Huchuan Lu

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.

196 papers	12,552 citations	56 h-index	109 g-index
211 ext. papers	16,534 ext. citations	5.8 avg, IF	7.33 L-index

#	Paper	IF	Citations
196	Feature Balance for Fine-Grained Object Classification in Aerial Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	1
195	Encoder deep interleaved network with multi-scale aggregation for RGB-D salient object detection. *Pattern Recognition*, **2022**, 128, 108666	7.7	1
194	Salient Object Detection with Image-level Binary Supervision. *Pattern Recognition*, **2022**, 108782	7.7	0
193	Teaching Teachers First and Then Student: Hierarchical Distillation to Improve Long-Tailed Object Recognition in Aerial Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	1
192	Self-generated Defocus Blur Detection via Dual Adversarial Discriminators **2021**,		4
191	Encoder Fusion Network with Co-Attention Embedding for Referring Image Segmentation **2021**,		3
190	Alpha-Refine: Boosting Tracking Performance by Precise Bounding Box Estimation **2021**,		26
189	**2021**,		30
188	Watching You: Global-guided Reciprocal Learning for Video-based Person Re-identification **2021**,		7
187	Transformer Tracking **2021**,		100
186	Deep mutual learning for visual object tracking. *Pattern Recognition*, **2021**, 112, 107796	7.7	15
185	Spatial context-aware network for salient object detection. *Pattern Recognition*, **2021**, 114, 107867	7.7	11
184	Learning Regression and Verification Networks for Robust Long-term Tracking. *International Journal of Computer Vision*, **2021**, 129, 2536-2547	10.6	4
183	Residual multi-task learning for facial landmark localization and expression recognition. *Pattern Recognition*, **2021**, 115, 107893	7.7	7
182	Learning Adaptive Attribute-Driven Representation for Real-Time RGB-T Tracking. *International Journal of Computer Vision*, **2021**, 129, 2714-2729	10.6	7
181	Looking for the Detail and Context Devils: High-Resolution Salient Object Detection. *IEEE Transactions on Image Processing*, **2021**, 30, 3204-3216	8.7	6
180	Jointly Modeling Motion and Appearance Cues for Robust RGB-T Tracking. *IEEE Transactions on Image Processing*, **2021**, 30, 3335-3347	8.7	14

179	PANet: Patch-Aware Network for Light Field Salient Object Detection. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	2
178	Learning to Detect Salient Object with Multi-source Weak Supervision. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	2
177	Defocus Blur Detection via Boosting Diversity of Deep Ensemble Networks. *IEEE Transactions on Image Processing*, **2021**, 30, 5426-5438	8.7	6
176	Deeply supervised group recursive saliency prediction. *Neurocomputing*, **2021**, 453, 636-644	5.4	
175	Center-Boundary Dual Attention for Oriented Object Detection in Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-14	8.1	11
174	Dynamic Context-Sensitive Filtering Network for Video Salient Object Detection **2021**,		6
173	Learning Spatio-Temporal Transformer for Visual Tracking **2021**,		53
172	LFNet: Light Field Fusion Network for Salient Object Detection. *IEEE Transactions on Image Processing*, **2020**,	8.7	32
171	Visual tracking by dynamic matching-classification network switching. *Pattern Recognition*, **2020**, 107, 107419	7.7	4
170	Global and local sensitivity guided key salient object re-augmentation for video saliency detection. *Pattern Recognition*, **2020**, 103, 107275	7.7	6
169	RAPNet: Residual Atrous Pyramid Network for Importance-Aware Street Scene Parsing. *IEEE Transactions on Image Processing*, **2020**,	8.7	12
168	Semantic Scene Labeling via Deep Nested Level Set. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-13	6.1	2
167	Deep Multiphase Level Set for Scene Parsing. *IEEE Transactions on Image Processing*, **2020**,	8.7	8
166	Residual Learning for Salient Object Detection. *IEEE Transactions on Image Processing*, **2020**,	8.7	17
165	Online visual tracking via cross-similarity-based siamese network. *Concurrency Computation Practice and Experience*, **2020**, 33, e5617	1.4	
164	Blind single image super-resolution with a mixture of deep networks. *Pattern Recognition*, **2020**, 102, 107169	7.7	12
163	Reverse Attention Based Residual Network for Salient Object Detection. *IEEE Transactions on Image Processing*, **2020**,	8.7	52
162	Segmentation based rotated bounding boxes prediction and image synthesizing for object detection of high resolution aerial images. *Neurocomputing*, **2020**, 388, 202-211	5.4	10

