Tai Sing Lee

List of Publications by Year
in descending order

26 papers	3,730 citations	471509 17 h-index	610901 24 g-index
26 all docs	26 docs citations	26 times ranked	3176 citing authors

#	Article	IF	Citations
1	Neural Correlate of Visual Familiarity in Macaque Area V2. Journal of Neuroscience, 2018, 38, 8967-8975.	3.6	18
2	Evidence of Stereoscopic Surface Disambiguation in the Responses of V1 Neurons. Cerebral Cortex, 2017, 27, bhw064.	2.9	6
3	Relating functional connectivity in V1 neural circuits and 3D natural scenes using Boltzmann machines. Vision Research, 2016, 120, 121-131.	1.4	4
4	The Visual System's Internal Model of the World. Proceedings of the IEEE, 2015, 103, 1359-1378.	21.3	20
5	Recurrent Connectivity Can Account for the Dynamics of Disparity Processing in V1. Journal of Neuroscience, 2013, 33, 2934-2946.	3.6	25
6	Relative luminance and binocular disparity preferences are correlated in macaque primary visual cortex, matching natural scene statistics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6313-6318.	7.1	36
7	Neural dynamics of image representation in the primary visual cortex. Journal of Physiology (Paris), 2012, 106, 250-265.	2.1	2
8	Local field potentials indicate network state and account for neuronal response variability. Journal of Computational Neuroscience, 2010, 29, 567-579.	1.0	92
9	Accounting for network effects in neuronal responses using L1 regularized point process models. Advances in Neural Information Processing Systems, 2010, 23, 1099-1107.	2.8	9
10	Cooperative and Competitive Interactions Facilitate Stereo Computations in Macaque Primary Visual Cortex. Journal of Neuroscience, 2009, 29, 15780-15795.	3.6	33
11	14-3-3. , 2008, , 1-1.		2
12	Comparison of Recordings from Microelectrode Arrays and Single Electrodes in the Visual Cortex. Journal of Neuroscience, 2007, 27, 261-264.	3.6	181
13	Dynamics of Response to Perceptual Pop-Out Stimuli in Macaque V1. Journal of Neurophysiology, 2007, 98, 3436-3449.	1.8	19
14	The role of early visual cortex in visual integration: a neural model of recurrent interaction. European Journal of Neuroscience, 2004, 20, 1089-1100.	2.6	62
15	Computations in the early visual cortex. Journal of Physiology (Paris), 2003, 97, 121-139.	2.1	55
16	Statistical correlations between two-dimensional images and three-dimensional structures in natural scenes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1292.	1.5	71
17	Hierarchical Bayesian inference in the visual cortex. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1434.	1.5	1,085
18	Top-down influence in early visual processing: a Bayesian perspective. Physiology and Behavior, 2002, 77, 645-650.	2.1	39

#	Article	IF	Citations
19	A unified model of spatial and object attention based on inter-cortical biased competition. Neurocomputing, 2002, 44-46, 775-781.	5.9	54
20	Neural activity in early visual cortex reflects behavioral experience and higher-order perceptual saliency. Nature Neuroscience, 2002, 5, 589-597.	14.8	191
21	Neural activity in early visual cortex reflects behavioral experience and higher-order perceptual saliency. Nature Neuroscience, 2002, 5, 589-597.	14.8	37
22	A Hierarchical Markov Random Field Model for Figure-Ground Segregation. Lecture Notes in Computer Science, 2001, , 118-133.	1.3	16
23	A Bayesian decision approach to evaluate local and contextual information in spike trains. Neurocomputing, 2000, 32-33, 1013-1020.	5.9	1
24	The role of the primary visual cortex in higher level vision. Vision Research, 1998, 38, 2429-2454.	1.4	471
25	Image representation using 2D Gabor wavelets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 959-971.	13.9	1,156
26	A Bayesian framework for understanding texture segmentation in the primary visual cortex. Vision Research, 1995, 35, 2643-2657.	1.4	45