Ralf Engbert

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Data assimilation in dynamical cognitive science. Trends in Cognitive Sciences, 2022, 26, 99-102.	4.0	4
2	Potsdam Eye-Movement Corpus for Scene Memorization and Search With Color and Spatial-Frequency Filtering. Frontiers in Psychology, 2022, 13, 850482.	1.1	0
3	Sequential Data Assimilation of the Stochastic SEIR Epidemic Model for Regional COVID-19 Dynamics. Bulletin of Mathematical Biology, 2021, 83, 1.	0.9	113
4	Does Local Coherence Lead to Targeted Regressions and Illusions of Grammaticality?. Open Mind, 2021, 5, 1-17.	0.6	1
5	Predictive modeling of parafoveal information processing during reading. Scientific Reports, 2021, 11, 12954.	1.6	2
6	A Bayesian approach to dynamical modeling of eye-movement control in reading of normal, mirrored, and scrambled texts Psychological Review, 2021, 128, 803-823.	2.7	9
7	Dynamical Models In Neurocognitive Psychology. , 2021, , .		0
8	Scene Viewing and Spatial Statistics. , 2021, , 89-105.		0
9	Eye-Movement Control During Reading. , 2021, , 67-88.		0
10	Epilog: Dynamical Models of Cognition. , 2021, , 119-126.		0
11	Neural Coding. , 2021, , 1-16.		0
12	Sensorimotor Integration. , 2021, , 53-65.		0
13	Fixational Eye Movements. , 2021, , 17-39.		0
14	Experimental test of Bayesian saccade targeting under reversed reading direction. Attention, Perception, and Psychophysics, 2020, 82, 1230-1240.	0.7	0
15	How spatial frequencies and color drive object search in real-world scenes: A new eye-movement corpus. Journal of Vision, 2020, 20, 8.	0.1	5
16	Bayesian parameter estimation for the SWIFT model of eye-movement control during reading. Journal of Mathematical Psychology, 2020, 95, 102313.	1.0	10
17	No exception from Bayes' rule: The presence and absence of the range effect for saccades explained. Journal of Vision, 2020, 20, 15.	0.1	5
18	Modeling the effects of perisaccadic attention on gaze statistics during scene viewing. Communications Biology, 2020, 3, 727.	2.0	14

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19	Discriminative Viewer Identification using Generative Models of Eye Gaze. Procedia Computer Science, 2020, 176, 1348-1357.	1.2	1
20	Task-dependence in scene perception: Head unrestrained viewing using mobile eye-tracking. Journal of Vision, 2020, 20, 3.	0.1	6
21	Modulation of oculomotor control during reading of mirrored and inverted texts. Scientific Reports, 2020, 10, 4210.	1.6	4
22	A mathematical model of local and global attention in natural scene viewing. PLoS Computational Biology, 2020, 16, e1007880.	1.5	10
23	Microsaccades: Empirical Research and Methodological Advances - Introduction to Part 1 of the Thematic Special Issue. Journal of Eye Movement Research, 2020, 12, .	0.5	0
24	Spatial statistics for gaze patterns in scene viewing: Effects of repeated viewing. Journal of Vision, 2019, 19, 5.	0.1	4
25	Disentangling bottom-up versus top-down and low-level versus high-level influences on eye movements over time. Journal of Vision, 2019, 19, 1.	0.1	29
26	Searchers adjust their eye-movement dynamics to target characteristics in natural scenes. Scientific Reports, 2019, 9, 1635.	1.6	14
27	The Effect of Visual Long-Term Memory on Eye Movements over Time. Journal of Vision, 2019, 19, 149a.	0.1	0
28	Predicting fixation densities over time from early visual processing. Journal of Vision, 2018, 18, 1210.	0.1	0
29	Reading from right to left: oculomotor adaptations. Journal of Vision, 2018, 18, 1015.	0.1	0
30	Revising the link between microsaccades and the spatial cueing of voluntary attention. Vision Research, 2017, 133, 47-60.	0.7	24
31	A self-avoiding walk with neural delays as a model of fixational eye movements. Scientific Reports, 2017, 7, 12958.	1.6	23
32	Gaze-contingent manipulation of the FVF demonstrates the importance of fixation duration for explaining search behavior. Behavioral and Brain Sciences, 2017, 40, e144.	0.4	0
33	Temporal evolution of the central fixation bias in scene viewing. Journal of Vision, 2017, 17, 3.	0.1	30
34	Likelihood-based parameter estimation and comparison of dynamical cognitive models Psychological Review, 2017, 124, 505-524.	2.7	26
35	We know what we can see - peripheral visibility of search targets shapes eye movement behavior in natural scenes. Journal of Vision, 2017, 17, 1120.	0.1	0
36	Testing an Early Vision Model on Natural Image Stimuli. Journal of Vision, 2017, 17, 783.	0.1	0