161	Feature Reintegration over Differential Treatment: A Top-down and Adaptive Fusion Network for RGB-D Salient Object Detection **2020**,		12
160	Dynamically-Passed Contextual Information Network for Saliency Detection. *Lecture Notes in Computer Science*, **2020**, 369-381	0.9	
159	Online Filtering Training Samples for Robust Visual Tracking **2020**,		3
158	An Improved Unsupervised Band Selection of Hyperspectral Images Based on Sparse Representation. *Studies in Computational Intelligence*, **2020**, 135-145	0.8	
157	CLIFFNet for Monocular Depth Estimation with Hierarchical Embedding Loss. *Lecture Notes in Computer Science*, **2020**, 316-331	0.9	4
156	Accurate RGB-D Salient Object Detection via Collaborative Learning. *Lecture Notes in Computer Science*, **2020**, 52-69	0.9	26
155	A Single Stream Network for Robust and Real-Time RGB-D Salient Object Detection. *Lecture Notes in Computer Science*, **2020**, 646-662	0.9	41
154	A Multistage Refinement Network for Salient Object Detection. *IEEE Transactions on Image Processing*, **2020**,	8.7	19
153	Dynamic imposter based online instance matching for person search. *Pattern Recognition*, **2020**, 100, 107120	7.7	5
152	Non-rigid object tracking via deep multi-scale spatial-temporal discriminative saliency maps. *Pattern Recognition*, **2020**, 100, 107130	7.7	23
151	Cooling-Shrinking Attack: Blinding the Tracker With Imperceptible Noises **2020**,		16
150	Bi-Directional Relationship Inferring Network for Referring Image Segmentation **2020**,		6
149	High-Performance Long-Term Tracking With Meta-Updater **2020**,		47
148	A2dele: Adaptive and Attentive Depth Distiller for Efficient RGB-D Salient Object Detection **2020**,		63
147	Introduction to the Special Section on Deep Learning in Video Enhancement and Evaluation: The New Frontier. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 3857-3858	6.4	
146	Defocus Blur Detection via Multi-Stream Bottom-Top-Bottom Network. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 1884-1897	13.3	27
145	Multi-scale Pyramid Pooling Network for salient object detection. *Neurocomputing*, **2019**, 333, 211-220	5.4	12
144	A hybrid-backward refinement model for salient object detection. *Neurocomputing*, **2019**, 358, 72-80	5.4	10

143	Online Visual Tracking **2019**,		4
142	Hyperfusion-Net: Hyper-densely reflective feature fusion for salient object detection. *Pattern Recognition*, **2019**, 93, 521-533	7.7	33
141	Online Single Person Tracking for Unmanned Aerial Vehicles: Benchmark and New Baseline **2019**,		1
140	Pose Invariant Embedding for Deep Person Re-identification. *IEEE Transactions on Image Processing*, **2019**,	8.7	186
139	Salient Object Detection with Recurrent Fully Convolutional Networks. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 1734-1746	13.3	94
138	Tensor Completion From One-Bit Observations. *IEEE Transactions on Image Processing*, **2019**, 28, 170-180	8.7	12
137	Language Person Search with Mutually Connected Classification Loss **2019**,		7
136	Language-aware weak supervision for salient object detection. *Pattern Recognition*, **2019**, 96, 106955	7.7	14
135	Deep Light-field-driven Saliency Detection from a Single View **2019**,		17
134	Visual Tracking Based on Local Model **2019**, 27-42		
133	Visual Tracking Based on Model Fusion **2019**, 43-60		
132	Depth-Induced Multi-Scale Recurrent Attention Network for Saliency Detection **2019**,		122
131	**2019**,		86
130	Visual Tracking via Adaptive Spatially-Regularized Correlation Filters **2019**,		165
129	Joint Learning of Saliency Detection and Weakly Supervised Semantic Segmentation **2019**,		10
128	Skimming-Perusal Tracking: A Framework for Real-Time and Robust Long-Term Tracking **2019**,		60
127	GradNet: Gradient-Guided Network for Visual Object Tracking **2019**,		103
126	Deep Learning for Light Field Saliency Detection **2019**,		39

