

# Nahum Kiryati

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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.

94  
papers

2,834  
citations

27  
h-index

52  
g-index

101  
ext. papers

3,304  
ext. citations

4.2  
avg, IF

4.95  
L-index

#	Paper	IF	Citations
94	Anisotropic neural deblurring for MRI acceleration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2021</b> , 1	3.9	1
93	Dataset Growth in Medical Image Analysis Research. <i>Journal of Imaging</i> , <b>2021</b> , 7,	3.1	2
92	Automatic Segmentation of White Matter Tracts Using Multiple Brain MRI Sequences <b>2020</b> ,		2
91	V-Net Light - Parameter-Efficient 3-D Convolutional Neural Network for Prostate MRI Segmentation <b>2020</b> ,		3
90	Motion magnification analysis of microscopy videos of biological cells. <i>PLoS ONE</i> , <b>2020</b> , 15, e0240127	3.7	1
89	Automatic Breast Lesion Classification by Joint Neural Analysis of Mammography and Ultrasound. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 125-135	0.9	2
88	Neural Segmentation of Seeding ROIs (sROIs) for Pre-Surgical Brain Tractography. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 1655-1667	11.7	2
87	Motion magnification analysis of microscopy videos of biological cells <b>2020</b> , 15, e0240127		
86	Motion magnification analysis of microscopy videos of biological cells <b>2020</b> , 15, e0240127		
85	Motion magnification analysis of microscopy videos of biological cells <b>2020</b> , 15, e0240127		
84	Motion magnification analysis of microscopy videos of biological cells <b>2020</b> , 15, e0240127		
83	Neural Denoising of Ultra-low Dose Mammography. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 215-225	0.9	
82	Classification of contrast-enhanced spectral mammography (CESM) images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2019</b> , 14, 249-257	3.9	17
81	Fully automatic detection of renal cysts in abdominal CT scans. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2018</b> , 13, 957-966	3.9	6
80	3-D Neural denoising for low-dose Coronary CT Angiography (CCTA). <i>Computerized Medical Imaging and Graphics</i> , <b>2018</b> , 70, 185-191	7.6	9
79	Unified Functional Framework for Restoration of Image Sequences Degraded by Atmospheric Turbulence. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 205-219	0.9	
78	Learning Real Noise for Ultra-Low Dose Lung CT Denoising. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 3-11	0.9	1

77	Patient-specific image denoising for ultra-low-dose CT-guided lung biopsies. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2017</b> , 12, 2145-2155	3.9	4
76	Crossing the Road Without Traffic Lights: An Android-Based Safety Device. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 534-544	0.9	1
75	People detection in top-view fisheye imaging <b>2017</b> ,		7
74	Computerized assessment of body image in anorexia nervosa and bulimia nervosa: comparison with standardized body image assessment tool. <i>Archives of Women's Mental Health</i> , <b>2017</b> , 20, 139-147	5	19
73	Optimization of two-compartment-exchange-model analysis for dynamic contrast-enhanced mri incorporating bolus arrival time. <i>Journal of Magnetic Resonance Imaging</i> , <b>2017</b> , 45, 237-249	5.6	2
72	Blind Space-Variant Single-Image Restoration of Defocus Blur. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 109-120	0.9	3
71	Fast and Easy Blind Deblurring Using an Inverse Filter and PROBE. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 269-281	0.9	3
70	A Neural Regression Framework for Low-Dose Coronary CT Angiography (CCTA) Denoising. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 102-110	0.9	1
69	Efficient Low-Dose CT Denoising by Locally-Consistent Non-Local Means (LC-NLM). <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 423-431	0.9	14
68	Progressive Blind Deconvolution. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 313-325	0.9	3
67	Mumford and Shah Model and Its Applications to Image Segmentation and Image Restoration <b>2015</b> , 1539-1597		3
66	Shape from Focus with Adaptive Focus Measure and High Order Derivatives <b>2015</b> ,		4
65	Road-Crossing Assistance by Traffic Flow Analysis. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 361-374	0.9	1
64	Progress in the restoration of image sequences degraded by atmospheric turbulence. <i>Pattern Recognition Letters</i> , <b>2014</b> , 48, 8-14	4.7	16
63	Mumford and Shah Model and Its Applications to Image Segmentation and Image Restoration <b>2014</b> , 1-52		4
62	A novel technique for infant length measurement based on stereoscopic vision. <i>Archives of Disease in Childhood</i> , <b>2014</b> , 99, 625-8	2.2	3
61	Multi-view Scene Flow Estimation: A View Centered Variational Approach. <i>International Journal of Computer Vision</i> , <b>2013</b> , 101, 6-21	10.6	67
60	Mumford and Shah Model and its Applications to Image Segmentation and Image Restoration <b>2011</b> , 1095-1157		16

