Martin A Giese

List of Publications by Year
in descending order

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77	4,579	147801	110387
papers	citations	31 h-index	64 g-index

81	81	81	4006
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neural mechanisms for the recognition of biological movements. Nature Reviews Neuroscience, 2003, 4, 179-192.	10.2	849
2	Norm-based face encoding by single neurons in the monkey inferotemporal cortex. Nature, 2006, 442, 572-575.	27.8	366
3	Nonvisual Motor Training Influences Biological Motion Perception. Current Biology, 2006, 16, 69-74.	3.9	360
4	Critical features for the perception of emotion from gait. Journal of Vision, 2009, 9, 15-15.	0.3	269
5	View-Based Encoding of Actions in Mirror Neurons of Area F5 in Macaque Premotor Cortex. Current Biology, 2011, 21, 144-148.	3.9	205
6	Specific influences of cerebellar dysfunctions on gait. Brain, 2007, 130, 786-798.	7.6	168
7	Video gameâ€“based coordinative training improves ataxia in children with degenerative ataxia. Neurology, 2012, 79, 2056-2060.	1.1	155
8	Longâ€term effects of coordinative training in degenerative cerebellar disease. Movement Disorders, 2010, 25, 2239-2246.	3.9	148
9	Neural representations of kinematic laws of motion: Evidence for action-perception coupling. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20582-20587.	7.1	134
10	Critical features for the recognition of biological motion. Journal of Vision, 2005, 5, 6.	0.3	124
11	Morphable Models for the Analysis and Synthesis of Complex Motion Patterns. International Journal of Computer Vision, 2000, 38, 59-73.	15.6	117
12	Mirror neurons encode the subjective value of an observed action. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11848-11853.	7.1	114
13	Validation of enhanced kinect sensor based motion capturing for gait assessment. PLoS ONE, 2017, 12, e0175813.	2.5	109
14	Neuronal Encoding of Human Kinematic Invariants during Action Observation. Cerebral Cortex, 2010, 20, 1647-1655.	2.9	82
15	Biophysiologically Plausible Implementations of the Maximum Operation. Neural Computation, 2002, 14, 2857-2881.	2.2	79
16	Learning to discriminate complex movements: Biological versus artificial trajectories. Journal of Vision, 2006, 6, 3.	0.3	76
17	Expression of emotion in the kinematics of locomotion. Experimental Brain Research, 2013, 225, 159-176.	1.5	75
18	Physiologically Inspired Model for the Visual Recognition of Transitive Hand Actions. Journal of Neuroscience, 2013, 33, 6563-6580.	3.6	75

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19	Neural and Computational Mechanisms of Action Processing: Interaction between Visual and Motor Representations. Neuron, 2015, 88, 167-180.	8.1	62
20	An analytical formulation of the law of intersegmental coordination during human locomotion. Experimental Brain Research, 2009, 193, 371-385.	1.5	59
21	Lifting the veil on the dynamics of neuronal activities evoked by transcranial magnetic stimulation. ELife, 2017, 6, .	6.0	51
22	Spatiotemporal Tuning of the Facilitation of Biological Motion Perception by Concurrent Motor Execution. Journal of Neuroscience, 2011, 31, 3493-3499.	3.6	47
23	Show me how you walk and I tell you how you feel â€" A functional near-infrared spectroscopy study on emotion perception based on human gait. NeuroImage, 2014, 85, 380-390.	4.2	47
24	Individualized exergame training improves postural control in advanced degenerative spinocerebellar ataxia: A rater-blinded, intra-individually controlled trial. Parkinsonism and Related Disorders, 2017, 39, 80-84.	2.2	45
25	An Intact Action-Perception Coupling Depends on the Integrity of the Cerebellum. Journal of Neuroscience, 2014, 34, 6707-6716.	3.6	43
26	Visual Learning Shapes the Processing of Complex Movement Stimuli in the Human Brain. Journal of Neuroscience, 2009, 29, 14026-14038.	3.6	42
27	A general family of morphed nonlinear phase oscillators with arbitrary limit cycle shape. Physica D: Nonlinear Phenomena, 2013, 263, 41-56.	2.8	42
28	Perceptual and computational analysis of critical features for biological motion. Journal of Vision, 2010, 10, 15-15.	0.3	41
29	ON THE REPRESENTATION, LEARNING AND TRANSFER OF SPATIO-TEMPORAL MOVEMENT CHARACTERISTICS. International Journal of Humanoid Robotics, 2004, 01, 613-636.	1.1	39
30	Functional dissociation between anterior temporal lobe and inferior frontal gyrus in the processing of dynamic body expressions: Insights from behavioral variant frontotemporal dementia. Human Brain Mapping, 2016, 37, 4472-4486.	3.6	39
31	Extraction of spatio-temporal primitives of emotional body expressions. Neurocomputing, 2007, 70, 1938-1942.	5.9	38
32	Effects of cerebellar lesions on working memory interacting with motor tasks of different complexities. Journal of Neurophysiology, 2013, 110, 2337-2349.	1.8	38
33	Common neural correlates of emotion perception in humans. Human Brain Mapping, 2015, 36, 4184-4201.	3.6	35
34	Lateral asymmetry of bodily emotion expression. Current Biology, 2008, 18, R329-R330.	3.9	34
35	Mirror Neurons in Monkey Premotor Area F5 Show Tuning for Critical Features of Visual Causality Perception. Current Biology, 2016, 26, 3077-3082.	3.9	32
36	Brain activity correlates with emotional perception induced by dynamic avatars. NeuroImage, 2015, 122, 306-317.	4.2	27

