

# Ferdinando A Mussa-Ivaldi

## List of Publications by Year in descending order

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36  
papers

1,411  
citations

567281

15  
h-index

434195

31  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1099  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Motor System Does Not Learn the Dynamics of the Arm by Rote Memorization of Past Experience. <i>Journal of Neurophysiology</i> , 1997, 78, 554-560.	1.8	386
2	Learning to Move Amid Uncertainty. <i>Journal of Neurophysiology</i> , 2001, 86, 971-985.	1.8	361
3	Sequence, time, or state representation: how does the motor control system adapt to variable environments?. <i>Biological Cybernetics</i> , 2003, 89, 10-21.	1.3	67
4	A Regression and Boundary-Crossing-Based Model for the Perception of Delayed Stiffness. <i>IEEE Transactions on Haptics</i> , 2008, 1, 73-82.	2.7	60
5	Real brains for real robots. <i>Nature</i> , 2000, 408, 305-306.	27.8	55
6	Learning Redundant Motor Tasks with and without Overlapping Dimensions: Facilitation and Interference Effects. <i>Journal of Neuroscience</i> , 2014, 34, 8289-8299.	3.6	52
7	White matter microstructure changes induced by motor skill learning utilizing a body machine interface. <i>NeuroImage</i> , 2014, 88, 32-40.	4.2	37
8	Probing Virtual Boundaries and the Perception of Delayed Stiffness. <i>Advanced Robotics</i> , 2008, 22, 119-140.	1.8	30
9	Sensory motor remapping of space in human-machine interfaces. <i>Progress in Brain Research</i> , 2011, 191, 45-64.	1.4	28
10	Remapping residual coordination for controlling assistive devices and recovering motor functions. <i>Neuropsychologia</i> , 2015, 79, 364-376.	1.6	27
11	Using noise to shape motor learning. <i>Journal of Neurophysiology</i> , 2017, 117, 728-737.	1.8	26
12	Adaptation to visual feedback delay in a redundant motor task. <i>Journal of Neurophysiology</i> , 2015, 113, 426-433.	1.8	24
13	The dynamics of motor learning through the formation of internal models. <i>PLoS Computational Biology</i> , 2019, 15, e1007118.	3.2	22
14	Adaptation to Delayed Force Perturbations in Reaching Movements. <i>PLoS ONE</i> , 2010, 5, e12128.	2.5	21
15	Stretching the skin immediately enhances perceived stiffness and gradually enhances the predictive control of grip force. <i>ELife</i> , 2020, 9, .	6.0	21
16	Learning new movements after paralysis: Results from a home-based study. <i>Scientific Reports</i> , 2017, 7, 4779.	3.3	18
17	State-Based Delay Representation and Its Transfer from a Game of Pong to Reaching and Tracking. <i>ENeuro</i> , 2017, 4, ENEURO.0179-17.2017.	1.9	18
18	Learning to push and learning to move: the adaptive control of contact forces. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 118.	2.1	17

#	ARTICLE	IF	CITATIONS
19	Body-Machine Interfaces after Spinal Cord Injury: Rehabilitation and Brain Plasticity. <i>Brain Sciences</i> , 2016, 6, 61.	2.3	16
20	Sensory Agreement Guides Kinetic Energy Optimization of Arm Movements during Object Manipulation. <i>PLoS Computational Biology</i> , 2016, 12, e1004861.	3.2	16
21	A Bidirectional Brain-Machine Interface Algorithm That Approximates Arbitrary Force-Fields. <i>PLoS ONE</i> , 2014, 9, e91677.	2.5	14
22	The Mechanical Representation of Temporal Delays. <i>Scientific Reports</i> , 2017, 7, 7669.	3.3	14
23	Representing delayed force feedback as a combination of current and delayed states. <i>Journal of Neurophysiology</i> , 2017, 118, 2110-2131.	1.8	14
24	Comparing two computational mechanisms for explaining functional recovery in robot-therapy of stroke survivors. , 2012, 2012, 1488-1493.		11
25	Building an adaptive interface via unsupervised tracking of latent manifolds. <i>Neural Networks</i> , 2021, 137, 174-187.	5.9	11
26	Effects of visuomotor delays on the control of movement and on perceptual localization in the presence and absence of visual targets. <i>Journal of Neurophysiology</i> , 2019, 122, 2259-2271.	1.8	7
27	Recovery of Distal Arm Movements in Spinal Cord Injured Patients with a Body-Machine Interface: A Proof-of-Concept Study. <i>Sensors</i> , 2021, 21, 2243.	3.8	6
28	Energy exchanges at contact events guide sensorimotor integration. <i>ELife</i> , 2018, 7, .	6.0	6
29	Emergence of symmetric, modular, and reciprocal connections in recurrent networks with Hebbian learning. <i>Biological Cybernetics</i> , 1999, 81, 211-225.	1.3	5
30	Perceptuo-Motor Transparency in Bilateral Teleoperation. , 2008, , .		4
31	Unsupervised Coadaptation of an Assistive Interface to Facilitate Sensorimotor Learning of Redundant Control. , 2018, , .		4
32	Neglect-Like Effects on Drawing Symmetry Induced by Adaptation to a Laterally Asymmetric Visuomotor Delay. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 335.	2.0	4
33	Reorganization of motor function and space representation in body machine interfaces. , 2012, , .		3
34	Simultaneity in Perception of Knocking. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2012, 42, 920-930.	2.9	2
35	Adaptation to Laterally Asymmetrical Visuomotor Delay Has an Effect on Action But Not on Perception. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 312.	2.0	2
36	Negative viscosity can enhance learning of inertial dynamics. , 2009, 2009, 474-479.		1