Huchuan Lu

List of Publications by Citations

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	Saliency Detection via Graph-Based Manifold Ranking **2013**,		1140
195	Visual Tracking with Fully Convolutional Networks **2015**,		501
194	Robust object tracking via sparsity-based collaborative model **2012**,		444
193	Saliency Detection via Dense and Sparse Reconstruction **2013**,		389
192	Amulet: Aggregating Multi-level Convolutional Features for Salient Object Detection **2017**,		359
191	Deep Mutual Learning **2018**,		342
190	Online object tracking with sparse prototypes. *IEEE Transactions on Image Processing*, **2013**, 22, 314-25	8.7	327
189	Deep networks for saliency detection via local estimation and global search **2015**,		321
188	Saliency Detection via Absorbing Markov Chain **2013**,		319
187	Learning to Detect Salient Objects with Image-Level Supervision **2017**,		302
186	Deep visual tracking: Review and experimental comparison. *Pattern Recognition*, **2018**, 76, 323-338	7.7	288
185	Progressive Attention Guided Recurrent Network for Salient Object Detection **2018**,		252
184	Robust object tracking via sparse collaborative appearance model. *IEEE Transactions on Image Processing*, **2014**, 23, 2356-68	8.7	247
183	Robust superpixel tracking. *IEEE Transactions on Image Processing*, **2014**, 23, 1639-51	8.7	240
182	Bayesian saliency via low and mid level cues. *IEEE Transactions on Image Processing*, **2013**, 22, 1689-98	8.7	230
181	Learning Uncertain Convolutional Features for Accurate Saliency Detection **2017**,		226
180	A Stagewise Refinement Model for Detecting Salient Objects in Images **2017**,		199

179	Pose Invariant Embedding for Deep Person Re-identification. *IEEE Transactions on Image Processing*, **2019**,	8.7	186
178	A Bi-Directional Message Passing Model for Salient Object Detection **2018**,		184
177	Graph-Regularized Saliency Detection With Convex-Hull-Based Center Prior. *IEEE Signal Processing Letters*, **2013**, 20, 637-640	3.2	181
176	**2017**,		174
175	Saliency Detection with Recurrent Fully Convolutional Networks. *Lecture Notes in Computer Science*, **2016**, 825-841	0.9	171
174	Visual tracking via adaptive structural local sparse appearance model **2012**,		169
173	Visual Tracking via Adaptive Spatially-Regularized Correlation Filters **2019**,		165
172	Detect Globally, Refine Locally: A Novel Approach to Saliency Detection **2018**,		164
171	Salient object detection via bootstrap learning **2015**,		163
170	Attentive Feedback Network for Boundary-Aware Salient Object Detection **2019**,		152
169	STCT: Sequentially Training Convolutional Networks for Visual Tracking **2016**,		149
168	Least Soft-Threshold Squares Tracking **2013**,		148
167	Depth-Induced Multi-Scale Recurrent Attention Network for Saliency Detection **2019**,		122
166	Learning Spatial-Aware Regressions for Visual Tracking **2018**,		118
165	GradNet: Gradient-Guided Network for Visual Object Tracking **2019**,		103
164	Saliency region detection based on Markov absorption probabilities. *IEEE Transactions on Image Processing*, **2015**, 24, 1639-49	8.7	101
163	Transformer Tracking **2021**,		100
162	Correlation Tracking via Joint Discrimination and Reliability Learning **2018**,		99

