

# Michal Irani

## List of Publications by Citations

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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.

43  
papers

6,052  
citations

29  
h-index

43  
g-index

43  
ext. papers

7,402  
ext. citations

5.8  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
43	Improving resolution by image registration. <i>Graphical Models</i> , <b>1991</b> , 53, 231-239		975
42	Super-resolution from a single image <b>2009</b> ,		919
41	Matching Local Self-Similarities across Images and Videos <b>2007</b> ,		586
40	Motion Analysis for Image Enhancement: Resolution, Occlusion, and Transparency. <i>Journal of Visual Communication and Image Representation</i> , <b>1993</b> , 4, 324-335	2.7	554
39	Space-time completion of video. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2007</b> , 29, 463-76	13.3	448
38	<b>2008</b> ,		335
37	Detecting Irregularities in Images and in Video. <i>International Journal of Computer Vision</i> , <b>2007</b> , 74, 17-31	10.6	265
36	Computing occluding and transparent motions. <i>International Journal of Computer Vision</i> , <b>1994</b> , 12, 5-16	10.6	249
35	Zero-Shot Super-Resolution Using Deep Internal Learning <b>2018</b> ,		244
34	Internal statistics of a single natural image <b>2011</b> ,		160
33	Nonparametric Blind Super-resolution <b>2013</b> ,		138
32	Efficient representations of video sequences and their applications. <i>Signal Processing: Image Communication</i> , <b>1996</b> , 8, 327-351	2.8	133
31	Feature-Based Sequence-to-Sequence Matching. <i>International Journal of Computer Vision</i> , <b>2006</b> , 68, 53-64	10.6	91
30	Statistical analysis of dynamic actions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2006</b> , 28, 1530-5	13.3	70
29	Multi-Frame Correspondence Estimation Using Subspace Constraints. <i>International Journal of Computer Vision</i> , <b>2002</b> , 48, 173-194	10.6	69
28	Super-resolved spatially encoded single-scan 2D MRI. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1594-600	10.4	62
27	Combining the power of Internal and External denoising <b>2013</b> ,		60

26	Co-segmentation by Composition <b>2013</b> ,		60
25	Separating Signal from Noise Using Patch Recurrence across Scales <b>2013</b> ,		52
24	Space-time super-resolution from a single video <b>2011</b> ,		52
23	. <i>International Journal of Computer Vision</i> , <b>2002</b> , 48, 39-51	10.6	49
22	AIM 2019 Challenge on Real-World Image Super-Resolution: Methods and Results <b>2019</b> ,		49
21	Video compression using mosaic representations. <i>Signal Processing: Image Communication</i> , <b>1995</b> , 7, 529-552		46
20	Detecting and tracking multiple moving objects using temporal integration. <i>Lecture Notes in Computer Science</i> , <b>1992</b> , 282-287	0.9	42
19	Blind dehazing using internal patch recurrence <b>2016</b> ,		41
18	InGAN: Capturing and Retargeting the DNA of a Natural Image <b>2019</b> ,		35
17	Non-uniform Blind Deblurring by Reblurring <b>2017</b> ,		33
16	Convergent evolution of face spaces across human face-selective neuronal groups and deep convolutional networks. <i>Nature Communications</i> , <b>2019</b> , 10, 4934	17.4	32
15	Factorization with Uncertainty. <i>International Journal of Computer Vision</i> , <b>2002</b> , 49, 101-116	10.6	32
14	Regenerative morphing <b>2010</b> ,		29
13	What Is a Good Image Segment? A Unified Approach to Segment Extraction. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 30-44	0.9	28
12	Parallax geometry of pairs of points for 3D scene analysis. <i>Lecture Notes in Computer Science</i> , <b>1996</b> , 17-30.	0.9	28
11	Revealing and modifying non-local variations in a single image. <i>ACM Transactions on Graphics</i> , <b>2015</b> , 34, 1-11	7.6	21
10	Detecting and sketching the common <b>2010</b> ,		21
9	Needle-Match: Reliable Patch Matching under High Uncertainty <b>2016</b> ,		10

8	Direct Recovery of Planar-Parallax from Multiple Frames. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 85-99	0.9	9
7	Across Scales and Across Dimensions: Temporal Super-Resolution Using Deep Internal Learning. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 52-68	0.9	8
6	On Single-Sequence and Multi-Sequence Factorizations. <i>International Journal of Computer Vision</i> , <b>2006</b> , 67, 313-326	10.6	7
5	Perceptual Dominance in Brief Presentations of Mixed Images: Human Perception vs. Deep Neural Networks. <i>Frontiers in Computational Neuroscience</i> , <b>2018</b> , 12, 57	3.5	5
4	Robust recovery of ego-motion. <i>Lecture Notes in Computer Science</i> , <b>1993</b> , 371-378	0.9	4
3	Self-Supervised Natural Image Reconstruction and Large-Scale Semantic Classification from Brain Activity.. <i>NeuroImage</i> , <b>2022</b> , 119121	7.9	1
2	Seeing the Invisible and Predicting the Unexpected. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 7-8	0.9	
1	Blind visual inference by composition. <i>Pattern Recognition Letters</i> , <b>2019</b> , 124, 39-54	4.7	