Guillaume S Masson

List of Publications by Year
in descending order

65 papers	2,042 citations	201674 27 h-index	254184 43 g-index
67 all docs	67 docs citations	67 times ranked	1489 citing authors

#	Article	IF	Citations
1	Speed estimation for visual tracking emerges dynamically from nonlinear frequency interactions. ENeuro, 2022, , ENEURO.0511-21.2022.	1.9	2
2	Sex differences in visuomotor tracking. Scientific Reports, 2020, 10, 11863.	3.3	18
3	A Normalization Mechanism for Estimating Visual Motion across Speeds and Scales. Current Biology, 2017, 27, 1514-1520.e3.	3.9	13
4	Recurrent network dynamics reconciles visual motion segmentation and integration. Scientific Reports, 2017, 7, 11270.	3.3	12
5	Visual stimulation quenches global alpha range activity in awake primate V4: a case study. Neurophotonics, 2017, 4, 031222.	3.3	1
6	Adaptive Motion Pooling and Diffusion for Optical Flow Computation. Lecture Notes in Computer Science, 2017, , 60-71.	1.3	1
7	The Flash-Lag Effect as a Motion-Based Predictive Shift. PLoS Computational Biology, 2017, 13, e1005068.	3.2	40
8	The relative contribution of noise and adaptation to competition during tri-stable motion perception. Journal of Vision, 2016, 16, 6.	0.3	16
9	Push-Pull Receptive Field Organization and Synaptic Depression: Mechanisms for Reliably Encoding Naturalistic Stimuli in V1. Frontiers in Neural Circuits, 2016, 10, 37.	2.8	35
10	Bio-inspired computer vision: Towards a synergistic approach of artificial and biological vision. Computer Vision and Image Understanding, 2016, 150, 1-30.	4.7	73
11	Behavioral characterization of prediction and internal models in adolescents with autistic spectrum disorders. Neuropsychologia, 2016, 91, 335-345.	1.6	18
12	Looking for symmetry: fixational eye movements are biased by image mirror symmetry. Journal of Neurophysiology, 2016, 116, 1250-1260.	1.8	11
13	Fixational saccades during grating detection and discrimination. Vision Research, 2016, 118, 105-118.	1.4	10
14	Decoding MT motion response for optical flow estimation: An experimental evaluation. , 2015, , .		3
15	Dynamic resolution of ambiguity during tri-stable motion perception. Vision Research, 2015, 107, 113-123.	1.4	5
16	V1 population activity represents global motion velocity of long-range apparent motion in the awake monkey. Journal of Vision, 2015, 15, 480.	0.3	0
17	Spatial phase dependence in motion mechanisms serving Ocular Following Responses. Journal of Vision, 2015, 15, 216.	0.3	0
18	Anticipation of an approaching bar by neuronal populations in awake monkey V1. Journal of Vision, 2015, 15, 479.	0.3	1

#	Article	IF	Citations
19	Motion-based prediction explains the role of tracking in motion extrapolation. Journal of Physiology (Paris), 2013, 107, 409-420.	2.1	23
20	Fixate and stabilize: shall the twain meet?. Nature Neuroscience, 2013, 16, 663-664.	14.8	0
21	Dynamic interaction between retinal and extraretinal signals in motion integration for smooth pursuit. Journal of Vision, 2013, 13, 5-5.	0.3	38
22	Anisotropic connectivity implements motion-based prediction in a spiking neural network. Frontiers in Computational Neuroscience, 2013, 7, 112.	2.1	13
23	Motion clouds: model-based stimulus synthesis of natural-like random textures for the study of motion perception. Journal of Neurophysiology, 2012, 107, 3217-3226.	1.8	32
24	Motion-Based Prediction Is Sufficient to Solve the Aperture Problem. Neural Computation, 2012, 24, 2726-2750.	2.2	19
25	Dynamics of Local Input Normalization Result from Balanced Short- and Long-Range Intracortical Interactions in Area V1. Journal of Neuroscience, 2012, 32, 12558-12569.	3.6	57
26	More is not always better: adaptive gain control explains dissociation between perception and action. Nature Neuroscience, 2012, 15, 1596-1603.	14.8	60
27	A processing work-flow for measuring erythrocytes velocity in extended vascular networks from wide field high-resolution optical imaging data. NeuroImage, 2012, 59, 2569-2588.	4.2	11
28	The behavioral receptive field underlying motion integration for primate tracking eye movements. Neuroscience and Biobehavioral Reviews, 2012, 36, 1-25.	6.1	51
29	Evaluating Motion Estimation Models from Behavioural and Psychophysical Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 483-496.	0.3	0
30	Linear model decomposition for voltage-sensitive dye imaging signals: Application in awake behaving monkey. NeuroImage, 2011, 54, 1196-1210.	4.2	28
31	A New Variational Method for Erythrocyte Velocity Estimation in Wide-Field ImagingIn Vivo. IEEE Transactions on Medical Imaging, 2011, 30, 1527-1545.	8.9	7
32	Pursuing motion illusions: A realistic oculomotor framework for Bayesian inference. Vision Research, 2011, 51, 867-880.	1.4	22
33	A Neural Field Model for Motion Estimation. Springer Proceedings in Mathematics, 2011, , 159-179.	0.5	3
34	Functional consequences of correlated excitatory and inhibitory conductances in cortical networks. Journal of Computational Neuroscience, 2010, 28, 579-594.	1.0	71
35	Inhibition of corneal neovascularization after alkali burn: comparison of different doses of bevacizumab in monotherapy or associated with dexamethasone. Clinical and Experimental Ophthalmology, 2010, 38, 346-352.	2.6	39
36	Modelling the dynamics of motion integration with a new luminance-gated diffusion mechanism. Vision Research, 2010, 50, 1676-1692.	1.4	33