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37	Coupling of attention and saccades when viewing scenes with central and peripheral degradation. Journal of Vision, 2016, 16, 8.	0.1	19
38	Influence of initial fixation position in scene viewing. Vision Research, 2016, 129, 33-49.	0.7	15
39	Spatial frequency processing in the central and peripheral visual field during scene viewing. Vision Research, 2016, 127, 186-197.	0.7	48
40	Microsaccades Are Coupled to Heartbeat. Journal of Neuroscience, 2016, 36, 1237-1241.	1.7	51
41	Small saccades versus microsaccades: Experimental distinction and model-based unification. Vision Research, 2016, 118, 132-143.	0.7	23
42	No Evidence for a Saccadic Range Effect for Visually Guided and Memory-Guided Saccades in Simple Saccade-Targeting Tasks. PLoS ONE, 2016, 11, e0162449.	1.1	16
43	Reducing the central fixation bias: The influence of scene preview. Journal of Vision, 2016, 16, 331.	0.1	1
44	Attention correlates with saccade amplitude modulations caused by gaze-contingent filtering of the visual field. Journal of Vision, 2016, 16, 1274.	0.1	0
45	Spatial statistics and attentional dynamics in scene viewing. Journal of Vision, 2015, 15, 14-14.	0.1	77
46	Analysis of Attentional Bias towards Attractive and Unattractive Body Regions among Overweight Males and Females: An Eye-Movement Study. PLoS ONE, 2015, 10, e0140813.	1.1	19
47	O processamento da anáfora pronominal em crianças com transtorno de déficit de atenção e hiperatividade e em crianças disléxicas: um estudo através da análise dos movimentos oculares. Letras De Hoje, 2015, 50, 40.	0.0	1
48	A theoretical analysis of the perceptual span based on SWIFT simulations of the <i>n</i> + 2 boundary paradigm. Visual Cognition, 2014, 22, 283-308.	0.9	24
49	Microsaccadic Responses Indicate Fast Categorization of Sounds: A Novel Approach to Study Auditory Cognition. Journal of Neuroscience, 2014, 34, 11152-11158.	1.7	42
50	A model of saccadic landing positions in reading under the influence of sensory noise. Visual Cognition, 2014, 22, 334-353.	0.9	14
51	ICAT: a computational model for the adaptive control of fixation durations. Psychonomic Bulletin and Review, 2014, 21, 907-934.	1.4	39
52	Differentiating between Verbal and Spatial Encoding using Eye-Movement Recordings. Quarterly Journal of Experimental Psychology, 2013, 66, 1840-1857.	0.6	9
53	Control of fixation duration during scene viewing by interaction of foveal and peripheral processing. Journal of Vision, 2013, 13, 11-11.	0.1	40
54	A Framework for Modeling the Interaction of Syntactic Processing and Eye Movement Control. Topics in Cognitive Science, 2013, 5, 452-474.	1.1	36

