Jitendra Malik

List of Publications by Year
in descending order

46 papers	17,047 citations	218592 26 h-index	414303 32 g-index
47 all docs	47 docs citations	47 times ranked	10845 citing authors

#	Article	IF	Citations
1	Contour Detection and Hierarchical Image Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 898-916.	9.7	4,034
2	Learning to detect natural image boundaries using local brightness, color, and texture cues. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 530-549.	9.7	1,918
3	Representing and Recognizing the Visual Appearance of Materials using Three-dimensional Textons. , 2001, 43, 29-44.		1,225
4	Large Displacement Optical Flow: Descriptor Matching in Variational Motion Estimation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 500-513.	9.7	1,063
5	Spectral grouping using the nystrom method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 214-225.	9.7	994
6	Semantic contours from inverse detectors. , 2011, , .		925
7	Contour and Texture Analysis for Image Segmentation. International Journal of Computer Vision, 2001, 43, 7-27.	10.9	831
8	Preattentive texture discrimination with early vision mechanisms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 923.	0.8	814
9	A real-time computer vision system for vehicle tracking and traffic surveillance. Transportation Research Part C: Emerging Technologies, 1998, 6, 271-288.	3.9	463
10	Shape, Illumination, and Reflectance from Shading. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1670-1687.	9.7	456
11	Efficient shape matching using shape contexts. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1832-1837.	9.7	340
12	From contours to regions: An empirical evaluation. , 2009, , .		304
13	Using contours to detect and localize junctions in natural images. , 2008, , .		289
14	Interpreting line drawings of curved objects. International Journal of Computer Vision, 1987, 1, 73-103.	10.9	278
15	A Quantitative Spatiotemporal Atlas of Gene Expression in the Drosophila Blastoderm. Cell, 2008, 133, 364-374.	13.5	263
16	Robust multiple car tracking with occlusion reasoning. Lecture Notes in Computer Science, 1994, , 189-196.	1.0	252
17	Action recognition from a distributed representation of pose and appearance. , 2011, , .		215
18	Recovering 3D human body configurations using shape contexts. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1052-1062.	9.7	213

#	Article	IF	Citations
19	When is scene identification just texture recognition?. Vision Research, 2004, 44, 2301-2311.	0.7	196
20	Object detection using a max-margin Hough transform. , 2009, , .		192
21	Indoor Scene Understanding with RGB-D Images: Bottom-up Segmentation, Object Detection and Semantic Segmentation. International Journal of Computer Vision, 2015, 112, 133-149.	10.9	182
22	Robust computation of optical flow in a multi-scale differential framework. International Journal of Computer Vision, 1995, 14, 67-81.	10.9	177
23	Computing Local Surface Orientation and Shape from Texture for Curved Surfaces. International Journal of Computer Vision, 1997, 23, 149-168.	10.9	162
24	Twist Based Acquisition and Tracking of Animal and Human Kinematics. International Journal of Computer Vision, 2004, 56, 179-194.	10.9	156
25	Computational framework for determining stereo correspondence from a set of linear spatial filters. Image and Vision Computing, 1992, 10, 699-708.	2.7	121
26	Three-dimensional morphology and gene expression in the Drosophila blastoderm at cellular resolution I: data acquisition pipeline. Genome Biology, 2006, 7, R123.	13.9	121
27	Tracking as Repeated Figure/Ground Segmentation. , 2007, , .		117
28	Occlusion boundary detection and figure/ground assignment from optical flow. , 2011, , .		109
29	Three-dimensional morphology and gene expression in the Drosophila blastoderm at cellular resolution II: dynamics. Genome Biology, 2006, 7, R124.	13.9	94
30	Learning Probabilistic Models for Contour Completion in Natural Images. International Journal of Computer Vision, 2008, 77, 47-63.	10.9	81
31	Surface orientation from texture: Isotropy or homogeneity (or both)?. Vision Research, 1997, 37, 2283-2293.	0.7	69
32	Articulated Pose Estimation Using Discriminative Armlet Classifiers. , 2013, , .		60
33	Multi-scale object detection by clustering lines. , 2009, , .		58
34	Inferring spatial layout from a single image via depth-ordered grouping. , 2008, , .		46
35	Spectral Partitioning with Indefinite Kernels Using the Nyström Extension. Lecture Notes in Computer Science, 2002, , 531-542.	1.0	40
36	Automated multi-model reconstruction from single-particle electron microscopy data. Journal of Structural Biology, 2010, 170, 98-108.	1.3	34

#	Article	IF	Citations
37	A Probabilistic Multi-scale Model for Contour Completion Based on Image Statistics. Lecture Notes in Computer Science, 2002, , 312-327.	1.0	25
38	Stereoscopic occlusion junctions. Nature Neuroscience, 1999, 2, 840-843.	7.1	22
39	Object detection using a max-margin Hough transform. , 2009, , .		18
40	Classification of sidewalks in street view images. , 2013, , .		11
41	On binocularly viewed occlusion junctions. Lecture Notes in Computer Science, 1996, , 167-174.	1.0	10
42	Volumetric Semantic Segmentation Using Pyramid Context Features. , 2013, 2013, 3448-3455.		10
43	Coupling visualization and data analysis for knowledge discovery from multi-dimensional scientific data. Procedia Computer Science, 2010, 1, 1757-1764.	1.2	8
44	A Computational Model for Shape from Texture. Novartis Foundation Symposium, 1994, 184, 272-286.	1.2	4
45	How Little Do We Need for 3-D Shape Perception?. Perception, 2011, 40, 257-271.	0.5	4
46	VISION-BASED AUTOMATIC ROAD VEHICLE GUIDANCE. , 1999, , 817-854.		3