#	Article	IF	Citations
37	Temporal Dynamics of 2D Motion Integration for Ocular Following in Macaque Monkeys. Journal of Neurophysiology, 2010, 103, 1275-1282.	1.8	23
38	Control of the temporal interplay between excitation and inhibition by the statistics of visual input. BMC Neuroscience, 2009, 10, .	1.9	2
39	Decoding the population dynamics underlying ocular following response using a probabilistic framework. BMC Neuroscience, 2009, 10, .	1.9	0
40	Action Recognition Using a Bio-Inspired Feedforward Spiking Network. International Journal of Computer Vision, 2009, 82, 284-301.	15.6	71
41	When the Brain Meets the Eye: Tracking Object Motion. , 2009, , 161-188.		3
42	Dynamics of distributed 1D and 2D motion representations for short-latency ocular following. Vision Research, 2008, 48, 501-522.	1.4	30
43	A quantification framework for post-lesion neo-vascularization in retinal angiography. , 2008, , .		5
44	Modeling spatial integration in the ocular following response using a probabilistic framework. Journal of Physiology (Paris), 2007, 101, 46-55.	2.1	10
45	Bayesian modeling of dynamic motion integration. Journal of Physiology (Paris), 2007, 101, 64-77.	2.1	42
46	Predicting 2D Target Velocity Cannot Help 2D Motion Integration for Smooth Pursuit Initiation. Journal of Neurophysiology, 2006, 96, 3545-3550.	1.8	28
47	Behavioral Receptive Field for Ocular Following in Humans: Dynamics of Spatial Summation and Center-Surround Interactions. Journal of Neurophysiology, 2006, 95, 3712-3726.	1.8	34
48	Influence of background illumination on fixation and visually guided saccades in the rhesus monkey. Vision Research, 2006, 46, 149-162.	1.4	32
49	Dynamics of attentional deployment during saccadic programming. Journal of Vision, 2006, 6, 2.	0.3	87
50	Object Motion Computation for the Initiation of Smooth Pursuit Eye Movements in Humans. Journal of Neurophysiology, 2005, 93, 2279-2293.	1.8	38
51	From 1D to 2D via 3D: dynamics of surface motion segmentation for ocular tracking in primates. Journal of Physiology (Paris), 2004, 98, 35-52.	2.1	32
52	Motion perception of saccade-induced retinal translation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15159-15163.	7.1	73
53	Parallel Motion Processing for the Initiation of Short-Latency Ocular Following in Humans. Journal of Neuroscience, 2002, 22, 5149-5163.	3.6	70
54	From Following Edges to Pursuing Objects. Journal of Neurophysiology, 2002, 88, 2869-2873.	1.8	67

#	Article	IF	Citations
55	â€˜Saccadic suppressionâ€™ â€“ no need for an active extra-retinal mechanism. Trends in Neurosciences, 2001, 24, 316-317.	8.6	36
56	Spatial scale of motion segmentation from speed cues. Vision Research, 2001, 41, 2697-2713.	1.4	24
57	Temporal dynamics of motion integration for the initiation of tracking eye movements at ultra-short latencies. Visual Neuroscience, 2000, 17, 753-767.	1.0	76
58	Motion perception during saccadic eye movements. Nature Neuroscience, 2000, 3, 177-183.	14.8	137
59	Speed tuning of motion segmentation and discrimination. Vision Research, 1999, 39, 4297-4308.	1.4	36
60	Visual Perception Modifies Goal-directed Movement Control: Supporting Evidence from a Visual Perturbation Paradigm. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 1997, 50, 726-741.	2.3	43
61	Postural effects of motion vision in young autistic children. NeuroReport, 1995, 6, 1211-1214.	1.2	109
62	Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans. Vision Research, 1995, 35, 837-852.	1.4	96
63	Low luminance contrast sensitivity: Effects of training on psychophysical and optokinetic nystagmus thresholds in man. Vision Research, 1994, 34, 1893-1899.	1.4	5
64	MODULATIONS OF THE OPTICAL FLOW DID NOT INDUCE LOCOMOTOR PATTERN FLUCTUATIONS IN TREADMILL WALKING IN MAN. Perceptual and Motor Skills, 1994, 78, 755-767.	1.3	3
65	Apomorphine-Induced Yawning in Migraine Patients. Clinical Neuropharmacology, 1991, 14, 91.	0.7	49