125	Attentive Feedback Network for Boundary-Aware Salient Object Detection **2019**,		152
124	ROI Pooled Correlation Filters for Visual Tracking **2019**,		44
123	CapSal: Leveraging Captioning to Boost Semantics for Salient Object Detection **2019**,		44
122	Enhancing Diversity of Defocus Blur Detectors via Cross-Ensemble Network **2019**,		22
121	Towards High-Resolution Salient Object Detection **2019**,		57
120	Lightweight Deep Neural Network for Real-Time Visual Tracking with Mutual Learning **2019**,		2
119	Edge-Aware Convolution Neural Network Based Salient Object Detection. *IEEE Signal Processing Letters*, **2019**, 26, 114-118	3.2	29
118	Salient Object Detection with Lossless Feature Reflection and Weighted Structural Loss. *IEEE Transactions on Image Processing*, **2019**,	8.7	34
117	Deep gated attention networks for large-scale street-level scene segmentation. *Pattern Recognition*, **2019**, 88, 702-714	7.7	51
116	Multi attention module for visual tracking. *Pattern Recognition*, **2019**, 87, 80-93	7.7	39
115	Multi-Focus Image Fusion With a Natural Enhancement via a Joint Multi-Level Deeply Supervised Convolutional Neural Network. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019** , 29, 1102-1115	6.4	56
114	Hierarchical Cellular Automata for Visual Saliency. *International Journal of Computer Vision*, **2018**, 126, 751-770	10.6	34
113	Predicting human gaze with multi-level information. *Signal Processing*, **2018**, 147, 92-100	4.4	1
112	Subspace Clustering With K -Support Norm. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 302-313	6.4	1
111	Cross-view semantic projection learning for person re-identification. *Pattern Recognition*, **2018**, 75, 63-76	7.7	25
110	Spectral-spatial K-Nearest Neighbor approach for hyperspectral image classification. *Multimedia Tools and Applications*, **2018**, 77, 10419-10436	2.5	20
109	Constrained Superpixel Tracking. *IEEE Transactions on Cybernetics*, **2018**, 48, 1030-1041	10.2	25
108	Tracking With Static and Dynamic Structured Correlation Filters. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 2861-2869	6.4	12

