Stan Sclaroff

List of Publications by Year
in descending order

74 papers	3,718 citations	331670 21 h-index	377865 34 g-index
77 all docs	77 docs citations	77 times ranked	3041 citing authors

#	Article	IF	Citations
1	Saliency Detection: A Boolean Map Approach. , 2013, , .		358
2	Top-Down Neural Attention by Excitation Backprop. International Journal of Computer Vision, 2018, 126, 1084-1102.	15.6	350
3	Minimum Barrier Salient Object Detection at 80 FPS. , 2015, , .		313
4	Automated camera layout to satisfy task-specific and floor plan-specific coverage requirements. Computer Vision and Image Understanding, 2006, 103, 156-169.	4.7	186
5	Skin color-based video segmentation under time-varying illumination. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 862-877.	13.9	180
6	Multilevel Language and Vision Integration for Text-to-Clip Retrieval. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9062-9069.	4.9	172
7	Object, Scene and Actions: Combining Multiple Features for Human Action Recognition. Lecture Notes in Computer Science, 2010, , 494-507.	1.3	157
8	Unifying Textual and Visual Cues for Content-Based Image Retrieval on the World Wide Web. Computer Vision and Image Understanding, 1999, 75, 86-98.	4.7	104
9	Top-Down Neural Attention by Excitation Backprop. Lecture Notes in Computer Science, 2016, , 543-559.	1.3	104
10	Decoding Children's Social Behavior. , 2013, , .		103
11	Mining frequent arrangements of temporal intervals. Knowledge and Information Systems, 2009, 21, 133-171.	3.2	90
12	Deformable prototypes for encoding shape categories in image databases. Pattern Recognition, 1997, 30, 627-641.	8.1	82
13	Real-Time Semantic Segmentation With Fast Attention. IEEE Robotics and Automation Letters, 2021, 6, 263-270.	5.1	78
14	Learning actions from the Web. , 2009, , .		73
15	MIHash: Online Hashing with Mutual Information. , 2017, , .		71
16	Unconstrained Salient Object Detection via Proposal Subset Optimization. , 2016, , .		69
17	Action Recognition and Localization by Hierarchical Space-Time Segments. , 2013, , .		64
18	Salient Object Subitizing. , 2015, , .		59

#	Article	IF	Citations
19	Hashing with Mutual Information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2424-2437.	13.9	57
20	Adaptive Hashing for Fast Similarity Search. , 2015, , .		56
21	3D Human Motion Tracking with a Coordinated Mixture ofÂFactor Analyzers. International Journal of Computer Vision, 2010, 87, 170-190.	15.6	52
22	Online Multi-person Tracking by Tracker Hierarchy. , 2012, , .		52
23	Simultaneous Localization and Recognition of Dynamic Hand Gestures. , 2005, , .		51
24	Comparing random forest approaches to segmenting and classifyingÂgestures. Image and Vision Computing, 2017, 58, 86-95.	4.5	47
25	Hashing as Tie-Aware Learning to Rank. , 2018, , .		47
26	Combining Generative and Discriminative Models in a Framework for Articulated Pose Estimation. International Journal of Computer Vision, 2006, 67, 251-276.	15.6	44
27	Simultaneous Learning of Nonlinear Manifold and Dynamical Models for High-dimensional Time Series. , 2007, , .		38
28	Multi-scale 3D scene flow from binocular stereo sequences. Computer Vision and Image Understanding, 2008, 110, 75-90.	4.7	37
29	Online supervised hashing. Computer Vision and Image Understanding, 2017, 156, 162-173.	4.7	37
30	Active blobs: region-based, deformable appearance models. Computer Vision and Image Understanding, 2003, 89, 197-225.	4.7	35
31	Space-time tree ensemble for action recognition. , 2015, , .		35
32	Monocular Tracking of 3D Human Motion with a Coordinated Mixture of Factor Analyzers. Lecture Notes in Computer Science, 2006, , 137-150.	1.3	30
33	Excitation Backprop for RNNs. , 2018, , .		30
34	Exploiting phonological constraints for handshape inference in ASL video. , 2011, , .		27
35	Coupling detection and data association for multiple object tracking. , 2012, , .		27
36	Hankelet-based dynamical systems modeling for 3D action recognition. Image and Vision Computing, 2015, 44, 29-43.	4.5	26