59	Multi-view scene flow estimation: A view centered variational approach <b>2010</b> ,		39
58	Use of a double Fourier series for three-dimensional shape representation. <i>Computing (Vienna/New York)</i> , <b>2010</b> , 88, 173-191	2.2	3
57	Interactive level set segmentation for image-guided therapy <b>2009</b> ,		18
56	Dynamic Texture Detection Based on Motion Analysis. <i>International Journal of Computer Vision</i> , <b>2009</b> , 82, 48-63	10.6	37
55	On symmetry, perspectivity, and level-set-based segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2009</b> , 31, 1458-71	13.3	16
54	Atlas-based indexing of brain sections via 2-D to 3-D image registration. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2008</b> , 55, 147-56	5	13
53	Real-time abnormal motion detection in surveillance video <b>2008</b> ,		13
52	Shape-Based Mutual Segmentation. <i>International Journal of Computer Vision</i> , <b>2008</b> , 79, 231-245	10.6	19
51	Calculating geometric properties of three-dimensional objects from the spherical harmonic representation. <i>Pattern Recognition</i> , <b>2007</b> , 40, 756-770	7.7	4
50	Coarse to over-fine optical flow estimation. <i>Pattern Recognition</i> , <b>2007</b> , 40, 2496-2503	7.7	44
49	Prior-based Segmentation and Shape Registration in the Presence of Perspective Distortion. <i>International Journal of Computer Vision</i> , <b>2007</b> , 72, 309-328	10.6	31
48	Shape from Unstructured Light <b>2007</b> ,		6
47	Detecting Regions of Dynamic Texture <b>2007</b> , 848-859		22
46	Convergence of an Iterative Method for Variational Deconvolution and Impulsive Noise Removal. <i>Multiscale Modeling and Simulation</i> , <b>2007</b> , 6, 983-994	1.8	6
45	Deblurring of color images corrupted by impulsive noise. <i>IEEE Transactions on Image Processing</i> , <b>2007</b> , 16, 1101-11	8.7	81
44	Restoration of Images with Piecewise Space-Variant Blur <b>2007</b> , 533-544		20
43	Semi-blind image restoration via Mumford-Shah regularization. <i>IEEE Transactions on Image Processing</i> , <b>2006</b> , 15, 483-93	8.7	57
42	Piecewise-Smooth Dense Optical Flow via Level Sets. <i>International Journal of Computer Vision</i> , <b>2006</b> , 68, 111-124	10.6	44

41	Image Deblurring in the Presence of Impulsive Noise. <i>International Journal of Computer Vision</i> , <b>2006</b> , 70, 279-298	10.6	95
40	The point spread function of spiral CT. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 5307-22	3.8	31
39	Image Deblurring in the Presence of Salt-and-Pepper Noise. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 107-118	0.9	40
38	Color Image Deblurring with Impulsive Noise. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 49-60	0.9	8
37	Unlevel-Sets: Geometry and Prior-Based Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 50-61	0.9	27
36	Depth from gradient fields and control points: bias correction in photometric stereo. <i>Image and Vision Computing</i> , <b>2004</b> , 22, 681-694	3.7	44
35	Variational Pairing of Image Segmentation and Blind Restoration. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 166-177	0.9	25
34	Surface Area Estimation in Practice. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 358-367	0.9	1
33	MRI inter-slice reconstruction using super-resolution. <i>Magnetic Resonance Imaging</i> , <b>2002</b> , 20, 437-46	3.3	183
32	Texture mapping using surface flattening via multidimensional scaling. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2002</b> , 8, 198-207	4	154
31	MRI Inter-slice Reconstruction Using Super-Resolution. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 1204-1206		6
30	Multi-valued Images and Their Separation. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 129-141	0.9	1
29	Computational Surface Flattening: A Voxel-Based Approach. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 196-204	0.9	3
28	Towards Segmentation from Multiple Cues: Symmetry and Color. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 142-152	0.9	1
27	Heteroscedastic Hough Transform (HtHT): An Efficient Method for Robust Line Fitting in the Errors in the Variables Problem. <i>Computer Vision and Image Understanding</i> , <b>2000</b> , 78, 69-83	4.3	21
26	Randomized or probabilistic Hough transform: unified performance evaluation. <i>Pattern Recognition Letters</i> , <b>2000</b> , 21, 1157-1164	4.7	43
25	Separation of Transparent Layers using Focus. <i>International Journal of Computer Vision</i> , <b>2000</b> , 39, 25-39	10.6	74
24	Depth from Defocus vs. Stereo: How Different Really Are They?. <i>International Journal of Computer Vision</i> , <b>2000</b> , 39, 141-162	10.6	117