107	Saliency Detection via Absorbing Markov Chain With Learnt Transition Probability. *IEEE Transactions on Image Processing*, **2018**, 27, 987-998	8.7	68
106	Exemplar-aided Salient Object Detection via Joint Latent Space Embedding. *IEEE Transactions on Image Processing*, **2018**,	8.7	4
105	Deep multi-level networks with multi-task learning for saliency detection. *Neurocomputing*, **2018**, 312, 229-238	5.4	8
104	Salient Object Detection by Lossless Feature Reflection **2018**,		15
103	Structured Siamese Network for Real-Time Visual Tracking. *Lecture Notes in Computer Science*, **2018** , 355-370	0.9	97
102	Deep Cross-Modal Projection Learning for Image-Text Matching. *Lecture Notes in Computer Science*, **2018**, 707-723	0.9	82
101	Video Person Re-identification by Temporal Residual Learning. *IEEE Transactions on Image Processing*, **2018**,	8.7	48
100	Deep visual tracking: Review and experimental comparison. *Pattern Recognition*, **2018**, 76, 323-338	7.7	288
99	Learning Spatial-Aware Regressions for Visual Tracking **2018**,		118
98	Correlation Tracking via Joint Discrimination and Reliability Learning **2018**,		99
97	A Bi-Directional Message Passing Model for Salient Object Detection **2018**,		184
96	Detect Globally, Refine Locally: A Novel Approach to Saliency Detection **2018**,		164
95	Deep Mutual Learning **2018**,		342
94	Progressive Attention Guided Recurrent Network for Salient Object Detection **2018**,		252
93	Defocus Blur Detection via Multi-stream Bottom-Top-Bottom Fully Convolutional Network **2018**,		37
92	Real-Time Actor-Critic Tracking. *Lecture Notes in Computer Science*, **2018**, 328-345	0.9	66
91	Boundary-Guided Feature Aggregation Network for Salient Object Detection. *IEEE Signal Processing Letters*, **2018**, 25, 1800-1804	3.2	22
90	An Unsupervised Game-Theoretic Approach to Saliency Detection. *IEEE Transactions on Image Processing*, **2018**,	8.7	22

89	Interactive Video Segmentation via Local Appearance Model. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 1491-1501	6.4	5
88	Visual tracking with structured patch-based model. *Image and Vision Computing*, **2017**, 60, 124-133	3.7	6
87	Salient Object Detection via Multiple Instance Learning. *IEEE Transactions on Image Processing*, **2017**, 26, 1911-1922	8.7	87
86	Dual Deep Network for Visual Tracking. *IEEE Transactions on Image Processing*, **2017**, 26, 2005-2015	8.7	74
85	Weighted Generalized Nearest Neighbor for Hyperspectral Image Classification. *IEEE Access*, **2017**, 5, 1496-1509	3.5	15
84	Co-saliency detection via partially absorbing random walk **2017**,		2
83	Medical Image Fusion and Denoising with Alternating Sequential Filter and Adaptive Fractional Order Total Variation. *IEEE Transactions on Instrumentation and Measurement*, **2017**, 66, 2283-2294	5.2	63
82	Person Re-Identification via Distance Metric Learning With Latent Variables. *IEEE Transactions on Image Processing*, **2017**, 26, 23-34	8.7	36
81	Co-Bootstrapping Saliency. *IEEE Transactions on Image Processing*, **2017**, 26, 414-425	8.7	18
80	Saliency detection via joint modeling global shape and local consistency. *Neurocomputing*, **2017**, 222, 81-90	5.4	12
79	Visual Tracking via Joint Discriminative Appearance Learning. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 2567-2577	6.4	10
78	Ranking Saliency. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2017**, 39, 1892-1904	13.3	76
77	Learning Uncertain Convolutional Features for Accurate Saliency Detection **2017**,		226
76	**2017**,		174
75	Learning to Detect Salient Objects with Image-Level Supervision **2017**,		302
74	A Stagewise Refinement Model for Detecting Salient Objects in Images **2017**,		199
73	Amulet: Aggregating Multi-level Convolutional Features for Salient Object Detection **2017**,		359
72	Visual Tracking via Random Walks on Graph Model. *IEEE Transactions on Cybernetics*, **2016**, 46, 2144-55	10.2	17

