

Nahum Kiryati

List of Publications by Year in descending order

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93
papers

3,786
citations

172443

29
h-index

138468

58
g-index

101
all docs

101
docs citations

101
times ranked

2823
citing authors

#	ARTICLE	IF	CITATIONS
1	A probabilistic Hough transform. <i>Pattern Recognition</i> , 1991, 24, 303-316.	8.1	572
2	Range imaging with adaptive color structured light. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1998, 20, 470-480.	13.9	270
3	MRI inter-slice reconstruction using super-resolution. <i>Magnetic Resonance Imaging</i> , 2002, 20, 437-446.	1.8	258
4	Texture mapping using surface flattening via multidimensional scaling. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2002, 8, 198-207.	4.4	206
5	Depth from Defocus vs. Stereo: How Different Really Are They?. <i>International Journal of Computer Vision</i> , 2000, 39, 141-162.	15.6	163
6	Skeletonization via Distance Maps and Level Sets. <i>Computer Vision and Image Understanding</i> , 1995, 62, 382-391.	4.7	142
7	Image Deblurring in the Presence of Impulsive Noise. <i>International Journal of Computer Vision</i> , 2006, 70, 279-298.	15.6	119
8	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> , 2000, 17, 276.	1.5	102
9	Deblurring of Color Images Corrupted by Impulsive Noise. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 1101-1111.	9.8	101
10	Sub-pixel distance maps and weighted distance transforms. <i>Journal of Mathematical Imaging and Vision</i> , 1996, 6, 223-233.	1.3	97
11	Toward optimal structured light patterns. <i>Image and Vision Computing</i> , 1999, 17, 87-97.	4.5	96
12	Separation of Transparent Layers using Focus. <i>International Journal of Computer Vision</i> , 2000, 39, 25-39.	15.6	96
13	Multi-view Scene Flow Estimation: A View Centered Variational Approach. <i>International Journal of Computer Vision</i> , 2013, 101, 6-21.	15.6	82
14	Deriving Stopping Rules for the Probabilistic Hough Transform by Sequential Analysis. <i>Computer Vision and Image Understanding</i> , 1996, 63, 512-526.	4.7	77
15	Semi-blind image restoration via Mumford-Shah regularization. <i>IEEE Transactions on Image Processing</i> , 2006, 15, 483-493.	9.8	74
16	Detecting Symmetry in Grey Level Images: The Global Optimization Approach. <i>International Journal of Computer Vision</i> , 1998, 29, 29-45.	15.6	63
17	Estimating shortest paths and minimal distances on digitized three-dimensional surfaces. <i>Pattern Recognition</i> , 1993, 26, 1623-1637.	8.1	62
18	Randomized or probabilistic Hough transform: unified performance evaluation. <i>Pattern Recognition Letters</i> , 2000, 21, 1157-1164.	4.2	57

#	ARTICLE	IF	CITATIONS
19	Coarse to over-fine optical flow estimation. Pattern Recognition, 2007, 40, 2496-2503.	8.1	56
20	Piecewise-Smooth Dense Optical Flow via Level Sets. International Journal of Computer Vision, 2006, 68, 111-124.	15.6	51
21	Multi-view scene flow estimation: A view centered variational approach. , 2010, , .		48
22	Depth from gradient fields and control points: bias correction in photometric stereo. Image and Vision Computing, 2004, 22, 681-694.	4.5	47
23	Dynamic Texture Detection Based on Motion Analysis. International Journal of Computer Vision, 2009, 82, 48-63.	15.6	44
24	Prior-based Segmentation and Shape Registration in the Presence of Perspective Distortion. International Journal of Computer Vision, 2007, 72, 309-328.	15.6	43
25	Classification of contrast-enhanced spectral mammography (CESM) images. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 249-257.	2.8	38
26	The point spread function of spiral CT. Physics in Medicine and Biology, 2005, 50, 5307-5322.	3.0	35
27	Digital representation schemes for 3d curves. Pattern Recognition, 1997, 30, 1803-1816.	8.1	34
28	Unlevel-Sets: Geometry and Prior-Based Segmentation. Lecture Notes in Computer Science, 2004, , 50-61.	1.3	34
29	Detecting Regions of Dynamic Texture. , 2007, , 848-859.		34
30	Variational Pairing of Image Segmentation and Blind Restoration. Lecture Notes in Computer Science, 2004, , 166-177.	1.3	30
31	FINDING THE SHORTEST PATHS ON SURFACES BY FAST GLOBAL APPROXIMATION AND PRECISE LOCAL REFINEMENT. International Journal of Pattern Recognition and Artificial Intelligence, 1996, 10, 643-656.	1.2	28
32	Real-time abnormal motion detection in surveillance video. , 2008, , .		26
33	Computerized assessment of body image in anorexia nervosa and bulimia nervosa: comparison with standardized body image assessment tool. Archives of Women's Mental Health, 2017, 20, 139-147.	2.6	26
34	Heteroscedastic Hough Transform (HtHT): An Efficient Method for Robust Line Fitting in the "Errors in the Variables" Problem. Computer Vision and Image Understanding, 2000, 78, 69-83.	4.7	25
35	Restoration of Images with Piecewise Space-Variant Blur. , 2007, , 533-544.		24
36	People detection in top-view fisheye imaging. , 2017, , .		23