23	Polarization and statistical analysis of scenes containing a semireflector. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2000</b> , 17, 276-84	1.8	83
22	Computer-Based Assessment of Body Image Distortion in Anorexia Nervosa Patients. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 766-775	0.9	
21	Toward optimal structured light patterns. <i>Image and Vision Computing</i> , <b>1999</b> , 17, 87-97	3.7	73
20	Vision through semireflecting media: polarization analysis. <i>Optics Letters</i> , <b>1999</b> , 24, 1088-90	3	10
19	Detecting Symmetry in Grey Level Images: The Global Optimization Approach. <i>International Journal of Computer Vision</i> , <b>1998</b> , 29, 29-45	10.6	49
18	Length Estimation in 3-D Using Cube Quantization. <i>Journal of Mathematical Imaging and Vision</i> , <b>1998</b> , 8, 215-238	1.6	15
17	Guaranteed Convergence of the Hough Transform. <i>Computer Vision and Image Understanding</i> , <b>1998</b> , 69, 119-134	4.3	17
16	Range imaging with adaptive color structured light. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>1998</b> , 20, 470-480	13.3	199
15	On the magic of SLIDE. <i>Machine Vision and Applications</i> , <b>1997</b> , 9, 251-261	2.8	14
14	Analyzing and Synthesizing Images by Evolving Curves with the Osher-Sethian Method. <i>International Journal of Computer Vision</i> , <b>1997</b> , 24, 37-55	10.6	15
13	Digital representation schemes for 3d curves. <i>Pattern Recognition</i> , <b>1997</b> , 30, 1803-1816	7.7	30
12	Deriving Stopping Rules for the Probabilistic Hough Transform by Sequential Analysis. <i>Computer Vision and Image Understanding</i> , <b>1996</b> , 63, 512-526	4.3	70
11	Sub-pixel distance maps and weighted distance transforms. <i>Journal of Mathematical Imaging and Vision</i> , <b>1996</b> , 6, 223-233	1.6	74
10	FINDING THE SHORTEST PATHS ON SURFACES BY FAST GLOBAL APPROXIMATION AND PRECISE LOCAL REFINEMENT. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>1996</b> , 10, 643-656	1.1	25
9	Chain code probabilities and optimal length estimators for digitized three-dimensional curves. <i>Pattern Recognition</i> , <b>1995</b> , 28, 361-372	7.7	14
8	Skeletonization via Distance Maps and Level Sets. <i>Computer Vision and Image Understanding</i> , <b>1995</b> , 62, 382-391	4.3	108
7	Finding shortest paths on surfaces by fast global approximation and precise local refinement <b>1995</b> , 2356, 198		1
6	Length estimation in 3-D using cube quantization <b>1995</b> ,		6

5	Guaranteed convergence of the Hough transform <b>1995</b> , 2356, 90		2
4	Skeletonization via distance maps and level sets <b>1995</b> , 2356, 137		
3	Detecting grey level symmetry: The frequency domain approach. <i>Lecture Notes in Computer Science</i> , <b>1995</b> , 588-593	0.9	1
2	Estimating shortest paths and minimal distances on digitized three-dimensional surfaces. <i>Pattern Recognition</i> , <b>1993</b> , 26, 1623-1637	7.7	55
1	A probabilistic Hough transform. <i>Pattern Recognition</i> , <b>1991</b> , 24, 303-316	7.7	407