

# Shmuel Peleg

## List of Publications by Year in descending order

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98  
papers

7,938  
citations

182225

30  
h-index

145109

60  
g-index

100  
all docs

100  
docs citations

100  
times ranked

5002  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crypto-Oriented Neural Architecture Design. , 2021, , .		2
2	Audio-Visual Evaluation of Oratory Skills. , 2021, , .		1
3	EgoSampling: Wide View Hyperlapse From Egocentric Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1248-1259.	5.6	15
4	Seeing Through Noise: Visually Driven Speaker Separation And Enhancement. , 2018, , .		47
5	Vid2speech: Speech reconstruction from silent video. , 2017, , .		62
6	Improved Speech Reconstruction from Silent Video. , 2017, , .		49
7	An Egocentric Look at Video Photographer Identity. , 2016, , .		22
8	Camera Calibration from Dynamic Silhouettes Using Motion Barcodes. , 2016, , .		16
9	Epipolar geometry based on line similarity. , 2016, , .		8
10	Compact CNN for indexing egocentric videos. , 2016, , .		62
11	Fundamental Matrices from Moving Objects Using Line Motion Barcodes. Lecture Notes in Computer Science, 2016, , 220-228.	1.0	8
12	EgoSampling: Fast-forward and stereo for egocentric videos. , 2015, , .		44
13	The Information in Temporal Histograms. , 2015, , .		1
14	Event retrieval using motion barcodes. , 2015, , .		7
15	Live video synopsis for multiple cameras. , 2015, , .		8
16	Head Motion Signatures from Egocentric Videos. Lecture Notes in Computer Science, 2015, , 315-329.	1.0	7
17	Wisdom of the Crowd in Egocentric Video Curation. , 2014, , .		15
18	Scene geometry from moving objects. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
19	Temporal Segmentation of Egocentric Videos. , 2014, , .		114
20	Efficient representation of distributions for background subtraction. , 2013, , .		2
21	Keynote lecture 2: &#x201C;Video synopsis&#x201D;. , 2013, , .		0
22	Alignment and mosaicing of non-overlapping images. , 2012, , .		8
23	Extending the Condorcet Jury Theorem to a general dependent jury. Social Choice and Welfare, 2012, 39, 91-125.	0.4	21
24	Real-Time Stereo Mosaicing Using Feature Tracking. , 2011, , .		3
25	Identifying Surprising Events in Videos Using Bayesian Topic Models. Lecture Notes in Computer Science, 2011, , 448-459.	1.0	5
26	Snap Image Composition. Lecture Notes in Computer Science, 2011, , 181-191.	1.0	1
27	Bacteria-Filters: Persistent particle filters for background subtraction. , 2010, , .		1
28	Clustered Synopsis of Surveillance Video. , 2009, , .		92
29	Shift-map image editing. , 2009, , .		164
30	Minimal Aspect Distortion (MAD) Mosaicing of Long Scenes. International Journal of Computer Vision, 2008, 78, 187-206.	10.9	44
31	Nonchronological Video Synopsis and Indexing. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1971-1984.	9.7	276
32	Dynamosaicing: Mosaicing of Dynamic Scenes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1789-1801.	9.7	46
33	Webcam Synopsis: Peeking Around the World. , 2007, , .		115
34	Seamless image stitching by minimizing false edges. IEEE Transactions on Image Processing, 2006, 15, 969-977.	6.0	136
35	Lucas-Kanade without Iterative Warping. , 2006, , .		10
36	Online Video Registration of Dynamic Scenes Using Frame Prediction. , 2006, , 151-164.		2

#	ARTICLE	IF	CITATIONS
37	Two motion-blurred images are better than one. Pattern Recognition Letters, 2005, 26, 311-317.	2.6	194
38	Spatio-temporal video warping. , 2005, , .		4
39	Seamless Image Stitching in the Gradient Domain. Lecture Notes in Computer Science, 2004, , 377-389.	1.0	251
40	Fast Panoramic Stereo Matching Using Cylindrical Maximum Surfaces. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 760-765.	5.5	19
41	<title>Mosaicing impossible stereo views</title>. , 2004, , .		0
42	Mosaicing new views: the crossed-slits projection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 741-754.	9.7	131
43	Super-Resolution from Multiple Images Having Arbitrary Mutual Motion. , 2002, , 195-209.		7
44	Omnistere: panoramic stereo imaging. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 279-290.	9.7	229
45	<title>Stereo mosaicing from a single moving video camera</title>. , 2001, , .		1
46	Optics for Omnistere Imaging. , 2001, , 447-467.		8
47	Real-Time Motion Analysis with Linear Programming. Computer Vision and Image Understanding, 2000, 78, 32-52.	3.0	17
48	Model Based Pose Estimator Using Linear-Programming. Lecture Notes in Computer Science, 2000, , 267-281.	1.0	1
49	Recovery of ego-motion using region alignment. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1997, 19, 268-272.	9.7	109
50	Local quantitative measurements for cardiac motion analysis. Lecture Notes in Computer Science, 1996, , 262-271.	1.0	2
51	Computing occluding and transparent motions. International Journal of Computer Vision, 1994, 12, 5-16.	10.9	321
52	Two-dimensional rotational dynamic chirality and a chirality scale. [Erratum to document cited in CA113:198665]. Langmuir, 1994, 10, 1633-1633.	1.6	3
53	Motion Analysis for Image Enhancement: Resolution, Occlusion, and Transparency. Journal of Visual Communication and Image Representation, 1993, 4, 324-335.	1.7	724
54	Continuous symmetry measures. 2. Symmetry groups and the tetrahedron. Journal of the American Chemical Society, 1993, 115, 8278-8289.	6.6	201

