

# Martin A Giese

## List of Publications by Year in descending order

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77  
papers

4,579  
citations

147801

31  
h-index

110387

64  
g-index

81  
all docs

81  
docs citations

81  
times ranked

4006  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-invariant encoding of dynamic primate facial expressions in human perception. <i>ELife</i> , 2021, 10, .	6.0	1
2	Representation of the observer's predicted outcome value in mirror and nonmirror neurons of macaque F5 ventral premotor cortex. <i>Journal of Neurophysiology</i> , 2020, 124, 941-961.	1.8	3
3	A Naturalistic Dynamic Monkey Head Avatar Elicits Species-Typical Reactions and Overcomes the Uncanny Valley. <i>ENeuro</i> , 2020, 7, ENEURO.0524-19.2020.	1.9	9
4	Physiologically-Inspired Neural Circuits for the Recognition of Dynamic Faces. <i>Lecture Notes in Computer Science</i> , 2020, , 168-179.	1.3	1
5	Lighting-from-above prior in biological motion perception. <i>Scientific Reports</i> , 2018, 8, 1507.	3.3	0
6	Low-dimensional organization of angular momentum during walking on a narrow beam. <i>Scientific Reports</i> , 2018, 8, 95.	3.3	18
7	Adaptation aftereffects reveal representations for encoding of contingent social actions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7515-7520.	7.1	15
8	Neural Model for the Visual Recognition of Animacy and Social Interaction. <i>Lecture Notes in Computer Science</i> , 2018, , 168-177.	1.3	2
9	Adaptive synthesis of dynamically feasible full-body movements for the humanoid robot HRP-2 by flexible combination of learned dynamic movement primitives. <i>Robotics and Autonomous Systems</i> , 2017, 91, 270-283.	5.1	22
10	Modeling of Coordinated Human Body Motion by Learning of Structured Dynamic Representations. <i>Springer Tracts in Advanced Robotics</i> , 2017, , 237-267.	0.4	2
11	Individualized exergame training improves postural control in advanced degenerative spinocerebellar ataxia: A rater-blinded, intra-individually controlled trial. <i>Parkinsonism and Related Disorders</i> , 2017, 39, 80-84.	2.2	45
12	Interacting Learning Processes during Skill Acquisition: Learning to control with gradually changing system dynamics. <i>Scientific Reports</i> , 2017, 7, 13191.	3.3	3
13	Lifting the veil on the dynamics of neuronal activities evoked by transcranial magnetic stimulation. <i>ELife</i> , 2017, 6, .	6.0	51
14	Motor expertise facilitates the accuracy of state extrapolation in perception. <i>PLoS ONE</i> , 2017, 12, e0187666.	2.5	4
15	Validation of enhanced kinect sensor based motion capturing for gait assessment. <i>PLoS ONE</i> , 2017, 12, e0175813.	2.5	109
16	The Default Mode Network Differentiates Biological From Non-Biological Motion. <i>Cerebral Cortex</i> , 2016, 26, 234-245.	2.9	16
17	Perceptual Robotics. , 2016, , 2095-2114.		3
18	Functional dissociation between anterior temporal lobe and inferior frontal gyrus in the processing of dynamic body expressions: Insights from behavioral variant frontotemporal dementia. <i>Human Brain Mapping</i> , 2016, 37, 4472-4486.	3.6	39

