Jacob Feldman

List of Publications by Year
in descending order

67 papers	3,986 citations
172457 29 h-index	128289 60 g-index
67 all docs	67 docs citations
67 times ranked	2352 citing authors

#	Article	IF	Citations
1	Minimization of Boolean complexity in human concept learning. Nature, 2000, 407, 630-633.	27.8	358
2	Perception of Animacy from the Motion of a Single Object. Perception, 2000, 29, 943-951.	1.2	356
3	A century of Gestalt psychology in visual perception: II. Conceptual and theoretical foundations.. Psychological Bulletin, 2012, 138, 1218-1252.	6.1	324
4	What is a visual object? Evidence from target merging in multiple object tracking. Cognition, 2001, 80, 159-177.	2.2	266
5	A Rational Analysis of Rule-Based Concept Learning. Cognitive Science, 2008, 32, 108-154.	1.7	218
6	What's magic about magic numbers? Chunking and data compression in short-term memory. Cognition, 2012, 122, 346-362.	2.2	194
7	Information Along Contours and Object Boundaries.. Psychological Review, 2005, 112, 243-252.	3.8	188
8	Bayesian estimation of the shape skeleton. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18014-18019.	7.1	145
9	The Simplicity Principle in Human Concept Learning. Current Directions in Psychological Science, 2003, 12, 227-232.	5.3	143
10	The Structure of Perceptual Categories. Journal of Mathematical Psychology, 1997, 41, 145-170.	1.8	139
11	An algebra of human concept learning. Journal of Mathematical Psychology, 2006, 50, 339-368.	1.8	99
12	What is a visual object?. Trends in Cognitive Sciences, 2003, 7, 252-256.	7.8	96
13	The influence of spatial context and the role of intentionality in the interpretation of animacy from motion. Perception & Psychophysics, 2006, 68, 1047-1058.	2.3	93
14	Conceptual complexity and the bias/variance tradeoff. Cognition, 2011, 118, 2-16.	2.2	89
15	Bayesian contour integration. Perception & Psychophysics, 2001, 63, 1171-1182.	2.3	85
16	Detection of change in shape: an advantage for concavities. Cognition, 2003, 89, 1-9.	2.2	84
17	Formation of visual "objects" in the early computation of spatial relations. Perception & Psychophysics, 2007, 69, 816-827.	2.3	80
18	Visual comparisons within and between object parts: evidence for a single-part superiority effect. Vision Research, 2003, 43, 1655-1666.	1.4	68

#	Article	IF	Citations
19	Bayes and the simplicity principle in perception.. Psychological Review, 2009, 116, 875-887.	3.8	64
20	Curvilinearity, covariance, and regularity in perceptual groups. Vision Research, 1997, 37, 2835-2848.	1.4	61
21	A catalog of Boolean concepts. Journal of Mathematical Psychology, 2003, 47, 75-89.	1.8	60
22	Individuation of visual objects over time. Cognition, 2006, 99, 131-165.	2.2	53
23	Superordinate shape classification using natural shape statistics. Cognition, 2011, 119, 325-340.	2.2	48
24	The role of objects in perceptual grouping. Acta Psychologica, 1999, 102, 137-163.	1.5	45
25	Tuning Your Priors to the World. Topics in Cognitive Science, 2013, 5, 13-34.	1.9	45
26	The simplicity principle in perception and cognition. Wiley Interdisciplinary Reviews: Cognitive Science, 2016, 7, 330-340.	2.8	45
27	Regularity-based Perceptual Grouping. Computational Intelligence, 1997, 13, 582-623.	3.2	40
28	What change detection tells us about the visual representation of shape. Journal of Vision, 2005, 5, 3.	0.3	39
29	Bayesian hierarchical grouping: Perceptual grouping as mixture estimation.. Psychological Review, 2015, 122, 575-597.	3.8	33
30	Bias toward regular form in mental shape spaces.. Journal of Experimental Psychology: Human Perception and Performance, 2000, 26, 152-165.	0.9	32
31	How surprising is a simple pattern? Quantifying ?Eureka!?. Cognition, 2004, 93, 199-224.	2.2	30
32	A rule-based presentation order facilitates category learning. Psychonomic Bulletin and Review, 2009, 16, 1050-1057.	2.8	30
33	Inferring the intentional states of autonomous virtual agents. Cognition, 2014, 130, 360-379.	2.2	25
34	Perceptual Grouping by Selection of a Logically Minimal Model. International Journal of Computer Vision, 2003, 55, 5-25.	15.6	24
35	Globally inconsistent figure/ground relations induced by a negative part. Journal of Vision, 2009, 9, 8-8.	0.3	23
36	Determination of visual figure and ground in dynamically deforming shapes. Cognition, 2006, 101, 530-544.	2.2	22