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55	Continuous symmetry measures. 2. Symmetry groups and the tetrahedron. [Erratum to document cited in CA119(14):146788k]. Journal of the American Chemical Society, 1993, 115, 11656-11656.	6.6	9
56	Robust recovery of ego-motion. Lecture Notes in Computer Science, 1993, , 371-378.	1.0	8
57	A three-frame algorithm for estimating two-component image motion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1992, 14, 886-896.	9.7	215
58	Continuous symmetry measures. Journal of the American Chemical Society, 1992, 114, 7843-7851.	6.6	552
59	Detecting and tracking multiple moving objects using temporal integration. Lecture Notes in Computer Science, 1992, , 282-287.	1.0	109
60	Improving resolution by image registration. Graphical Models, 1991, 53, 231-239.	0.7	1,419
61	Characterization of right-handed and left-handed shapes. CVGIP Image Understanding, 1991, 53, 297-302.	1.3	8
62	Attentive transmission. Journal of Visual Communication and Image Representation, 1990, 1, 189-198.	1.7	20
63	Transparent-motion analysis. Lecture Notes in Computer Science, 1990, , 566-569.	1.0	7
64	Two-dimensional rotational dynamic chirality and a chirality scale. Langmuir, 1990, 6, 1691-1695.	1.6	31
65	A 3D Multiresolution Segmentation Algorithm For Surface Reconstruction From CT Data. Proceedings of SPIE, 1989, , .	0.8	2
66	A unified approach to the change of resolution: space and gray-level. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1989, 11, 739-742.	9.7	115
67	Gray level requantization. Computer Vision, Graphics, and Image Processing, 1988, 41, 266.	1.1	0
68	Gray level requantization. Computer Vision, Graphics, and Image Processing, 1988, 43, 81-87.	1.1	1
69	A Unified Approach To The Change Of Resolution: Space And Grey Level. Proceedings of SPIE, 1988, 0901, 91.	0.8	3
70	Improving image resolution using subpixel motion. Pattern Recognition Letters, 1987, 5, 223-226.	2.6	125
71	Inversion of picture operators. Pattern Recognition Letters, 1987, 5, 49-61.	2.6	40
72	Representation of patterns of symbols by equations with applications to puzzle solving. Pattern Recognition Letters, 1987, 5, 119-128.	2.6	0

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73	Bipartite graph matching for points on a line or a circle. <i>Journal of Algorithms</i> , 1986, 7, 277-284.	0.9	32
74	Custom Made Pyramids. , 1986, , 165-171.		6
75	Noisy image restoration by cost function minimization. <i>Pattern Recognition Letters</i> , 1985, 3, 65-69.	2.6	6
76	A distance metric for multidimensional histograms. <i>Computer Vision, Graphics, and Image Processing</i> , 1985, 32, 328-336.	1.1	126
77	Fuzzy and probability vectors as elements of a vector space. <i>Information Sciences</i> , 1985, 36, 231-247.	4.0	1
78	Applications and limitations of boundary-line fractal analysis of irregular surfaces: proteins, aggregates, and porous materials. <i>Langmuir</i> , 1985, 1, 399-407.	1.6	109
79	Min-Max Operators in Texture Analysis. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1985, PAMI-7, 730-733.	9.7	61
80	Classification by discrete optimization. <i>Computer Vision, Graphics, and Image Processing</i> , 1984, 25, 122-130.	1.1	5
81	Multiple Resolution Texture Analysis and Classification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1984, PAMI-6, 518-523.	9.7	666
82	Image Analysis in the Study of Dissipative Spatial Patterns. <i>Springer Series in Synergetics</i> , 1984, , 223-223.	0.2	1
83	Hierarchical image representation for compression, filtering and normalization. <i>Pattern Recognition Letters</i> , 1983, 2, 43-46.	2.6	4
84	Analysis of relaxation processes: The two-node two-label case. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1983, SMC-13, 618-623.	0.9	10
85	Classification and tracking using local optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1983, SMC-13, 1158-1162.	0.9	3
86	Image Smoothing and Segmentation by Multiresolution Pixel Linking: Further Experiments and Extensions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1982, 12, 611-622.	0.9	50
87	A Min-Max Medial Axis Transformation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1981, PAMI-3, 208-210.	9.7	75
88	Shape Segmentation Using Relaxation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1981, PAMI-3, 368-375.	9.7	16
89	<title>Multiresolution Pixel Linking For Image Smoothing And Segmentation</title>. , 1981, , .		1
90	Elimination of seams from photomosaics. <i>Computer Graphics and Image Processing</i> , 1981, 16, 90-94.	0.9	54

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91	Labeling evaluation in probabilistic networks. Information Sciences, 1980, 21, 213-220.	4.0	0
92	A New Probabilistic Relaxation Scheme. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1980, PAMI-2, 362-369.	9.7	156
93	Breaking substitution ciphers using a relaxation algorithm. Communications of the ACM, 1979, 22, 598-605.	3.3	58
94	Ambiguity reduction in handwriting with ambiguous segmentation and uncertain interpretation. Computer Graphics and Image Processing, 1979, 10, 235-245.	0.9	15
95	Maximal derivations for probabilistic strings in stochastic languages. Information and Control, 1979, 42, 290-304.	1.3	4
96	Motion Based Segmentation. , 0, , .		0
97	Motion based segmentation. , 0, , .		37
98	Super resolution from image sequences. , 0, , .		129