Martin J Pearson

List of Publications by Year
in descending order

22 papers	524 citations	933447 10 h-index	996975 15 g-index
26 all docs	26 docs citations	26 times ranked	429 citing authors

#	Article	IF	Citations
1	A Spiking Neural Network Model of Rodent Head Direction Calibrated With Landmark Free Learning. Frontiers in Neurorobotics, 2022, 16, .	2.8	2
2	A multizone cerebellar chip for bioinspired adaptive robot control and sensorimotor processing. Journal of the Royal Society Interface, 2021, 18, 20200750.	3.4	3
3	Multimodal Representation Learning for Place Recognition Using Deep Hebbian Predictive Coding. Frontiers in Robotics and AI, 2021, 8, 732023.	3.2	15
4	ViTa-SLAM: A Bio-inspired Visuo-Tactile SLAM for Navigation while Interacting with Aliased Environments. , 2019, , .		11
5	Active Whisker Placement and Exploration For Rapid Object Recognition. , 2019, , .		5
6	Fast, Flexible Closed-Loop Feedback: Tracking Movement in â€œReal-Millisecond-Timeâ€. ENeuro, 2019, 6, ENEURO.0147-19.2019.	1.9	20
7	Audio Localization for Robots Using Parallel Cerebellar Models. IEEE Robotics and Automation Letters, 2018, 3, 3185-3192.	5.1	3
8	Performance evaluation using Markov model for a novel approach in Ethernet based embedded networked control communication. , 2016, , .		2
9	Cerebellar-inspired algorithm for adaptive control of nonlinear dielectric elastomer-based artificial muscle. Journal of the Royal Society Interface, 2016, 13, 20160547.	3.4	26
10	Biohybrid Control of General Linear Systems Using the Adaptive Filter Model of Cerebellum. Frontiers in Neurorobotics, 2015, 9, 5.	2.8	11
11	Simultaneous localisation and mapping on a multi-degree of freedom biomimetic whiskered robot. , 2013, , .		19
12	Contact sensing in a bio-inspired whisker driven by electroactive polymer artificial muscles. , 2013, , .		7
13	Tactile SLAM with a biomimetic whiskered robot. , 2012, , .		31
14	Tactile Discrimination Using Active Whisker Sensors. IEEE Sensors Journal, 2012, 12, 350-362.	4.7	62
15	Whiskered texture classification with uncertain contact pose geometry. , 2012, , .		4
16	An Internal Model Architecture for Novelty Detection: Implications for Cerebellar and Collicular Roles in Sensory Processing. PLoS ONE, 2012, 7, e44560.	2.5	28
17	Biomimetic vibrissal sensing for robots. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3085-3096.	4.0	91
18	Naive Bayes novelty detection for a moving robot with whiskers. , 2010, , .		12

#	Article	IF	Citations
19	Whisker-object contact speed affects radial distance estimation. , 2010, , .		18
20	Adaptive Cancelation of Self-Generated Sensory Signals in a Whisking Robot. IEEE Transactions on Robotics, 2010, 26, 1065-1076.	10.3	29
21	Contact type dependency of texture classification inÂaÂwhiskered mobile robot. Autonomous Robots, 2009, 26, 223-239.	4.8	45
22	Whiskerbot: A Robotic Active Touch System Modeled on the Rat Whisker Sensory System. Adaptive Behavior, 2007, 15, 223-240.	1.9	77