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19	Face Recognition: Canonical Mechanisms at Multiple Timescales. <i>Current Biology</i> , 2016, 26, R534-R537.	3.9	3
20	Mirror Neurons in Monkey Premotor Area F5 Show Tuning for Critical Features of Visual Causality Perception. <i>Current Biology</i> , 2016, 26, 3077-3082.	3.9	32
21	Bayesian Approaches for Learning of Primitive-Based Compact Representations of Complex Human Activities. <i>Springer Tracts in Advanced Robotics</i> , 2016, , 117-137.	0.4	3
22	Phenomenological Model for the Adapation of Shape-Selective Neurons in Area IT. <i>Lecture Notes in Computer Science</i> , 2016, , 222-229.	1.3	0
23	Neural model of biological motion recognition based on shading cues. <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0
24	Common neural correlates of emotion perception in humans. <i>Human Brain Mapping</i> , 2015, 36, 4184-4201.	3.6	35
25	Brain activity correlates with emotional perception induced by dynamic avatars. <i>NeuroImage</i> , 2015, 122, 306-317.	4.2	27
26	Neural and Computational Mechanisms of Action Processing: Interaction between Visual and Motor Representations. <i>Neuron</i> , 2015, 88, 167-180.	8.1	62
27	Learning Representations of Animated Motion Sequencesâ€”A Neural Model. <i>Topics in Cognitive Science</i> , 2014, 6, 170-182.	1.9	18
28	An Intact Action-Perception Coupling Depends on the Integrity of the Cerebellum. <i>Journal of Neuroscience</i> , 2014, 34, 6707-6716.	3.6	43
29	Mirror representations innate versus determined by experience: A viewpoint from learning theory. <i>Behavioral and Brain Sciences</i> , 2014, 37, 201-202.	0.7	0
30	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. <i>NeuroImage</i> , 2014, 85, 380-390.	4.2	47
31	Neurodynamical model for visual action recognition. <i>BMC Neuroscience</i> , 2014, 15, .	1.9	0
32	Coupling Gaussian Process Dynamical Models with Product-of-Experts Kernels. <i>Lecture Notes in Computer Science</i> , 2014, , 603-610.	1.3	5
33	Expression of emotion in the kinematics of locomotion. <i>Experimental Brain Research</i> , 2013, 225, 159-176.	1.5	75
34	A general family of morphed nonlinear phase oscillators with arbitrary limit cycle shape. <i>Physica D: Nonlinear Phenomena</i> , 2013, 263, 41-56.	2.8	42
35	Dynamically stable control of articulated crowds. <i>Journal of Computational Science</i> , 2013, 4, 304-310.	2.9	10
36	Physiologically Inspired Model for the Visual Recognition of Transitive Hand Actions. <i>Journal of Neuroscience</i> , 2013, 33, 6563-6580.	3.6	75

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37	Effects of cerebellar lesions on working memory interacting with motor tasks of different complexities. <i>Journal of Neurophysiology</i> , 2013, 110, 2337-2349.	1.8	38
38	Kinematics of the Coordination of Pointing during Locomotion. <i>PLoS ONE</i> , 2013, 8, e79555.	2.5	25
39	Segmenting sign language into motor primitives with Bayesian binning. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 68.	2.1	10
40	Model selection for the extraction of movement primitives. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 185.	2.1	19
41	Video game-based coordinative training improves ataxia in children with degenerative ataxia. <i>Neurology</i> , 2012, 79, 2056-2060.	1.1	155
42	Mirror neurons encode the subjective value of an observed action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11848-11853.	7.1	114
43	Neural theory for the perception of causal actions. <i>Psychological Research</i> , 2012, 76, 476-493.	1.7	18
44	Learning Representations for Animated Motion Sequence and Implied Motion Recognition. <i>Lecture Notes in Computer Science</i> , 2012, , 288-295.	1.3	4
45	View-Based Encoding of Actions in Mirror Neurons of Area F5 in Macaque Premotor Cortex. <i>Current Biology</i> , 2011, 21, 144-148.	3.9	205
46	Spatiotemporal Tuning of the Facilitation of Biological Motion Perception by Concurrent Motor Execution. <i>Journal of Neuroscience</i> , 2011, 31, 3493-3499.	3.6	47
47	Long-term effects of coordinative training in degenerative cerebellar disease. <i>Movement Disorders</i> , 2010, 25, 2239-2246.	3.9	148
48	Perceptual and computational analysis of critical features for biological motion. <i>Journal of Vision</i> , 2010, 10, 15-15.	0.3	41
49	Neuronal Encoding of Human Kinematic Invariants during Action Observation. <i>Cerebral Cortex</i> , 2010, 20, 1647-1655.	2.9	82
50	Visual Learning Shapes the Processing of Complex Movement Stimuli in the Human Brain. <i>Journal of Neuroscience</i> , 2009, 29, 14026-14038.	3.6	42
51	Critical features for the perception of emotion from gait. <i>Journal of Vision</i> , 2009, 9, 15-15.	0.3	269
52	An analytical formulation of the law of intersegmental coordination during human locomotion. <i>Experimental Brain Research</i> , 2009, 193, 371-385.	1.5	59
53	View-independent recognition of grasping actions with a cortex-inspired model. , 2009, , .		1
54	Features in the Recognition of Emotions from Dynamic Bodily Expression. , 2009, , 313-340.		6