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37	Analyzing and Synthesizing Images by Evolving Curves with the Osher-Sethian Method. International Journal of Computer Vision, 1997, 24, 37-55.	15.6	20
38	Length Estimation in 3-D Using Cube Quantization. Journal of Mathematical Imaging and Vision, 1998, 8, 215-238.	1.3	20
39	Guaranteed Convergence of the Hough Transform. Computer Vision and Image Understanding, 1998, 69, 119-134.	4.7	20
40	Interactive level set segmentation for image-guided therapy. , 2009, , .		20
41	Progress in the restoration of image sequences degraded by atmospheric turbulence. Pattern Recognition Letters, 2014, 48, 8-14.	4.2	20
42	Mumford and Shah Model and its Applications to Image Segmentation and Image Restoration. , 2011, , 1095-1157.		20
43	Shape-Based Mutual Segmentation. International Journal of Computer Vision, 2008, 79, 231-245.	15.6	19
44	On Symmetry, Perspectivity, and Level-Set-Based Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1458-1471.	13.9	19
45	Chain code probabilities and optimal length estimators for digitized three-dimensional curves. Pattern Recognition, 1995, 28, 361-372.	8.1	18
46	On the magic of SLIDE. Machine Vision and Applications, 1997, 9, 251-261.	2.7	17
47	Efficient Low-Dose CT Denoising by Locally-Consistent Non-Local Means (LC-NLM). Lecture Notes in Computer Science, 2016, , 423-431.	1.3	17
48	Fully automatic detection of renal cysts in abdominal CT scans. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 957-966.	2.8	16
49	3-D Neural denoising for low-dose Coronary CT Angiography (CCTA). Computerized Medical Imaging and Graphics, 2018, 70, 185-191.	5.8	16
50	Atlas-Based Indexing of Brain Sections via 2-D to 3-D Image Registration. IEEE Transactions on Biomedical Engineering, 2008, 55, 147-156.	4.2	15
51	Vision through semireflecting media: polarization analysis. Optics Letters, 1999, 24, 1088.	3.3	12
52	MRI Inter-slice Reconstruction Using Super-Resolution. Lecture Notes in Computer Science, 2001, , 1204-1206.	1.3	12
53	Dataset Growth in Medical Image Analysis Research. Journal of Imaging, 2021, 7, 155.	3.0	11
54	Calculating geometric properties of three-dimensional objects from the spherical harmonic representation. Pattern Recognition, 2007, 40, 756-770.	8.1	10