71	Combining motion and appearance cues for anomaly detection. *Pattern Recognition*, **2016**, 51, 443-452	7.7	81
70	Robust Visual Tracking via Least Soft-Threshold Squares. *IEEE Transactions on Circuits and Systems for Video Technology*, **2016**, 26, 1709-1721	6.4	55
69	Saliency detection via extreme learning machine. *Neurocomputing*, **2016**, 218, 103-112	5.4	15
68	Visual Tracking via Coarse and Fine Structural Local Sparse Appearance Models. *IEEE Transactions on Image Processing*, **2016**, 25, 4555-64	8.7	30
67	Hyperspectral images band selection using multi-dictionary based sparse representation **2016**,		3
66	Kernelized Subspace Ranking for Saliency Detection. *Lecture Notes in Computer Science*, **2016**, 450-466	0.9	27
65	Saliency Detection with Recurrent Fully Convolutional Networks. *Lecture Notes in Computer Science*, **2016**, 825-841	0.9	171
64	Fixation prediction with a combined model of bottom-up saliency and vanishing point **2016**,		3
63	Hyperspectral Image Classification via JCR and SVM Models With Decision Fusion. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 177-181	4.1	36
62	Video anomaly detection based on locality sensitive hashing filters. *Pattern Recognition*, **2016**, 59, 302-311	7.7	53
61	Pattern Mining Saliency. *Lecture Notes in Computer Science*, **2016**, 583-598	0.9	12
60	Vanishing point attracts gaze in free-viewing and visual search tasks. *Journal of Vision*, **2016**, 16, 18	0.4	7
59	Robust joint nearest subspace for hyperspectral image classification. *Remote Sensing Letters*, **2016**, 7, 915-924	2.3	2
58	STCT: Sequentially Training Convolutional Networks for Visual Tracking **2016**,		149
57	Multi-feature tracking via adaptive weights. *Neurocomputing*, **2016**, 207, 189-201	5.4	19
56	Visual tracking via shallow and deep collaborative model. *Neurocomputing*, **2016**, 218, 61-71	5.4	13
55	Saliency detection via sparse reconstruction and joint label inference in multiple features. *Neurocomputing*, **2015**, 155, 1-11	5.4	15
54	Pose Estimation Based on Pose Cluster and Candidates Recombination. *IEEE Transactions on Circuits and Systems for Video Technology*, **2015**, 25, 935-943	6.4	6

53	Salient object detection via global and local cues. *Pattern Recognition*, **2015**, 48, 3258-3267	7.7	76
52	Saliency region detection based on Markov absorption probabilities. *IEEE Transactions on Image Processing*, **2015**, 24, 1639-49	8.7	101
51	Salient object detection via bootstrap learning **2015**,		163
50	Visual Tracking via Weighted Local Cosine Similarity. *IEEE Transactions on Cybernetics*, **2015**, 45, 1838-50	10.2	61
49	Fast and Robust Object Tracking via Probability Continuous Outlier Model. *IEEE Transactions on Image Processing*, **2015**, 24, 5166-76	8.7	21
48	Visual Tracking via Structure Constrained Grouping. *IEEE Signal Processing Letters*, **2015**, 22, 794-798	3.2	8
47	Deep networks for saliency detection via local estimation and global search **2015**,		321
46	Visual Tracking with Fully Convolutional Networks **2015**,		501
45	Saliency detection via background and foreground seed selection. *Neurocomputing*, **2015**, 152, 359-368	5.4	93
44	Kernel collaborative face recognition. *Pattern Recognition*, **2015**, 48, 3025-3037	7.7	49
43	L2-RLS-Based Object Tracking. *IEEE Transactions on Circuits and Systems for Video Technology*, **2014**, 24, 1301-1309	6.4	50
42	Robust superpixel tracking. *IEEE Transactions on Image Processing*, **2014**, 23, 1639-51	8.7	240
41	Robust object tracking via sparse collaborative appearance model. *IEEE Transactions on Image Processing*, **2014**, 23, 2356-68	8.7	247
40	Online Visual Tracking via Two View Sparse Representation. *IEEE Signal Processing Letters*, **2014**, 21, 1031-1034	3.2	15
39	Saliency Detection with Multi-Scale Superpixels. *IEEE Signal Processing Letters*, **2014**, 21, 1035-1039	3.2	94
38	Robust Visual Tracking via Multiple Kernel Boosting With Affinity Constraints. *IEEE Transactions on Circuits and Systems for Video Technology*, **2014**, 24, 242-254	6.4	47
37	Human body segmentation via data-driven graph cut. *IEEE Transactions on Cybernetics*, **2014**, 44, 2099-108	10.2	14
36	Fast and effective color-based object tracking by boosted color distribution. *Pattern Analysis and Applications*, **2013**, 16, 647-661	2.3	7

