

5532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adjacent Context Coordination Network for Salient Object Detection in Optical Remote Sensing Images. IEEE Transactions on Cybernetics, 2023, 53, 526-538.	6.2	47
2	Editorial: Human visual saliency and artificial neural attention in deep learning. Neurocomputing, 2022, 491, 489-491.	3.5	0
3	U2Fusion: A Unified Unsupervised Image Fusion Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 502-518.	9.7	569
4	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
5	End-to-End Full Projector Compensation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2953-2967.	9.7	8
6	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
7	Nighttime Road Scene Parsing by Unsupervised Domain Adaptation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3244-3255.	4.7	6
8	Recurrent Exposure Generation for Low-Light Face Detection. IEEE Transactions on Multimedia, 2022, 24, 1609-1621.	5.2	27
9	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
10	End-to-end orientation estimation from 2D cryo-EM images. Acta Crystallographica Section D: Structural Biology, 2022, 78, 174-186.	1.1	2
11	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
12	A Fast and Flexible Projector-Camera Calibration System. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1049-1063.	3.4	19
13	Paying Attention to Video Object Pattern Understanding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2413-2428.	9.7	71
14	Rainy Night Scene Understanding With Near Scene Semantic Adaptation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1594-1602.	4.7	18
15	Semantic-aware label placement for augmented reality in street view. Visual Computer, 2021, 37, 1805-1819.	2.5	5
16	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
17	Revisiting Video Saliency Prediction in the Deep Learning Era. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 220-237.	9.7	174
18	Robust and Efficient Graph Correspondence Transfer for Person Re-Identification. IEEE Transactions on Image Processing, 2021, 30, 1623-1638.	6.0	17

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19	Dynamical Hyperparameter Optimization via Deep Reinforcement Learning in Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1515-1529.	9.7	122
20	Personal Fixations-Based Object Segmentation With Object Localization and Boundary Preservation. IEEE Transactions on Image Processing, 2021, 30, 1461-1475.	6.0	34
21	Hierarchical Alternate Interaction Network for RGB-D Salient Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3528-3542.	6.0	157
22	Multi-View 3D Shape Recognition via Correspondence-Aware Deep Learning. IEEE Transactions on Image Processing, 2021, 30, 5299-5312.	6.0	22
23	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
24	Planar object tracking benchmark in the wild. Neurocomputing, 2021, 454, 254-267.	3.5	5
25	PoGO-Net: Pose Graph Optimization with Graph Neural Networks. , 2021, , .		10
26	RINDNet: Edge Detection for Discontinuity in Reflectance, Illumination, Normal and Depth. , 2021, , .		20
27	Hypergraph Neural Networks for Hypergraph Matching. , 2021, , .		8
28	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
29	Mutually Guided Image Filtering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 694-707.	9.7	66
30	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
31	Feature Pyramid and Hierarchical Boosting Network for Pavement Crack Detection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1525-1535.	4.7	460
32	Visual Tracking With Multiview Trajectory Prediction. IEEE Transactions on Image Processing, 2020, 29, 8355-8367.	6.0	9
33	Learning Combinatorial Solver for Graph Matching. , 2020, , .		18
34	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
35	Weighted bilinear coding over salient body parts for person re-identification. Neurocomputing, 2020, 407, 454-464.	3.5	11
36	ICNet: Information Conversion Network for RGB-D Based Salient Object Detection. IEEE Transactions on Image Processing, 2020, 29, 4873-4884.	6.0	167

#	ARTICLE	IF	CITATIONS
37	Cross-Weather Image Alignment via Latent Generative Model With Intensity Consistency. IEEE Transactions on Image Processing, 2020, 29, 5216-5228.	6.0	18
38	Hybrid Camera Pose Estimation With Online Partitioning for SLAM. IEEE Robotics and Automation Letters, 2020, 5, 1453-1460.	3.3	10
39	Cross-Modal Weighting Network for RGB-D Salient Object Detection. Lecture Notes in Computer Science, 2020, , 665-681.	1.0	100
40	Robust Multi-modal 3D Patient Body Modeling. Lecture Notes in Computer Science, 2020, , 86-95.	1.0	5
41	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
42	Pedestrian Proposal and Refining Based on the Shared Pixel Differential Feature. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2085-2095.	4.7	2
43	Scene Parsing Via Dense Recurrent Neural Networks With Attentional Selection. , 2019, , .		6
44	Computer vision and pursuitâ€“evasion game theoretical controls for ground robots. Advances in Mechanical Engineering, 2019, 11, 168781401987291.	0.8	5
45	Privacy-Protective-GAN for Privacy Preserving Face De-Identification. Journal of Computer Science and Technology, 2019, 34, 47-60.	0.9	78
46	Rank-1 Tensor Approximation for High-Order Association in Multi-target Tracking. International Journal of Computer Vision, 2019, 127, 1063-1083.	10.9	19
47	StructVIO: Visual-Inertial Odometry With Structural Regularity of Man-Made Environments. IEEE Transactions on Robotics, 2019, 35, 999-1013.	7.3	89
48	Learning Robust Features for Planar Object Tracking. IEEE Access, 2019, 7, 90398-90411.	2.6	3
49	Parallel Tracking and Verifying. IEEE Transactions on Image Processing, 2019, 28, 4130-4144.	6.0	23
50	End-To-End Projector Photometric Compensation. , 2019, , .		22
51	Deformable Surface Tracking by Graph Matching. , 2019, , .		11
52	CompenNet++: End-to-End Full Projector Compensation. , 2019, , .		17
53	Learning Unsupervised Video Object Segmentation Through Visual Attention. , 2019, , .		157
54	Disparity estimation in stereo video sequence with adaptive spatiotemporally consistent constraints. Visual Computer, 2019, 35, 1427-1446.	2.5	2