#	ARTICLE	IF	CITATIONS
37	Detecting Objects of Variable Shape Structure With Hidden State Shape Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 477-492.	13.9	25
38	Web-Based Classifiers for Human Action Recognition. IEEE Transactions on Multimedia, 2012, 14, 1031-1045.	7.2	24
39	Automatic 2D Hand Tracking in Video Sequences. , 2005, , .		23
40	Deformable model-guided region split and merge of image regions. Image and Vision Computing, 2004, 22, 343-354.	4.5	22
41	Explainable Deep Classification Models for Domain Generalization. , 2021, , .		19
42	A Unified Approach for Physical and Geometric Modeling for Graphics and Animation. Computer Graphics Forum, 1992, 11, 129-138.	3.0	18
43	Layered Graphical Models for Tracking Partially Occluded Objects. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1758-1775.	13.9	17
44	A framework for heading-guided recognition of human activity. Computer Vision and Image Understanding, 2003, 91, 335-367.	4.7	16
45	Guided Zoom: Zooming into Network Evidence to Refine Fine-Grained Model Decisions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4196-4202.	13.9	15
46	Salient Object Subitizing. International Journal of Computer Vision, 2017, 124, 169-186.	15.6	14
47	Language Features Matter: Effective Language Representations for Vision-Language Tasks. , 2019, , .		14
48	Periodic Motion Detection and Estimation via Space-Time Sampling. , 2005, , .		13
49	Multiplicative kernels: Object detection, segmentation and pose estimation. , 2008, , .		13
50	Joint Alignment and Modeling of Correlated Behavior Streams. , 2013, , .		13
51	Multi-Scale 3D Scene Flow from Binocular Stereo Sequences. , 2005, , .		12
52	Layered graphical models for tracking partially-occluded objects. , 2008, , .		12
53	Space-Time Tree Ensemble for Action Recognition and Localization. International Journal of Computer Vision, 2018, 126, 314-332.	15.6	11
54	Excitation Dropout: Encouraging Plasticity in Deep Neural Networks. International Journal of Computer Vision, 2021, 129, 1139-1152.	15.6	11

#	Article	IF	Citations
55	Revisiting Image-Language Networks for Open-Ended Phrase Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2155-2167.	13.9	9
56	Handsignals Recognition From Video Using 3D Motion Capture Data. , 2005, , .		8
57	Predicting Foreground Object Ambiguity and Efficiently Crowdsourcing the Segmentation(s). International Journal of Computer Vision, 2018, 126, 714-730.	15.6	8
58	Context-Sensitive Prediction of Facial Expressivity Using Multimodal Hierarchical Bayesian Neural Networks. , 2018, , .		8
59	Learning parameterized histogram kernels on the simplex manifold for image and action classification. , 2011, , .		7
60	Poselet-Based Contextual Rescoring for Human Pose Estimation via Pictorial Structures. International Journal of Computer Vision, 2016, 118, 49-64.	15.6	7
61	ClassMap: Efficient Multiclass Recognition via Embeddings. , 2007, , .		6
62	Affect-driven Learning Outcomes Prediction in Intelligent Tutoring Systems. , 2019, , .		6
63	Distance to Deformable Prototypes: Encoding Shape Categories for Efficient Search. Series on Software Engineering and Knowledge Engineering, 1998, , 149-164.	0.1	6
64	Visual Saliency: From Pixel-Level to Object-Level Analysis. , 2019, , .		5
65	Reducing JointBoost-based multiclass classification to proximity search. , 2009, , .		4
66	3D pose estimation of bats in the wild. , 2014, , .		3
67	Is a detector only good for detection?. , 2009, , .		2
68	Reducing JointBoost-based multiclass classification to proximity search. , 2009, , .		2
69	Fast vision-based scene modeling for augmented reality in unprepared man-made environments. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 525-537.	1.4	1
70	Discovering useful parts for pose estimation in sparsely annotated datasets. , 2016, , .		1
71	Cost-Aware Fine-Grained Recognition for IoTs Based on Sequential Fixations. , 2019, , .		1
72	Index trees for accelerating deformable template matching. Pattern Recognition Letters, 2002, 23, 1483-1493.	4.2	0

#	ARTICLE	IF	CITATIONS
73	Object Recognition and Localization Via Spatial Instance Embedding. , 2010, , .		0
74	An alignment based similarity measure for hand detection in cluttered sign language video. , 2009, , .		0