35	Superpixel level object recognition under local learning framework. *Neurocomputing*, **2013**, 120, 203-213	5.4	6
34	Pose estimation with segmentation consistency. *IEEE Transactions on Image Processing*, **2013**, 22, 4040-8	8.7	8
33	On-line learning parts-based representation via incremental orthogonal projective non-negative matrix factorization. *Signal Processing*, **2013**, 93, 1608-1623	4.4	40
32	Online object tracking with sparse prototypes. *IEEE Transactions on Image Processing*, **2013**, 22, 314-25	8.7	327
31	Graph-Regularized Saliency Detection With Convex-Hull-Based Center Prior. *IEEE Signal Processing Letters*, **2013**, 20, 637-640	3.2	181
30	Bayesian saliency via low and mid level cues. *IEEE Transactions on Image Processing*, **2013**, 22, 1689-98	8.7	230
29	Saliency Detection via Graph-Based Manifold Ranking **2013**,		1140
28	Saliency Detection via Dense and Sparse Reconstruction **2013**,		389
27	Saliency Detection via Absorbing Markov Chain **2013**,		319
26	Least Soft-Threshold Squares Tracking **2013**,		148
25	Arbitrary body segmentation in static images. *Pattern Recognition*, **2012**, 45, 3402-3413	7.7	10
24	Segmenting human from photo images based on a coarse-to-fine scheme. *IEEE Transactions on Systems, Man, and Cybernetics*, **2012**, 42, 889-99		15
23	Visual tracking via adaptive structural local sparse appearance model **2012**,		169
22	Pixel-Wise Spatial Pyramid-Based Hybrid Tracking. *IEEE Transactions on Circuits and Systems for Video Technology*, **2012**, 22, 1365-1376	6.4	16
21	Fragment-based tracking using online multiple kernel learning **2012**,		1
20	Object Tracking via 2DPCA and ell_{1}-Regularization. *IEEE Signal Processing Letters*, **2012**, 19, 711-714	3.2	39
19	Robust object tracking via sparsity-based collaborative model **2012**,		444
18	FACE RECOGNITION BASED ON GPPBTF AND LBP WITH CLASSIFIER FUSION. *International Journal of Image and Graphics*, **2012**, 12, 1250011	0.5	

17	TRI-TRACKING: COMBINING THREE INDEPENDENT VIEWS FOR ROBUST VISUAL TRACKING. *International Journal of Image and Graphics*, **2012**, 12, 1250021	0.5	1
16	Saliency detection based on integration of boundary and soft-segmentation **2012**,		22
15	Two dimensional principal components of natural images and its application. *Neurocomputing*, **2011** , 74, 2745-2753	5.4	16
14	Arbitrary Body Segmentation With a Novel Graph Cuts-Based Algorithm. *IEEE Signal Processing Letters*, **2011**, 18, 753-756	3.2	7
13	Superpixel tracking **2011**,		71
12	Complementary Visual Tracking **2011**,		1
11	A co-training framework for visual tracking with multiple instance learning **2011**,		15
10	Incremental orthogonal projective non-negative matrix factorization and its applications **2011**,		2
9	Visual saliency detection based on Bayesian model **2011**,		63
8	Incremental MPCA for Color Object Tracking **2010**,		14
7	Robust tracking based on Boosted Color Soft Segmentation and ICA-R **2010**,		2
6	Bag of Features Tracking **2010**,		12
5	Object tracking by multi-cues spatial pyramid matching **2010**,		10
4	An effective method for detection and segmentation of the body of human in the view of a single stationary camera **2008**,		1
3	Head Detection and Tracking by Mean-Shift and Kalman Filter **2008**,		4
2	Automatic gender recognition based on pixel-pattern-based texture feature. *Journal of Real-Time Image Processing*, **2008**, 3, 109-116	1.9	30
1	Automatic Facial Expression Recognition. *Lecture Notes in Computer Science*, **2006**, 63-68	0.9	2