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55	Differential Features for Pedestrian Detection: A Taylor Series Perspective. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2913-2922.	4.7	14
56	Tourism scene classification based on multi-stage transfer learning model. Neural Computing and Applications, 2019, 31, 4341-4352.	3.2	8
57	Robust visual tracking for planar objects using gradient orientation pyramid. Journal of Electronic Imaging, 2019, 28, 1.	0.5	7
58	Multi-Level Contextual RNNs With Attention Model for Scene Labeling. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3475-3485.	4.7	28
59	Graph Matching with Adaptive and Branching Path Following. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2853-2867.	9.7	37
60	Simultaneous Trajectory Association and Clustering for Motion Segmentation. IEEE Signal Processing Letters, 2018, 25, 145-149.	2.1	7
61	Online single target tracking in WAMI: benchmark and evaluation. Multimedia Tools and Applications, 2018, 77, 10939-10960.	2.6	7
62	Cracker: A Graph-Based Planar Object Tracker. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1494-1501.	9.7	50
63	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
64	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
65	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
66	A Single-Shot-Per-Pose Camera-Projector Calibration System for Imperfect Planar Targets. , 2018, , .		15
67	Constrained Confidence Matching for Planar Object Tracking. , 2018, , .		2
68	Planar Object Tracking in the Wild: A Benchmark. , 2018, , .		26
69	Salient Object Detection via Structured Matrix Decomposition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 818-832.	9.7	295
70	Combining Convolutional and Recurrent Neural Networks for Human Skin Detection. IEEE Signal Processing Letters, 2017, 24, 289-293.	2.1	93
71	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
72	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

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73	LIME: Low-Light Image Enhancement via Illumination Map Estimation. IEEE Transactions on Image Processing, 2017, 26, 982-993.	6.0	1,388
74	RGB-D Scene Labeling with Multimodal Recurrent Neural Networks. , 2017, , .		4
75	SANet: Structure-Aware Network for Visual Tracking. , 2017, , .		156
76	Covert photo classification by deep convolutional neural networks. Machine Vision and Applications, 2017, 28, 623-634.	1.7	15
77	Image-based action recognition using hint-enhanced deep neural networks. Neurocomputing, 2017, 267, 475-488.	3.5	54
78	A novel pixel neighborhood differential statistic feature for pedestrian and face detection. Pattern Recognition, 2017, 63, 127-138.	5.1	30
79	Saliency Detection on Light Field. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1605-1616.	9.7	68
80	Enabling Smart Urban Surveillance at The Edge. , 2017, , .		54
81	Parallel Tracking and Verifying: A Framework for Real-Time and High Accuracy Visual Tracking. , 2017, , .		249
82	Efficient Speaker Naming via Deep Audio-Face Fusion and End-to-End Attention Model. , 2017, , .		1
83	Illumination insensitive efficient second-order minimization for planar object tracking. , 2017, , .		19
84	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
85	Exclusivity Regularized Machine: A New Ensemble SVM Classifier. , 2017, , .		9
86	Vehicle pose estimation in WAMI imagery via deep convolutional neural networks. , 2016, , .		1
87	A benchmark for cross-weather traffic scene understanding. , 2016, , .		2
88	Tensor Power Iteration for Multi-graph Matching. , 2016, , .		22
89	Adaptive Objectness for Object Tracking. IEEE Signal Processing Letters, 2016, 23, 949-953.	2.1	25
90	Accurate Segmentation for Infrared Flying Bird Tracking. Chinese Journal of Electronics, 2016, 25, 625-631.	0.7	2