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55	Evaluating a Computational Model of Eye-Movement Control in Reading. , 2013, , 153-178.		1
56	Modeling fixation locations using spatial point processes. Journal of Vision, 2013, 13, 1-1.	0.1	35
57	The zoom lens of attention: Simulating shuffled versus normal text reading using the SWIFT model. Visual Cognition, 2012, 20, 391-421.	0.9	118
58	Bayesian estimation of the scaling parameter of fixational eye movements. Europhysics Letters, 2012, 100, 40003.	0.7	2
59	Computational Modeling of Collicular Integration of Perceptual Responses and Attention in Microsaccades. Journal of Neuroscience, 2012, 32, 8035-8039.	1.7	53
60	Capture of the gaze does not capture the mind. Attention, Perception, and Psychophysics, 2012, 74, 1168-1182.	0.7	6
61	Fixation positions after skipping saccades: A single space makes a large difference. Attention, Perception, and Psychophysics, 2012, 74, 1556-1561.	0.7	6
62	Your mind wanders weakly, your mind wanders deeply: Objective measures reveal mindless reading at different levels. Cognition, 2012, 125, 179-194.	1.1	83
63	Eye movements in a sequential scanning task: Evidence for distributed processing. Journal of Vision, 2012, 12, 5-5.	0.1	23
64	Bayesian Selection of Markov Models for Symbol Sequences: Application to Microsaccadic Eye Movements. PLoS ONE, 2012, 7, e43388.	1.1	8
65	Saccadic facilitation by modulation of microsaccades in natural backgrounds. Attention, Perception, and Psychophysics, 2011, 73, 1029-1033.	0.7	10
66	An integrated model of fixational eye movements and microsaccades. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E765-70.	3.3	141
67	Parallel graded attention models of reading. , 2011, , .		23
68	CRISP: A computational model of fixation durations in scene viewing Psychological Review, 2010, 117, 382-405.	2.7	208
69	When do microsaccades follow spatial attention?. Attention, Perception, and Psychophysics, 2010, 72, 683-694.	0.7	66
70	Microsaccades are different from saccades in scene perception. Experimental Brain Research, 2010, 203, 753-757.	0.7	44
71	On the launch-site effect for skipped words during reading. Vision Research, 2010, 50, 1532-1539.	0.7	16
72	Eye movements during reading of randomly shuffled text. Vision Research, 2010, 50, 2600-2616.	0.7	24

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73	Readers Use Bayesian Estimation for Eye Movement Control. Psychological Science, 2010, 21, 366-371.	1.8	46
74	Microsaccade characterization using the continuous wavelet transform and principal component analysis. Journal of Eye Movement Research, 2010, 3, .	0.5	3
75	Noise-enhanced target discrimination under the influence of fixational eye movements and external noise. Chaos, 2009, 19, 015112.	1.0	6
76	Hypothesis test for synchronization: Twin surrogates revisited. Chaos, 2009, 19, 015108.	1.0	26
77	Mindless reading revisited: An analysis based on the SWIFT model of eye-movement control. Vision Research, 2009, 49, 322-336.	0.7	40
78	Microsaccadic modulation of response times in spatial attention tasks. Psychological Research, 2009, 73, 136-146.	1.0	36
79	Persistence and phase synchronisation properties of fixational eye movements. European Physical Journal: Special Topics, 2008, 161, 207-223.	1.2	12
80	Fixational eye movements predict the perceived direction of ambiguous apparent motion. Journal of Vision, 2008, 8, 13-13.	0.1	61
81	Toward a model of microsaccade generation: The case of microsaccadic inhibition. Journal of Vision, 2008, 8, 5-5.	0.1	189
82	Reconstruction of eye movements during blinks. Chaos, 2008, 18, 013126.	1.0	1
83	Self-Consistent Estimation of Mislocated Fixations during Reading. PLoS ONE, 2008, 3, e1534.	1.1	24
84	Microsaccades Are an Index of Covert Attention. Psychological Science, 2007, 18, 364-366.	1.8	59
85	Modeling the Control of Fixational Eye Movements with Neurophysiological Delays. Physical Review Letters, 2007, 98, 138104.	2.9	55
86	The IOVP effect in mindless reading: Experiment and modeling. Vision Research, 2007, 47, 990-1002.	0.7	62
87	Oculomotor control in a sequential search task. Vision Research, 2007, 47, 2426-2443.	0.7	26
88	An iterative algorithm for the estimation of the distribution of mislocated fixations during reading. , 2007, , 319-337.		7
89	Microsaccades: a microcosm for research on oculomotor control, attention, and visual perception. Progress in Brain Research, 2006, 154, 177-192.	0.9	267
90	Current advances in SWIFT. Cognitive Systems Research, 2006, 7, 23-33.	1.9	70

