John A Perrone

List of Publications by Year in descending order

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29	1,277	430874	677142
papers	citations	18 h-index	22 g-index

29	29	29	659
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generalization Approach for CNN-based Object Detection in Unconstrained Outdoor Environments. , 2019, , .		2
2	Using the Properties of Primate Motion Sensitive Neurons to Extract Camera Motion and Depth from Brief 2-D Monocular Image Sequences. Lecture Notes in Computer Science, 2019, , 600-612.	1.3	0
3	Testing a Biologically-Based System for Extracting Depth from Brief Monocular 2-D Video Sequences. , 2018, , .		1
4	Visualâ€“vestibular estimation of the body's curvilinear motion through the world: A computational model. Journal of Vision, 2018, 18, 1.	0.3	11
5	Fixating on the size-speed illusion of approaching railway trains: What we can learn from our eye movements. Accident Analysis and Prevention, 2017, 99, 110-113.	5.7	1
6	The Effect of Differences in Day and Night Lighting Distributions on Drivers' Speed Perception. Perception, 2017, 46, 728-744.	1.2	1
7	Estimating heading direction from monocular video sequences using biologically-based sensors. , 2016, , .		3
8	The role of eye movements in the size-speed illusion of approaching trains. Accident Analysis and Prevention, 2016, 86, 146-154.	5.7	8
9	Redundancy reduction explains the expansion of visual direction space around the cardinal axes. Vision Research, 2015, 111, 31-42.	1.4	0
10	Simulating component-to-pattern dynamic effects with a computer model of middle temporal pattern neurons. Journal of Vision, 2014, 14, 19-19.	0.3	2
11	An illusory sizeâ€“speed bias and railway crossing collisions. Accident Analysis and Prevention, 2013, 55, 226-231.	5.7	27
12	A neural-based code for computing image velocity from small sets of middle temporal (MT/V5) neuron inputs. Journal of Vision, 2012, 12, 1-1.	0.3	31
13	The role of looming and attention capture in driversâ€™ braking responses. Accident Analysis and Prevention, 2008, 40, 1375-1382.	5.7	37
14	Spatial integration by MT pattern neurons: A closer look at pattern-to-component effects and the role of speed tuning. Journal of Vision, 2008, 8, 1-1.	0.3	44
15	Vector subtraction using visual and extraretinal motion signals: A new look at efference copy and corollary discharge theories. Journal of Vision, 2008, 8, 24-24.	0.3	24
16	A Single Mechanism Can Explain the Speed Tuning Properties of MT and V1 Complex Neurons. Journal of Neuroscience, 2006, 26, 11987-11991.	3.6	22
17	Economy of scale: A motion sensor with variable speed tuning. Journal of Vision, 2005, 5, 3.	0.3	34
18	A visual motion sensor based on the properties of V1 and MT neurons. Vision Research, 2004, 44, 1733-1755.	1.4	53

#	Article	IF	Citations
19	A model of speed tuning in MT neurons. Vision Research, 2002, 42, 1035-1051.	1.4	79
20	Speed skills: measuring the visual speed analyzing properties of primate MT neurons. Nature Neuroscience, 2001, 4, 526-532.	14.8	216
21	A Closer Look at the Visual Input to Self-Motion Estimation. , 2001, , 169-179.		2
22	Emulating the Visual Receptive-Field Properties of MST Neurons with a Template Model of Heading Estimation. Journal of Neuroscience, 1998, 18, 5958-5975.	3.6	76
23	Human Heading Estimation During Visually Simulated Curvilinear Motion. Vision Research, 1997, 37, 573-590.	1.4	92
24	A model of self-motion estimation within primate extrastriate visual cortex. Vision Research, 1994, 34, 2917-2938.	1.4	225
25	Model for the computation of self-motion in biological systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 177.	1.5	159
26	Simple technique for optical flow estimation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 264.	1.5	29
27	Anisotropic responses to motion toward and away from the eye. Perception & Psychophysics, 1986, 39, 1-8.	2.3	38
28	Visual Slant Underestimation: A General Model. Perception, 1982, 11, 641-654.	1.2	36
29	Slant Underestimation: A Model Based on the Size of the Viewing Aperture. Perception, 1980, 9, 285-302.	1.2	24