

# Jitendra Malik

## 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.

47  
papers

12,490  
citations

34  
h-index

47  
g-index

47  
ext. papers

14,772  
ext. citations

9.1  
avg, IF

6.64  
L-index

#	Paper	IF	Citations
47	Shape, Illumination, and Reflectance from Shading. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2015</b> , 37, 1670-87	13.3	305
46	Indoor Scene Understanding with RGB-D Images: Bottom-up Segmentation, Object Detection and Semantic Segmentation. <i>International Journal of Computer Vision</i> , <b>2015</b> , 112, 133-149	10.6	136
45	Classification of sidewalks in street view images <b>2013</b> ,		4
44	Volumetric Semantic Segmentation using Pyramid Context Features. <i>Proceedings of the IEEE International Conference on Computer Vision</i> , <b>2013</b> , 2013, 3448-3455	3.3	7
43	Articulated Pose Estimation Using Discriminative Armllet Classifiers <b>2013</b> ,		47
42	Action recognition from a distributed representation of pose and appearance <b>2011</b> ,		175
41	Occlusion boundary detection and figure/ground assignment from optical flow <b>2011</b> ,		88
40	Large displacement optical flow: descriptor matching in variational motion estimation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2011</b> , 33, 500-13	13.3	847
39	Contour detection and hierarchical image segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2011</b> , 33, 898-916	13.3	2840
38	How little do we need for 3-D shape perception?. <i>Perception</i> , <b>2011</b> , 40, 257-71	1.2	4
37	Semantic contours from inverse detectors <b>2011</b> ,		539
36	Automated multi-model reconstruction from single-particle electron microscopy data. <i>Journal of Structural Biology</i> , <b>2010</b> , 170, 98-108	3.4	30
35	Coupling visualization and data analysis for knowledge discovery from multi-dimensional scientific data. <i>Procedia Computer Science</i> , <b>2010</b> , 1, 1757-1764	1.6	5
34	Multi-scale object detection by clustering lines <b>2009</b> ,		45
33	From contours to regions: An empirical evaluation <b>2009</b> ,		232
32	Object detection using a max-margin Hough transform <b>2009</b> ,		137
31	A quantitative spatiotemporal atlas of gene expression in the Drosophila blastoderm. <i>Cell</i> , <b>2008</b> , 133, 364-74	56.2	218

30	Inferring spatial layout from a single image via depth-ordered grouping <b>2008</b> ,		34
29	<b>2008</b> ,		220
28	Learning Probabilistic Models for Contour Completion in Natural Images. <i>International Journal of Computer Vision</i> , <b>2008</b> , 77, 47-63	10.6	64
27	Tracking as Repeated Figure/Ground Segmentation <b>2007</b> ,		101
26	Three-dimensional morphology and gene expression in the Drosophila blastoderm at cellular resolution I: data acquisition pipeline. <i>Genome Biology</i> , <b>2006</b> , 7, R123	18.3	100
25	Three-dimensional morphology and gene expression in the Drosophila blastoderm at cellular resolution II: dynamics. <i>Genome Biology</i> , <b>2006</b> , 7, R124	18.3	75
24	Recovering 3D human body configurations using shape contexts. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 1052-62	13.3	182
23	Shape Matching and Object Recognition. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 483-507	0.9	22
22	Efficient shape matching using shape contexts. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2005</b> , 27, 1832-7	13.3	250
21	Twist Based Acquisition and Tracking of Animal and Human Kinematics. <i>International Journal of Computer Vision</i> , <b>2004</b> , 56, 179-194	10.6	130
20	When is scene identification just texture recognition?. <i>Vision Research</i> , <b>2004</b> , 44, 2301-11	2.1	138
19	Spectral grouping using the Nyström method. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2004</b> , 26, 214-25	13.3	754
18	Learning to detect natural image boundaries using local brightness, color, and texture cues. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2004</b> , 26, 530-49	13.3	1451
17	A Probabilistic Multi-scale Model for Contour Completion Based on Image Statistics. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 312-327	0.9	16
16	Spectral Partitioning with Indefinite Kernels Using the Nyström Extension. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 531-542	0.9	24
15	Representing and Recognizing the Visual Appearance of Materials using Three-dimensional Textons <b>2001</b> , 43, 29-44		959
14	Contour and Texture Analysis for Image Segmentation. <i>International Journal of Computer Vision</i> , <b>2001</b> , 43, 7-27	10.6	596
13	Stereoscopic occlusion junctions. <i>Nature Neuroscience</i> , <b>1999</b> , 2, 840-3	25.5	22

12	VISION-BASED AUTOMATIC ROAD VEHICLE GUIDANCE <b>1999</b> , 817-854		2
11	A real-time computer vision system for vehicle tracking and traffic surveillance. <i>Transportation Research Part C: Emerging Technologies</i> , <b>1998</b> , 6, 271-288	8.4	335
10	Surface orientation from texture: isotropy or homogeneity (or both)?. <i>Vision Research</i> , <b>1997</b> , 37, 2283-932.1		52
9	Computing Local Surface Orientation and Shape from Texture for Curved Surfaces. <i>International Journal of Computer Vision</i> , <b>1997</b> , 23, 149-168	10.6	109
8	On binocularly viewed occlusion junctions. <i>Lecture Notes in Computer Science</i> , <b>1996</b> , 167-174	0.9	5
7	Robust computation of optical flow in a multi-scale differential framework. <i>International Journal of Computer Vision</i> , <b>1995</b> , 14, 67-81	10.6	129
6	A computational model for shape from texture. <i>Novartis Foundation Symposium</i> , <b>1994</b> , 184, 272-83; discussion 283-6, 330-8		0
5	Robust multiple car tracking with occlusion reasoning. <i>Lecture Notes in Computer Science</i> , <b>1994</b> , 189-196	0.9	107
4	Computational framework for determining stereo correspondence from a set of linear spatial filters. <i>Image and Vision Computing</i> , <b>1992</b> , 10, 699-708	3.7	82
3	Preattentive texture discrimination with early vision mechanisms. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>1990</b> , 7, 923-32	1.8	629
2	Interpreting line drawings of curved objects. <i>International Journal of Computer Vision</i> , <b>1987</b> , 1, 73-103	10.6	226
1	Object detection using a max-margin Hough transform		17