

Tai Sing Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11326166/publications.pdf>

Version: 2024-02-01

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	Image representation using 2D Gabor wavelets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996, 18, 959-971.	13.9	1,156
2	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
3	The role of the primary visual cortex in higher level vision. Vision Research, 1998, 38, 2429-2454.	1.4	471
4	Neural activity in early visual cortex reflects behavioral experience and higher-order perceptual saliency. Nature Neuroscience, 2002, 5, 589-597.	14.8	191
5	Comparison of Recordings from Microelectrode Arrays and Single Electrodes in the Visual Cortex. Journal of Neuroscience, 2007, 27, 261-264.	3.6	181
6	Local field potentials indicate network state and account for neuronal response variability. Journal of Computational Neuroscience, 2010, 29, 567-579.	1.0	92
7	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
8	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
9	Computations in the early visual cortex. Journal of Physiology (Paris), 2003, 97, 121-139.	2.1	55
10	A unified model of spatial and object attention based on inter-cortical biased competition. Neurocomputing, 2002, 44-46, 775-781.	5.9	54
11	A Bayesian framework for understanding texture segmentation in the primary visual cortex. Vision Research, 1995, 35, 2643-2657.	1.4	45
12	Top-down influence in early visual processing: a Bayesian perspective. Physiology and Behavior, 2002, 77, 645-650.	2.1	39
13	Neural activity in early visual cortex reflects behavioral experience and higher-order perceptual saliency. Nature Neuroscience, 2002, 5, 589-597.	14.8	37
14	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
15	Cooperative and Competitive Interactions Facilitate Stereo Computations in Macaque Primary Visual Cortex. Journal of Neuroscience, 2009, 29, 15780-15795.	3.6	33
16	Recurrent Connectivity Can Account for the Dynamics of Disparity Processing in V1. Journal of Neuroscience, 2013, 33, 2934-2946.	3.6	25
17	The Visual System's Internal Model of the World. Proceedings of the IEEE, 2015, 103, 1359-1378.	21.3	20
18	Dynamics of Response to Perceptual Pop-Out Stimuli in Macaque V1. Journal of Neurophysiology, 2007, 98, 3436-3449.	1.8	19

#	ARTICLE	IF	CITATIONS
19	Neural Correlate of Visual Familiarity in Macaque Area V2. <i>Journal of Neuroscience</i> , 2018, 38, 8967-8975.	3.6	18
20	A Hierarchical Markov Random Field Model for Figure-Ground Segregation. <i>Lecture Notes in Computer Science</i> , 2001, , 118-133.	1.3	16
21	Accounting for network effects in neuronal responses using L1 regularized point process models. <i>Advances in Neural Information Processing Systems</i> , 2010, 23, 1099-1107.	2.8	9
22	Evidence of Stereoscopic Surface Disambiguation in the Responses of V1 Neurons. <i>Cerebral Cortex</i> , 2017, 27, bhw064.	2.9	6
23	Relating functional connectivity in V1 neural circuits and 3D natural scenes using Boltzmann machines. <i>Vision Research</i> , 2016, 120, 121-131.	1.4	4
24	14-3-3. , 2008, , 1-1.		2
25	Neural dynamics of image representation in the primary visual cortex. <i>Journal of Physiology (Paris)</i> , 2012, 106, 250-265.	2.1	2
26	A Bayesian decision approach to evaluate local and contextual information in spike trains. <i>Neurocomputing</i> , 2000, 32-33, 1013-1020.	5.9	1