161	Structured Siamese Network for Real-Time Visual Tracking. *Lecture Notes in Computer Science*, **2018**, 355-370	0.9	97
160	Salient Object Detection with Recurrent Fully Convolutional Networks. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 1734-1746	13.3	94
159	Saliency Detection with Multi-Scale Superpixels. *IEEE Signal Processing Letters*, **2014**, 21, 1035-1039	3.2	94
158	Saliency detection via background and foreground seed selection. *Neurocomputing*, **2015**, 152, 359-368	5.4	93
157	Salient Object Detection via Multiple Instance Learning. *IEEE Transactions on Image Processing*, **2017**, 26, 1911-1922	8.7	87
156	**2019**,		86
155	Deep Cross-Modal Projection Learning for Image-Text Matching. *Lecture Notes in Computer Science*, **2018**, 707-723	0.9	82
154	Combining motion and appearance cues for anomaly detection. *Pattern Recognition*, **2016**, 51, 443-452	7.7	81
153	Salient object detection via global and local cues. *Pattern Recognition*, **2015**, 48, 3258-3267	7.7	76
152	Ranking Saliency. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2017**, 39, 1892-1904	13.3	76
151	Dual Deep Network for Visual Tracking. *IEEE Transactions on Image Processing*, **2017**, 26, 2005-2015	8.7	74
150	Superpixel tracking **2011**,		71
149	Saliency Detection via Absorbing Markov Chain With Learnt Transition Probability. *IEEE Transactions on Image Processing*, **2018**, 27, 987-998	8.7	68
148	Real-Time Actor-Critic Tracking. *Lecture Notes in Computer Science*, **2018**, 328-345	0.9	66
147	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
146	Visual saliency detection based on Bayesian model **2011**,		63
145	A2dele: Adaptive and Attentive Depth Distiller for Efficient RGB-D Salient Object Detection **2020**,		63
144	Visual Tracking via Weighted Local Cosine Similarity. *IEEE Transactions on Cybernetics*, **2015**, 45, 1838-50	10.2	61

143	Skimming-Perusal Tracking: A Framework for Real-Time and Robust Long-Term Tracking **2019**,		60
142	Towards High-Resolution Salient Object Detection **2019**,		57
141	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
140	Robust Visual Tracking via Least Soft-Threshold Squares. *IEEE Transactions on Circuits and Systems for Video Technology*, **2016**, 26, 1709-1721	6.4	55
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138	Learning Spatio-Temporal Transformer for Visual Tracking **2021**,		53
137	Reverse Attention Based Residual Network for Salient Object Detection. *IEEE Transactions on Image Processing*, **2020**,	8.7	52
136	Deep gated attention networks for large-scale street-level scene segmentation. *Pattern Recognition*, **2019**, 88, 702-714	7.7	51
135	L2-RLS-Based Object Tracking. *IEEE Transactions on Circuits and Systems for Video Technology*, **2014**, 24, 1301-1309	6.4	50
134	Kernel collaborative face recognition. *Pattern Recognition*, **2015**, 48, 3025-3037	7.7	49
133	Video Person Re-identification by Temporal Residual Learning. *IEEE Transactions on Image Processing*, **2018**,	8.7	48
132	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
131	High-Performance Long-Term Tracking With Meta-Updater **2020**,		47
130	ROI Pooled Correlation Filters for Visual Tracking **2019**,		44
129	CapSal: Leveraging Captioning to Boost Semantics for Salient Object Detection **2019**,		44
128	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
127	On-line learning parts-based representation via incremental orthogonal projective non-negative matrix factorization. *Signal Processing*, **2013**, 93, 1608-1623	4.4	40
126	Object Tracking via 2DPCA and ell_{1}-Regularization. *IEEE Signal Processing Letters*, **2012**, 19, 711-714	3.2	39