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55	Shape from Unstructured Light. , 2007, , .		8
56	Mumford and Shah Model and Its Applications to Image Segmentation and Image Restoration. , 2015, , 1539-1597.		8
57	Color Image Deblurring with Impulsive Noise. Lecture Notes in Computer Science, 2005, , 49-60.	1.3	8
58	<title>Length estimation in 3-D using cube quantization</title>. , 1995, , .		7
59	Mumford and Shah Model and Its Applications to Image Segmentation and Image Restoration. , 2014, , 1-52.		7
60	V-Net Light - Parameter-Efficient 3-D Convolutional Neural Network for Prostate MRI Segmentation. , 2020, , .		7
61	Convergence of an Iterative Method for Variational Deconvolution and Impulsive Noise Removal. Multiscale Modeling and Simulation, 2007, 6, 983-994.	1.6	6
62	A novel technique for infant length measurement based on stereoscopic vision. Archives of Disease in Childhood, 2014, 99, 625-628.	1.9	6
63	Neural Segmentation of Seeding ROIs (sROIs) for Pre-Surgical Brain Tractography. IEEE Transactions on Medical Imaging, 2020, 39, 1655-1667.	8.9	6
64	Automatic Breast Lesion Classification by Joint Neural Analysis of Mammography and Ultrasound. Lecture Notes in Computer Science, 2020, , 125-135.	1.3	6
65	Surface Area Estimation in Practice. Lecture Notes in Computer Science, 2003, , 358-367.	1.3	5
66	Patient-specific image denoising for ultra-low-dose CT-guided lung biopsies. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2145-2155.	2.8	5
67	Automatic Segmentation of White Matter Tracts Using Multiple Brain MRI Sequences. , 2020, , .		5
68	Shape from Focus with Adaptive Focus Measure and High Order Derivatives. , 2015, , .		5
69	Motion magnification analysis of microscopy videos of biological cells. PLoS ONE, 2020, 15, e0240127.	2.5	5
70	<title>Finding shortest paths on surfaces by fast global approximation and precise local refinement</title>. , 1995, 2356, 198.		4
71	<title>Guaranteed convergence of the Hough transform</title>. , 1995, 2356, 90.		3
72	Use of a double Fourier series for three-dimensional shape representation. Computing (Vienna/New) Tj ETQq0 0 0 rgBT /Overlck 10 Tf 5	4.8	3

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73	Optimization of two-compartment-exchange-model analysis for dynamic contrast-enhanced mri incorporating bolus arrival time. Journal of Magnetic Resonance Imaging, 2017, 45, 237-249.	3.4	3
74	Computational Surface Flattening: A Voxel-Based Approach. Lecture Notes in Computer Science, 2001, , 196-204.	1.3	3
75	Anisotropic neural deblurring for MRI acceleration. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 315-327.	2.8	3
76	<title>Skeletonization via distance maps and level sets</title>. , 1995, 2356, 137.		2
77	A Neural Regression Framework for Low-Dose Coronary CT Angiography (CCTA) Denoising. Lecture Notes in Computer Science, 2017, , 102-110.	1.3	2
78	Detecting Cocircular Subsets of a Spherical Set of Points. Journal of Imaging, 2022, 8, 184.	3.0	2
79	Example based demosaicing. , 2014, , .		1
80	An alternating direction method for optical flow estimation with p regularization. , 2016, , .		1
81	Crossing the Road Without Traffic Lights: An Android-Based Safety Device. Lecture Notes in Computer Science, 2017, , 534-544.	1.3	1
82	Feature Aggregation in Perceptual Loss for Ultra Low-Dose (ULD) CT Denoising. , 2019, , .		1
83	Towards Segmentation from Multiple Cues: Symmetry and Color. Lecture Notes in Computer Science, 2001, , 142-152.	1.3	1
84	Road-Crossing Assistance by Traffic Flow Analysis. Lecture Notes in Computer Science, 2015, , 361-374.	1.3	1
85	Multi-valued Images and Their Separation. Lecture Notes in Computer Science, 2001, , 129-141.	1.3	1
86	Bit Allocation in Piecewise-Planar Representation of Images. Journal of Visual Communication and Image Representation, 1995, 6, 52-58.	2.8	0
87	Computer-Based Assessment of Body Image Distortion in Anorexia Nervosa Patients. Lecture Notes in Computer Science, 2000, , 766-775.	1.3	0
88	High Resolution - Extended Depth of Field Imaging. , 2006, , .		0
89	Unified Functional Framework for Restoration of Image Sequences Degraded by Atmospheric Turbulence. Lecture Notes in Computer Science, 2018, , 205-219.	1.3	0
90	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0

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91	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0
92	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0
93	Motion magnification analysis of microscopy videos of biological cells. , 2020, 15, e0240127.		0