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55	Real-Time Synthesis of Body Movements Based on Learned Primitives. Lecture Notes in Computer Science, 2009, , 107-127.	1.3	16
56	Bio-inspired Approach for the Recognition of Goal-Directed Hand Actions. Lecture Notes in Computer Science, 2009, , 714-722.	1.3	4
57	Simulating mirror-neuron responses using a neural model for visual action recognition. BMC Neuroscience, 2008, 9, .	1.9	0
58	Lateral asymmetry of bodily emotion expression. Current Biology, 2008, 18, R329-R330.	3.9	34
59	Probing dynamic human facial action recognition from the other side of the mean. , 2008, , .		1
60	Metrics of the perception of body movement. Journal of Vision, 2008, 8, 13-13.	0.3	25
61	Perceptual Robotics. , 2008, , 1481-1498.		4
62	Neural Model for the Visual Recognition of Goal-Directed Movements. Lecture Notes in Computer Science, 2008, , 939-948.	1.3	3
63	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
64	Specific influences of cerebellar dysfunctions on gait. Brain, 2007, 130, 786-798.	7.6	168
65	Learning-based methods for the analysis of intralimb-coordination and adaptation of locomotor patterns in cerebellar patients. , 2007, , .		1
66	Extraction of spatio-temporal primitives of emotional body expressions. Neurocomputing, 2007, 70, 1938-1942.	5.9	38
67	Learning to discriminate complex movements: Biological versus artificial trajectories. Journal of Vision, 2006, 6, 3.	0.3	76
68	Norm-based face encoding by single neurons in the monkey inferotemporal cortex. Nature, 2006, 442, 572-575.	27.8	366
69	Nonvisual Motor Training Influences Biological Motion Perception. Current Biology, 2006, 16, 69-74.	3.9	360
70	Critical features for the recognition of biological motion. Journal of Vision, 2005, 5, 6.	0.3	124
71	ON THE REPRESENTATION, LEARNING AND TRANSFER OF SPATIO-TEMPORAL MOVEMENT CHARACTERISTICS. International Journal of Humanoid Robotics, 2004, 01, 613-636.	1.1	39
72	A Neural Model for Biological Movement Recognition: A Neurophysiologically Plausible Theory. , 2004, , 443-470.		8

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73	Neural mechanisms for the recognition of biological movements. <i>Nature Reviews Neuroscience</i> , 2003, 4, 179-192.	10.2	849
74	Nonlinear dynamics of direction-selective recurrent neural media. <i>Physical Review E</i> , 2002, 65, 051904.	2.1	24
75	Biophysically Plausible Implementations of the Maximum Operation. <i>Neural Computation</i> , 2002, 14, 2857-2881.	2.2	79
76	Automatic Synthesis of Sequences of Human Movements by Linear Combination of Learned Example Patterns. <i>Lecture Notes in Computer Science</i> , 2002, , 538-547.	1.3	5
77	Morphable Models for the Analysis and Synthesis of Complex Motion Patterns. <i>International Journal of Computer Vision</i> , 2000, 38, 59-73.	15.6	117