125	Deep Learning for Light Field Saliency Detection **2019**,		39
124	Multi attention module for visual tracking. *Pattern Recognition*, **2019**, 87, 80-93	7.7	39
123	Defocus Blur Detection via Multi-stream Bottom-Top-Bottom Fully Convolutional Network **2018**,		37
122	Hyperspectral Image Classification via JCR and SVM Models With Decision Fusion. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 177-181	4.1	36
121	Person Re-Identification via Distance Metric Learning With Latent Variables. *IEEE Transactions on Image Processing*, **2017**, 26, 23-34	8.7	36
120	Hierarchical Cellular Automata for Visual Saliency. *International Journal of Computer Vision*, **2018**, 126, 751-770	10.6	34
119	Salient Object Detection with Lossless Feature Reflection and Weighted Structural Loss. *IEEE Transactions on Image Processing*, **2019**,	8.7	34
118	Hyperfusion-Net: Hyper-densely reflective feature fusion for salient object detection. *Pattern Recognition*, **2019**, 93, 521-533	7.7	33
117	LFNet: Light Field Fusion Network for Salient Object Detection. *IEEE Transactions on Image Processing*, **2020**,	8.7	32
116	Visual Tracking via Coarse and Fine Structural Local Sparse Appearance Models. *IEEE Transactions on Image Processing*, **2016**, 25, 4555-64	8.7	30
115	Automatic gender recognition based on pixel-pattern-based texture feature. *Journal of Real-Time Image Processing*, **2008**, 3, 109-116	1.9	30
114	**2021**,		30
113	Edge-Aware Convolution Neural Network Based Salient Object Detection. *IEEE Signal Processing Letters*, **2019**, 26, 114-118	3.2	29
112	Kernelized Subspace Ranking for Saliency Detection. *Lecture Notes in Computer Science*, **2016**, 450-466	0.9	27
111	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
110	Alpha-Refine: Boosting Tracking Performance by Precise Bounding Box Estimation **2021**,		26
109	Accurate RGB-D Salient Object Detection via Collaborative Learning. *Lecture Notes in Computer Science*, **2020**, 52-69	0.9	26
108	Cross-view semantic projection learning for person re-identification. *Pattern Recognition*, **2018**, 75, 63-76	7.7	25

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105	Saliency detection based on integration of boundary and soft-segmentation **2012**,		22
104	Enhancing Diversity of Defocus Blur Detectors via Cross-Ensemble Network **2019**,		22
103	Boundary-Guided Feature Aggregation Network for Salient Object Detection. *IEEE Signal Processing Letters*, **2018**, 25, 1800-1804	3.2	22
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101	Fast and Robust Object Tracking via Probability Continuous Outlier Model. *IEEE Transactions on Image Processing*, **2015**, 24, 5166-76	8.7	21
100	Spectral-spatial K-Nearest Neighbor approach for hyperspectral image classification. *Multimedia Tools and Applications*, **2018**, 77, 10419-10436	2.5	20
99	A Multistage Refinement Network for Salient Object Detection. *IEEE Transactions on Image Processing*, **2020**,	8.7	19
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96	Visual Tracking via Random Walks on Graph Model. *IEEE Transactions on Cybernetics*, **2016**, 46, 2144-55	10.2	17
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91	Cooling-Shrinking Attack: Blinding the Tracker With Imperceptible Noises **2020**,		16
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84	Salient Object Detection by Lossless Feature Reflection **2018**,		15
83	Deep mutual learning for visual object tracking. *Pattern Recognition*, **2021**, 112, 107796	7.7	15
82	Language-aware weak supervision for salient object detection. *Pattern Recognition*, **2019**, 96, 106955	7.7	14
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70	Feature Reintegration over Differential Treatment: A Top-down and Adaptive Fusion Network for RGB-D Salient Object Detection **2020**,		12
69	Pattern Mining Saliency. *Lecture Notes in Computer Science*, **2016**, 583-598	0.9	12
68	Spatial context-aware network for salient object detection. *Pattern Recognition*, **2021**, 114, 107867	7.7	11
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66	A hybrid-backward refinement model for salient object detection. *Neurocomputing*, **2019**, 358, 72-80	5.4	10
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61	Joint Learning of Saliency Detection and Weakly Supervised Semantic Segmentation **2019**,		10
60	Visual Tracking via Structure Constrained Grouping. *IEEE Signal Processing Letters*, **2015**, 22, 794-798	3.2	8
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52	Residual multi-task learning for facial landmark localization and expression recognition. *Pattern Recognition*, **2021**, 115, 107893	7.7	7
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41	Interactive Video Segmentation via Local Appearance Model. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 1491-1501	6.4	5
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31	Fixation prediction with a combined model of bottom-up saliency and vanishing point **2016**,		3
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29	Online Filtering Training Samples for Robust Visual Tracking **2020**,		3
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