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37	Saccadic localization of occluded targets. Vision Research, 2000, 40, 2797-2811.	1.4	21
38	Regularity Vs Genericity in the Perception of Collinearity. Perception, 1996, 25, 335-342.	1.2	20
39	The role of shape complexity in the detection of closed contours. Vision Research, 2016, 126, 220-231.	1.4	19
40	An Integrated Bayesian Approach to Shape Representation and Perceptual Organization. , 2013, , 55-70.		18
41	Mapping the Mental Space of Rectangles. Perception, 1998, 27, 1191-1202.	1.2	15
42	The influence of shape and skeletal axis structure on texture perception. Journal of Vision, 2009, 9, 13-13.	0.3	15
43	Rotating columns: Relating structure-from-motion, accretion/deletion, and figure/ground. Journal of Vision, 2013, 13, 6-6.	0.3	14
44	Symbolic representation of probabilistic worlds. Cognition, 2012, 123, 61-83.	2.2	13
45	Investigating shape representation using sensitivity to part- and axis-based transformations. Vision Research, 2016, 126, 347-361.	1.4	12
46	Contour complexity and contour detection. Journal of Vision, 2015, 15, 6.	0.3	10
47	Shape discrimination along morph-spaces. Vision Research, 2019, 158, 189-199.	1.4	9
48	Mutual Information and Categorical Perception. Psychological Science, 2021, 32, 1298-1310.	3.3	9
49	Perceptual models of small dot clusters. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1995, , 331-357.	0.0	9
50	Principles of contour information: Reply to Lim and Leek (2012).. Psychological Review, 2012, 119, 678-683.	3.8	8
51	Curved apparent motion induced by amodal completion. Attention, Perception, and Psychophysics, 2012, 74, 350-364.	1.3	8
52	The Influence of Presentation Order on Category Transfer. Experimental Psychology, 2016, 63, 59-69.	0.7	8
53	Exploring the mental space of autonomous intentional agents. Attention, Perception, and Psychophysics, 2012, 74, 239-249.	1.3	7
54	What Are the "True" Statistics of the Environment?. Cognitive Science, 2017, 41, 1871-1903.	1.7	7

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55	Bayesian inference and "truth": a comment on Hoffman, Singh, and Prakash. Psychonomic Bulletin and Review, 2015, 22, 1523-1525.	2.8	6
56	Information-theoretic signal detection theory.. Psychological Review, 2021, 128, 976-987.	3.8	6
57	When Is Accreting/Deleting Texture Seen as In Front? Interpretation of Depth From Texture Motion. Perception, 2018, 47, 694-721.	1.2	2
58	The strong influence of contour geometry in Structure from Motion (SFM). Journal of Vision, 2019, 19, 198a.	0.3	2
59	Causal models of spatial categories. Behavioral and Brain Sciences, 1993, 16, 244-245.	0.7	1
60	The influence of contour geometry on structure-from-motion: from symmetry to parallelism. Journal of Vision, 2017, 17, 414.	0.3	1
61	Violation of projective consistency in structure-from-motion: a role for skin motion?. Journal of Vision, 2018, 18, 298.	0.3	1
62	Meaning and reference from a probabilistic point of view. Cognition, 2022, 223, 105058.	2.2	1
63	Investigating Non-Rigid Structure-From-Motion: A Role for Part-Wise Rigidity?. Journal of Vision, 2021, 21, 2907.	0.3	0
64	Combination of speed profile of accreting/deleting texture and occluding contour geometry in determining relative depth. Journal of Vision, 2017, 17, 1377.	0.3	0
65	Perception of Intentionality in Avatars and AI Agents. Journal of Vision, 2018, 18, 49.	0.3	0
66	Perceptual biases in the interpretation of non-rigid structure from motion. Journal of Vision, 2019, 19, 198.	0.3	0
67	Shape similarity and shape categorization using Bayesian shape skeletons. Journal of Vision, 2019, 19, 128a.	0.3	0