#	ARTICLE	IF	CITATIONS
91	Dynamic Urban Surveillance Video Stream Processing Using Fog Computing. , 2016, , .		116
92	Symmetry-aware graph matching. Pattern Recognition, 2016, 60, 657-668.	5.1	4
93	Cross datasets vegetation detection with spatial prior and local context. , 2016, , .		0
94	Light mixture intrinsic image decomposition based on a single RGB-D image. Visual Computer, 2016, 32, 1013-1023.	2.5	4
95	Struck based infrared flying bird tracking experiments. , 2015, , .		1
96	Robust Nighttime Vehicle Detection by Tracking and Grouping Headlights. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2838-2849.	4.7	32
97	Spatial Prior for Nonparametric Road Scene Parsing. , 2015, , .		3
98	Face Recognition with Environment Tolerance on a Mobile Device. , 2015, , .		1
99	Encoding Color Information for Visual Tracking: Algorithms and Benchmark. IEEE Transactions on Image Processing, 2015, 24, 5630-5644.	6.0	583
100	Trabecular texture analysis in dental CBCT by multi-ROI multi-feature fusion. , 2014, , .		5
101	Multi-target Tracking with Motion Context in Tensor Power Iteration. , 2014, , .		22
102	Saliency Detection on Light Field. , 2014, , .		282
103	Visual Tracking via Online Nonnegative Matrix Factorization. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 374-383.	5.6	87
104	Curvilinear Structure Tracking by Low Rank Tensor Approximation with Model Propagation. , 2014, , .		11
105	Discriminative vessel segmentation in retinal images by fusing context-aware hybrid features. Machine Vision and Applications, 2014, 25, 1779-1792.	1.7	83
106	Modeling Geometric-Temporal Context With Directional Pyramid Co-Occurrence for Action Recognition. IEEE Transactions on Image Processing, 2014, 23, 658-672.	6.0	20
107	Scale and Object Aware Image Thumbnailing. International Journal of Computer Vision, 2013, 104, 135-153.	10.9	62
108	3D R Transform on Spatio-temporal Interest Points for Action Recognition. , 2013, , .		60

#	ARTICLE	IF	CITATIONS
109	Foreground and scene structure preserved visual privacy protection using depth information. , 2013, , .		6
110	Multi-target Tracking by Rank-1 Tensor Approximation. , 2013, , .		36
111	Using maximum consistency context for multiple target association in wide area traffic scenes. , 2013, , .		18
112	Detection of Overlapped Quadrangles in Plane Geometric Figures. , 2013, , .		10
113	Finding the Best from the Second Bests - Inhibiting Subjective Bias in Evaluation of Visual Tracking Algorithms. , 2013, , .		55
114	Online robust image alignment via iterative convex optimization. , 2012, , .		30
115	Classifying covert photographs. , 2012, , .		3
116	Real time robust L1 tracker using accelerated proximal gradient approach. , 2012, , .		264
117	Analysis of Facial Images across Age Progression by Humans. , 2012, 2012, 1-7.		5
118	Learning-Based Vessel Segmentation in Mammographic Images. , 2011, , .		3
119	Minimum error bounded efficient &#x2113;&lt;inf&gt;1&lt;/inf&gt; tracker with occlusion detection. , 2011, , .		118
120	Preservative License Plate De-identification for Privacy Protection. , 2011, , .		14
121	Robust object tracking with boosted discriminative model via graph embedding. , 2011, , .		3
122	Blurred target tracking by Blur-driven Tracker. , 2011, , .		79
123	Multi-cue based multi-target tracking using online random forests. , 2011, , .		5
124	Scale and object aware image retargeting for thumbnail browsing. , 2011, , .		21
125	A new texture descriptor using multifractal analysis in multi-orientation wavelet pyramid. , 2010, , .		90
126	Face Verification Across Age Progression Using Discriminative Methods. IEEE Transactions on Information Forensics and Security, 2010, 5, 82-91.	4.5	148



#	ARTICLE	IF	CITATIONS
127	Contour based object detection using part bundles. Computer Vision and Image Understanding, 2010, 114, 827-834.	3.0	21
128	Discriminative Level Set for Contour Tracking. , 2010, , .		5
129	Image Set Classification Using Multi-layer Multiple Instance Learning with Application to Cannabis Website Classification. , 2010, , .		1
130	Robust infrared vehicle tracking across target pose change using $L_{1/2}$ regularization. , 2010, , .		19
131	Compact visual codebook for action recognition. , 2010, , .		4
132	Mammographic image classification using histogram intersection. , 2010, , .		17
133	Probabilistic branching node detection using AdaBoost and hybrid local features. , 2010, , .		2
134	Probabilistic branching node detection using hybrid local features. , 2009, , .		1
135	Learning based thumbnail cropping. , 2009, , .		10
136	Age regression from faces using random forests. , 2009, 2009, 2465-2468.		52
137	Sparse representation of cast shadows via $\ell_{1/2}$ -regularized least squares. , 2009, , .		9