Wolfgang EinhÃ¤user

List of Publications by Year
in descending order

95 papers	4,512 citations	126907 33 h-index	114465 63 g-index
101 all docs	101 docs citations	101 times ranked	3941 citing authors

#	Article	IF	Citations
1	Objects predict fixations better than early saliency. Journal of Vision, 2008, 8, 18-18.	0.3	363
2	Pupil dilation signals surprise: evidence for noradrenalineâ€™s role in decision making. Frontiers in Neuroscience, 2011, 5, 115.	2.8	359
3	Pupil dilation reflects perceptual selection and predicts subsequent stability in perceptual rivalry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1704-1709.	7.1	304
4	Binocular Rivalry: Frontal Activity Relates to Introspection and Action But Not to Perception. Journal of Neuroscience, 2014, 34, 1738-1747.	3.6	284
5	Task-demands can immediately reverse the effects of sensory-driven saliency in complex visual stimuli. Journal of Vision, 2008, 8, 2.	0.3	222
6	Does luminance-contrast contribute to a saliency map for overt visual attention?. European Journal of Neuroscience, 2003, 17, 1089-1097.	2.6	185
7	The world from a cat?s perspective ? statistics of natural videos. Biological Cybernetics, 2004, 90, 41-50.	1.3	138
8	Perceptual Rivalry: Reflexes Reveal the Gradual Nature of Visual Awareness. PLoS ONE, 2011, 6, e20910.	2.5	135
9	How Are Complex Cell Properties Adapted to the Statistics of Natural Stimuli?. Journal of Neurophysiology, 2004, 91, 206-212.	1.8	120
10	Pupil dilation betrays the timing of decisions. Frontiers in Human Neuroscience, 2010, 4, 18.	2.0	117
11	Effects of aging on eye movements in the real world. Frontiers in Human Neuroscience, 2015, 9, 46.	2.0	99
12	Neural pathways of embarrassment and their modulation by social anxiety. NeuroImage, 2015, 119, 252-261.	4.2	97
13	Gaze allocation in natural stimuli: Comparing free exploration to head-fixed viewing conditions. Visual Cognition, 2009, 17, 1132-1158.	1.6	86
14	Pupil size signals novelty and predicts later retrieval success for declarative memories of natural scenes. Journal of Vision, 2013, 13, 11-11.	0.3	84
15	Human eye-head co-ordination in natural exploration. Network: Computation in Neural Systems, 2007, 18, 267-297.	3.6	83
16	Spatial attention increases performance but not subjective confidence in a discrimination task. Journal of Vision, 2008, 8, 7.	0.3	82
17	Pupil responses allow communication in locked-in syndrome patients. Current Biology, 2013, 23, R647-R648.	3.9	79
18	Evidence from pupillometry and fMRI indicates reduced neural response during vicarious social pain but not physical pain in autism. Human Brain Mapping, 2015, 36, 4730-4744.	3.6	75

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19	Learning the invariance properties of complex cells from their responses to natural stimuli. European Journal of Neuroscience, 2002, 15, 475-486.	2.6	72
20	Overt attention in natural scenes: Objects dominate features. Vision Research, 2015, 107, 36-48.	1.4	70
21	Pupillometry as an integrated readout of distinct attentional networks. Trends in Neurosciences, 2022, 45, 635-647.	8.6	70
22	Differences of monkey and human overt attention under natural conditions. Vision Research, 2006, 46, 1194-1209.	1.4	68
23	Reward modulates perception in binocular rivalry. Journal of Vision, 2015, 15, 11-11.	0.3	63
24	Are switches in perception of the Necker cube related to eye position?. European Journal of Neuroscience, 2004, 20, 2811-2818.	2.6	61
25	Mind the step: complementary effects of an implicit task on eye and head movements in real-life gaze allocation. Experimental Brain Research, 2012, 223, 233-249.	1.5	57
26	Salient features in gaze-aligned recordings of human visual input during free exploration of natural environments. Journal of Vision, 2008, 8, 12-12.	0.3	53
27	The duration of the attentional blink in natural scenes depends on stimulus category. Vision Research, 2007, 47, 597-607.	1.4	47
28	The Pupil as Marker of Cognitive Processes. Cognitive Science and Technology, 2017, , 141-169.	0.4	46
29	Learning viewpoint invariant object representations using a temporal coherence principle. Biological Cybernetics, 2005, 93, 79-90.	1.3	44
30	Validation of mobile eye-tracking as novel and efficient means for differentiating progressive supranuclear palsy from Parkinson's disease. Frontiers in Behavioral Neuroscience, 2012, 6, 88.	2.0	44
31	Effects of luminance contrast and its modifications on fixation behavior during free viewing of images from different categories. Vision Research, 2009, 49, 1541-1553.	1.4	42
32	Animal detection and identification in natural scenes: Image statistics and emotional valence. Journal of Vision, 2012, 12, 25-25.	0.3	40
33	Anterior insula reflects surprise in value-based decision-making and perception. NeuroImage, 2020, 210, 116549.	4.2	38
34	A new approach to modeling the influence of image features on fixation selection in scenes. Annals of the New York Academy of Sciences, 2015, 1339, 82-96.	3.8	36
35	The relation of phase noise and luminance contrast to overt attention in complex visual stimuli. Journal of Vision, 2006, 6, 1-1.	0.3	35
36	Saliency on a natural scene background: Effects of color and luminance contrast add linearly. Attention, Perception, and Psychophysics, 2009, 71, 1337-1352.	1.3	34