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37	Metrics of the perception of body movement. Journal of Vision, 2008, 8, 13-13.	0.3	25
38	Kinematics of the Coordination of Pointing during Locomotion. PLoS ONE, 2013, 8, e79555.	2.5	25
39	Nonlinear dynamics of direction-selective recurrent neural media. Physical Review E, 2002, 65, 051904.	2.1	24
40	Adaptive synthesis of dynamically feasible full-body movements for the humanoid robot HRP-2 by flexible combination of learned dynamic movement primitives. Robotics and Autonomous Systems, 2017, 91, 270-283.	5.1	22
41	Model selection for the extraction of movement primitives. Frontiers in Computational Neuroscience, 2013, 7, 185.	2.1	19
42	Neural theory for the perception of causal actions. Psychological Research, 2012, 76, 476-493.	1.7	18
43	Learning Representations of Animated Motion Sequencesâ€”A Neural Model. Topics in Cognitive Science, 2014, 6, 170-182.	1.9	18
44	Low-dimensional organization of angular momentum during walking on a narrow beam. Scientific Reports, 2018, 8, 95.	3.3	18
45	The Default Mode Network Differentiates Biological From Non-Biological Motion. Cerebral Cortex, 2016, 26, 234-245.	2.9	16
46	Real-Time Synthesis of Body Movements Based on Learned Primitives. Lecture Notes in Computer Science, 2009, , 107-127.	1.3	16
47	Adaptation aftereffects reveal representations for encoding of contingent social actions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7515-7520.	7.1	15
48	Dynamically stable control of articulated crowds. Journal of Computational Science, 2013, 4, 304-310.	2.9	10
49	Segmenting sign language into motor primitives with Bayesian binning. Frontiers in Computational Neuroscience, 2013, 7, 68.	2.1	10
50	A Naturalistic Dynamic Monkey Head Avatar Elicits Species-Typical Reactions and Overcomes the Uncanny Valley. ENeuro, 2020, 7, ENEURO.0524-19.2020.	1.9	9
51	A Neural Model for Biological Movement Recognition: A Neurophysiologically Plausible Theory. , 2004, , 443-470.		8
52	Features in the Recognition of Emotions from Dynamic Bodily Expression. , 2009, , 313-340.		6
53	Automatic Synthesis of Sequences of Human Movements by Linear Combination of Learned Example Patterns. Lecture Notes in Computer Science, 2002, , 538-547.	1.3	5
54	Coupling Gaussian Process Dynamical Models with Product-of-Experts Kernels. Lecture Notes in Computer Science, 2014, , 603-610.	1.3	5

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55	Motor expertise facilitates the accuracy of state extrapolation in perception. PLoS ONE, 2017, 12, e0187666.	2.5	4
56	Perceptual Robotics. , 2008, , 1481-1498.		4
57	Bio-inspired Approach for the Recognition of Goal-Directed Hand Actions. Lecture Notes in Computer Science, 2009, , 714-722.	1.3	4
58	Learning Representations for Animated Motion Sequence and Implied Motion Recognition. Lecture Notes in Computer Science, 2012, , 288-295.	1.3	4
59	Perceptual Robotics. , 2016, , 2095-2114.		3
60	Face Recognition: Canonical Mechanisms at Multiple Timescales. Current Biology, 2016, 26, R534-R537.	3.9	3
61	Interacting Learning Processes during Skill Acquisition: Learning to control with gradually changing system dynamics. Scientific Reports, 2017, 7, 13191.	3.3	3
62	Representation of the observerâ€™s predicted outcome value in mirror and nonmirror neurons of macaque F5 ventral premotor cortex. Journal of Neurophysiology, 2020, 124, 941-961.	1.8	3
63	Bayesian Approaches for Learning of Primitive-Based Compact Representations of Complex Human Activities. Springer Tracts in Advanced Robotics, 2016, , 117-137.	0.4	3
64	Neural Model for the Visual Recognition of Goal-Directed Movements. Lecture Notes in Computer Science, 2008, , 939-948.	1.3	3
65	Modeling of Coordinated Human Body Motion by Learning of Structured Dynamic Representations. Springer Tracts in Advanced Robotics, 2017, , 237-267.	0.4	2
66	Neural Model for the Visual Recognition of Animacy and Social Interaction. Lecture Notes in Computer Science, 2018, , 168-177.	1.3	2
67	Learning-based methods for the analysis of intralimb-coordination and adaptation of locomotor patterns in cerebellar patients. , 2007, , .		1
68	Probing dynamic human facial action recognition from the other side of the mean. , 2008, , .		1
69	View-independent recognition of grasping actions with a cortex-inspired model. , 2009, , .		1
70	Shape-invariant encoding of dynamic primate facial expressions in human perception. ELife, 2021, 10, .	6.0	1
71	Physiologically-Inspired Neural Circuits for the Recognition of Dynamic Faces. Lecture Notes in Computer Science, 2020, , 168-179.	1.3	1
72	Simulating mirror-neuron responses using a neural model for visual action recognition. BMC Neuroscience, 2008, 9, .	1.9	0

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73	Mirror representations innate versus determined by experience: A viewpoint from learning theory. Behavioral and Brain Sciences, 2014, 37, 201-202.	0.7	0
74	Neurodynamical model for visual action recognition. BMC Neuroscience, 2014, 15, .	1.9	0
75	Neural model of biological motion recognition based on shading cues. BMC Neuroscience, 2015, 16, .	1.9	0
76	Lighting-from-above prior in biological motion perception. Scientific Reports, 2018, 8, 1507.	3.3	0
77	Phenomenological Model for the Adapatation of Shape-Selective Neurons in Area IT. Lecture Notes in Computer Science, 2016, , 222-229.	1.3	0