

Edward H Adelson

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

9,854
citations

304743
22
h-index

610901
24
g-index

30
all docs

30
docs citations

30
times ranked

4263
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal energy models for the perception of motion. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 284.	1.5	2,932
2	Phenomenal coherence of moving visual patterns. Nature, 1982, 300, 523-525.	27.8	1,068
3	Motion illusions as optimal percepts. Nature Neuroscience, 2002, 5, 598-604.	14.8	865
4	The Analysis of Moving Visual Patterns. Experimental Brain Research Supplementum, 1985, , 117-151.	1.0	556
5	Perceptual organization and the judgment of brightness. Science, 1993, 262, 2042-2044.	12.6	550
6	Image statistics and the perception of surface qualities. Nature, 2007, 447, 206-209.	27.8	531
7	GelSight: High-Resolution Robot Tactile Sensors for Estimating Geometry and Force. Sensors, 2017, 17, 2762.	3.8	470
8	Real-world illumination and the perception of surface reflectance properties. Journal of Vision, 2003, 3, 3.	0.3	351
9	Early vision and texture perception. Nature, 1988, 333, 363-364.	27.8	312
10	Directionally selective complex cells and the computation of motion energy in cat visual cortex. Vision Research, 1992, 32, 203-218.	1.4	300
11	Motion illusions as optimal percepts. Nature Neuroscience, 2002, 5, 598-604.	14.8	253
12	Specular reflections and the perception of shape. Journal of Vision, 2004, 4, 10.	0.3	249
13	<title>On seeing stuff: the perception of materials by humans and machines</title>. , 2001, , .		181
14	Exploring features in a Bayesian framework for material recognition. , 2010, , .		162
15	Saturation and adaptation in the rod system. Vision Research, 1982, 22, 1299-1312.	1.4	146
16	Recognizing Materials Using Perceptually Inspired Features. International Journal of Computer Vision, 2013, 103, 348-371.	15.6	133
17	Statistical characterization of real-world illumination. Journal of Vision, 2004, 4, 11.	0.3	115
18	Image statistics for surface reflectance perception. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 846.	1.5	104

#	ARTICLE	IF	CITATIONS
19	Accuracy and speed of material categorization in real-world images. Journal of Vision, 2014, 14, 12-12.	0.3	104
20	Discovering states and transformations in image collections. , 2015, , .		95
21	Active Clothing Material Perception Using Tactile Sensing and Deep Learning. , 2018, , .		66
22	Adventures with Gelatinous Ellipsesâ€”Constraints on Models of Human Motion Analysis. Perception, 2000, 29, 543-566.	1.2	64
23	Understanding the role of phase function in translucent appearance. ACM Transactions on Graphics, 2013, 32, 1-19.	7.2	62
24	Beyond Junctions: Nonlocal form Constraints on Motion Interpretation. Perception, 2001, 30, 905-923.	1.2	57
25	Visual wetness perception based on image color statistics. Journal of Vision, 2017, 17, 7.	0.3	35
26	The geometry of the occluding contour and its effect on motion interpretation. Journal of Vision, 2004, 4, 9.	0.3	27
27	On the appearance of translucent edges. , 2015, , .		23
28	The delayed rod afterimage. Vision Research, 1982, 22, 1313-1328.	1.4	22
29	Junctions and cost functions in motion interpretation. Journal of Vision, 2004, 4, 3.	0.3	11
30	Image statistics and surface perception. , 2008, , .		10