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37	Temporal correlations of orientations in natural scenes. Neurocomputing, 2003, 52-54, 117-123.	5.9	33
38	Extracting Slow Subspaces from Natural Videos Leads to Complex Cells. Lecture Notes in Computer Science, 2001, , 1075-1080.	1.3	33
39	Eye movements of patients with schizophrenia in a natural environment. European Archives of Psychiatry and Clinical Neuroscience, 2016, 266, 43-54.	3.2	32
40	Online action-to-perception transfer: Only percept-dependent action affects perception. Vision Research, 2010, 50, 2633-2641.	1.4	30
41	Attention in natural scenes: Affective-motivational factors guide gaze independently of visual salience. Vision Research, 2017, 133, 161-175.	1.4	30
42	The role of first- and second-order stimulus features for human overt attention. Perception & Psychophysics, 2007, 69, 153-161.	2.3	29
43	Getting realâ€"sensory processing of natural stimuli. Current Opinion in Neurobiology, 2010, 20, 389-395.	4.2	29
44	Fixations on objects in natural scenes: dissociating importance from salience. Frontiers in Psychology, 2013, 4, 455.	2.1	28
45	A bottomâ€"up model of spatial attention predicts human error patterns in rapid scene recognition. Journal of Vision, 2007, 7, 6.	0.3	26
46	Attention in natural scenes: contrast affects rapid visual processing and fixations alike. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130067.	4.0	26
47	Tri-stable stimuli reveal interactions among subsequent percepts: Rivalry is biased by perceptual history. Vision Research, 2010, 50, 818-828.	1.4	25
48	Fronto-insula network activity explains emotional dysfunctions in juvenile myoclonic epilepsy: Combined evidence from pupillometry and fMRI. Cortex, 2015, 65, 219-231.	2.4	25
49	How Well Can Saliency Models Predict Fixation Selection in Scenes Beyond Central Bias? A New Approach to Model Evaluation Using Generalized Linear Mixed Models. Frontiers in Human Neuroscience, 2017, 11, 491.	2.0	25
50	Eyeâ€"Head Coordination during Free Exploration in Human and Cat. Annals of the New York Academy of Sciences, 2009, 1164, 353-366.	3.8	24
51	Attentional selection in visual perception, memory and action: a quest for cross-domain integration. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130053.	4.0	24
52	Salient in space, salient in time: Fixation probability predicts fixation duration during natural scene viewing. Journal of Vision, 2016, 16, 13.	0.3	17
53	Salience-based object prioritization during active viewing of naturalistic scenes in young and older adults. Scientific Reports, 2020, 10, 22057.	3.3	16
54	Distinct Roles for Eye and Head Movements in Selecting Salient Image Parts during Natural Exploration. Annals of the New York Academy of Sciences, 2009, 1164, 188-193.	3.8	15

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55	Observers are consistent when rating image conspicuity. Vision Research, 2007, 47, 3052-3060.	1.4	14
56	Color aids late but not early stages of rapid natural scene recognition. Journal of Vision, 2008, 8, 12-12.	0.3	14
57	Perceptual benefits of objecthood. Journal of Vision, 2011, 11, 8-8.	0.3	14
58	Decoding What People See from Where They Look: Predicting Visual Stimuli from Scanpaths. Lecture Notes in Computer Science, 2009, , 15-26.	1.3	14
59	Gaze in Visual Search Is Guided More Efficiently by Positive Cues than by Negative Cues. PLoS ONE, 2015, 10, e0145910.	2.5	12
60	Automatic computation of an imageâ€™s statistical surprise predicts performance of human observers on a natural image detection task. Vision Research, 2009, 49, 1620-1637.	1.4	11
61	How to Become a Mentalist: Reading Decisions from a Competitorâ€™s Pupil Can Be Achieved without Training but Requires Instruction. PLoS ONE, 2013, 8, e73302.	2.5	10
62	Newly acquired audio-visual associations bias perception in binocular rivalry. Vision Research, 2017, 133, 121-129.	1.4	10
63	Fixation durations in natural scene viewing are guided by peripheral scene content. Journal of Vision, 2020, 20, 15.	0.3	10
64	Gaze During Locomotion in Virtual Reality and the Real World. Frontiers in Neuroscience, 2021, 15, 656913.	2.8	10
65	Using binocular rivalry to tag foreground sounds: Towards an objective visual measure for auditory multistability. Journal of Vision, 2017, 17, 34.	0.3	8
66	Picture-evoked changes in pupil size predict learning success in children. Journal of Experimental Child Psychology, 2020, 192, 104787.	1.4	8
67	Learning of somatosensory representations for texture discrimination using a temporal coherence principle. Network: Computation in Neural Systems, 2005, 16, 223-238.	3.6	7
68	Rapid serial processing of natural scenes: Color modulates detection but neither recognition nor the attentional blink. Journal of Vision, 2014, 14, 4-4.	0.3	7
69	Cognition modulates action-to-perception transfer in ambiguous perception. Journal of Vision, 2018, 18, 5.	0.3	7
70	Objects and saliency: Reply to Borji et al.. Journal of Vision, 2013, 13, 20-20.	0.3	6
71	Continuous flash suppression: Manual action affects eye movements but not the reported percept. Journal of Vision, 2018, 18, 8.	0.3	5
72	Learning Distinct and Complementary Feature Selectivities from Natural Colour Videos. Reviews in the Neurosciences, 2003, 14, 43-52.	2.9	4