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91	Flick-Induced Flips in Perception. Neuron, 2006, 49, 168-170.	3.8	12
92	Tracking the mind during reading: The influence of past, present, and future words on fixation durations Journal of Experimental Psychology: General, 2006, 135, 12-35.	1.5	438
93	SWIFT explorations of age differences in eye movements during reading. Neuroscience and Biobehavioral Reviews, 2006, 30, 872-884.	2.9	79
94	Microsaccades are triggered by low retinal image slip. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7192-7197.	3.3	467
95	Phase-Synchronization Decay of Fixational Eye Movements. Annals of the New York Academy of Sciences, 2005, 1039, 484-488.	1.8	11
96	Fixation durations before word skipping in reading. Psychonomic Bulletin and Review, 2005, 12, 132-138.	1.4	68
97	Crossmodal coupling of oculomotor control and spatial attention in vision and audition. Experimental Brain Research, 2005, 166, 427-439.	0.7	92
98	Scaling of horizontal and vertical fixational eye movements. Physical Review E, 2005, 71, 031909.	0.8	31
99	SWIFT: A Dynamical Model of Saccade Generation During Reading Psychological Review, 2005, 112, 777-813.	2.7	811
100	Microsaccade dynamics during covert attention. Vision Research, 2005, 45, 721-730.	0.7	216
101	Mislocated fixations during reading and the inverted optimal viewing position effect. Vision Research, 2005, 45, 2201-2217.	0.7	152
102	Microsaccades Keep the Eyes' Balance During Fixation. Psychological Science, 2004, 15, 431-431.	1.8	196
103	Microsaccade Orientation Supports Attentional Enhancement Opposite a Peripheral Cue: Commentary on Tse, Sheinberg, and Logothetis (2003). Psychological Science, 2004, 15, 705-707.	1.8	67
104	COMPLEXITY OF EYE MOVEMENTS IN READING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 493-503.	0.7	16
105	Length, frequency, and predictability effects of words on eye movements in reading. European Journal of Cognitive Psychology, 2004, 16, 262-284.	1.3	430
106	Perception and motor control: The link between fixational eye movements and postural sway. Journal of Vision, 2004, 4, 655-655.	0.1	2
107	Noise-enhanced performance in reading. Neurocomputing, 2003, 50, 473-478.	3.5	12
108	Microsaccades uncover the orientation of covert attention. Vision Research, 2003, 43, 1035-1045.	0.7	1,097

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109	The game of word skipping: Who are the competitors?. Behavioral and Brain Sciences, 2003, 26, 481-482.	0.4	3
110	How tight is the link between lexical processing and saccade programs?. Behavioral and Brain Sciences, 2003, 26, 491-492.	0.4	6
111	Binocular Coordination in Microsaccades. , 2003, , 103-117.		31
112	SWIFT Explorations. , 2003, , 391-411.		17
113	Representational Models and Nonlinear Dynamics: Irreconcilable Approaches to Human Movement Timing and Coordination or Two Sides of the Same Coin? Introduction to the Special Issue on Movement Timing and Coordination. Brain and Cognition, 2002, 48, 1-6.	0.8	16
114	Synchronizing Movements with the Metronome: Nonlinear Error Correction and Unstable Periodic Orbits. Brain and Cognition, 2002, 48, 107-116.	0.8	7
115	The Effects of Expertise and Age on Rhythm Production: Adaptations to Timing and Sequencing Constraints. Brain and Cognition, 2002, 48, 179-194.	0.8	31
116	A dynamical model of saccade generation in reading based on spatially distributed lexical processing. Vision Research, 2002, 42, 621-636.	0.7	310
117	Testing for nonlinearity: the role of surrogate data. Chaos, Solitons and Fractals, 2002, 13, 79-84.	2.5	16
118	Age-specific problems in rhythmic timing Psychology and Aging, 2001, 16, 12-30.	1.4	41
119	Mathematical models of eye movements in reading: a possible role for autonomous saccades. Biological Cybernetics, 2001, 85, 77-87.	0.6	54
120	The fast and the slow of skilled bimanual rhythm production: Parallel versus integrated timing Journal of Experimental Psychology: Human Perception and Performance, 2000, 26, 206-233.	0.7	45
121	Tempo-induced transitions in polyrhythmic hand movements. Physical Review E, 1997, 56, 5823-5833.	0.8	47
122	Modeling Qualitative Changes in Bimanual Movements. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 1441-1450.	0.7	5
123	Symbolic dynamics of physiological synchronization: Examples from bimanual movements and cardiorespiratory interaction. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 973-984.	0.6	15
124	Chance and chaos in population biology—Models of recurrent epidemics and food chain dynamics. Chaos, Solitons and Fractals, 1994, 4, 1147-1169.	2.5	63
125	Synchronization Analysis and Recurrence in Complex Systems. , 0, , 231-264.		4