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73	Visual Search in the Real World: Color Vision Deficiency Affects Peripheral Guidance, but Leaves Foveal Verification Largely Unaffected. Frontiers in Human Neuroscience, 2015, 9, 680.	2.0	4
74	Intraindividual Consistency Between Auditory and Visual Multistability. Perception, 2020, 49, 119-138.	1.2	4
75	Pupillometry in auditory multistability. PLoS ONE, 2021, 16, e0252370.	2.5	4
76	Icy road aheadâ€"rapid adjustments of gazeâ€"gait interactions during perturbed naturalistic walking. Journal of Vision, 2021, 21, 11.	0.3	4
77	Faces in Places: Humans and Machines Make Similar Face Detection Errors. PLoS ONE, 2011, 6, e25373.	2.5	4
78	Learning Multiple Feature Representations from Natural Image Sequences. Lecture Notes in Computer Science, 2002, , 21-26.	1.3	3
79	Competition with and without priority control: linking rivalry to attention through winnerâ€takeâ€all networks with memory. Annals of the New York Academy of Sciences, 2015, 1339, 138-153.	3.8	2
80	Biological motion distorts size perception. Scientific Reports, 2017, 7, 42576.	3.3	2
81	Motivational Objects in Natural Scenes (MONS): A Database of >800 Objects. Frontiers in Psychology, 2017, 8, 1669.	2.1	2
82	Visual Awareness in Binocular Rivalry Modulates Induced Pupil Fluctuations. Journal of Cognition, 2018, 1, 12.	1.4	2
83	Optimizing user interfaces in food production: gaze tracking is more sensitive for A-B-testing than behavioral data alone. , 2020, , .		2
84	Introduction to <i>Competitive Visual Processing Across Space and Time: Attention, Memory, and Prediction</i>. Annals of the New York Academy of Sciences, 2015, 1339, v-viii.	3.8	1
85	Parameter dependence in visual pattern-component rivalry at onset and during prolonged viewing. Vision Research, 2021, 182, 69-88.	1.4	1
86	Automatic Detection of Learnability under Unreliable and Sparse User Feedback. Lecture Notes in Computer Science, 2008, , 224-233.	1.3	1
87	Reply to HupÃ© <i>et al.</i> : The predictive correlation of pupil dilation and relative dominance durations in rivalry is not a statistical artifact. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, .	7.1	0
88	Perceptual Difficulty Persistently Increases Dominance in Binocular Rivalryâ€"Even Without a Task. Perception, 2021, 50, 343-366.	1.2	0
89	Audio-visual Interactions in Multistable Perception: Evidence from No-report Paradigms. Journal of Vision, 2017, 17, 1215.	0.3	0
90	Salience-based object prioritization during natural-scene viewing in elderly and young adults. Journal of Vision, 2018, 18, 379.	0.3	0

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91	Induced pupil oscillations characterize the size of the attentional window at different levels of attentional load. Journal of Vision, 2019, 19, 102.	0.3	0
92	Action-based predictions affect visual perception, neural processing, and pupil size, regardless of temporal predictability. Journal of Vision, 2019, 19, 290b.	0.3	0
93	Parameter dependence of first and subsequent percepts in visual tri-stability. Journal of Vision, 2019, 19, 62c.	0.3	0
94	Using Attentional Modulation of the Pupillary Light Response to Study the Mechanisms Underlying Object-Based Attention.. Journal of Vision, 2020, 20, 1215.	0.3	0
95	Icy road ahead â€“ gaze during perturbed walking. Journal of Vision, 2020, 20, 559.	0.3	0