

Masafumi Oizumi

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,203
citations

840585

11
h-index

501076

28
g-index

33
all docs

33
docs citations

33
times ranked

911
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Quantifying brain state transition cost via Schrödinger Bridge. <i>Network Neuroscience</i> , 2022, 6, 118-134. | 1.4 | 4 |
| 2 | Information flow in the rat thalamo-cortical system: spontaneous vs. stimulus-evoked activities. <i>Scientific Reports</i> , 2021, 11, 19252. | 1.6 | 1 |
| 3 | A general spectral decomposition of causal influences applied to integrated information. <i>Journal of Neuroscience Methods</i> , 2020, 330, 108443. | 1.3 | 12 |
| 4 | Efficient search for informational cores in complex systems: Application to brain networks. <i>Neural Networks</i> , 2020, 132, 232-244. | 3.3 | 10 |
| 5 | Unified framework for the entropy production and the stochastic interaction based on information geometry. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 22 |
| 6 | Information Geometry for Regularized Optimal Transport and Barycenters of Patterns. <i>Neural Computation</i> , 2019, 31, 827-848. | 1.3 | 16 |
| 7 | Statistical neurodynamics of deep networks: geometry of signal spaces. <i>Nonlinear Theory and Its Applications IEICE</i> , 2019, 10, 322-336. | 0.4 | 1 |
| 8 | Geometry of Information Integration. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 3-17. | 0.1 | 3 |
| 9 | Fast and exact search for the partition with minimal information loss. <i>PLoS ONE</i> , 2018, 13, e0201126. | 1.1 | 20 |
| 10 | Efficient Algorithms for Searching the Minimum Information Partition in Integrated Information Theory. <i>Entropy</i> , 2018, 20, 173. | 1.1 | 28 |
| 11 | Information geometry connecting Wasserstein distance and Kullback-Leibler divergence via the entropy-relaxed transportation problem. <i>Information Geometry</i> , 2018, 1, 13-37. | 0.8 | 41 |
| 12 | Conscious Perception as Integrated Information Patterns in Human Electroencephalography. <i>ENeuro</i> , 2017, 4, ENEURO.0085-17.2017. | 0.9 | 28 |
| 13 | Unified framework for information integration based on information geometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14817-14822. | 3.3 | 92 |
| 14 | Measuring Integrated Information from the Decoding Perspective. <i>PLoS Computational Biology</i> , 2016, 12, e1004654. | 1.5 | 107 |
| 15 | Stimulus Set Meaningfulness and Neurophysiological Differentiation: A Functional Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2015, 10, e0125337. | 1.1 | 69 |
| 16 | From the Phenomenology to the Mechanisms of Consciousness: Integrated Information Theory 3.0. <i>PLoS Computational Biology</i> , 2014, 10, e1003588. | 1.5 | 657 |
| 17 | A Leaky-Integrator Model as a Control Mechanism Underlying Flexible Decision Making during Task Switching. <i>PLoS ONE</i> , 2013, 8, e59670. | 1.1 | 7 |
| 18 | Theory of correlation in a network with synaptic depression. <i>Physical Review E</i> , 2012, 85, 016108. | 0.8 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Functional Differences between Global Pre- and Postsynaptic Inhibition in the Drosophila Olfactory Circuit. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 14. | 1.2 | 6 |
| 20 | Information Loss Associated with Imperfect Observation and Mismatched Decoding. <i>Frontiers in Computational Neuroscience</i> , 2011, 5, 9. | 1.2 | 9 |
| 21 | Influence of Synaptic Depression on Memory Storage Capacity. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 084004. | 0.7 | 3 |
| 22 | Instabilities in Associative Memory Model with Synaptic Depression and Switching Phenomena among Attractors. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 084002. | 0.7 | 6 |
| 23 | Mechanisms of Maximum Information Preservation in the Drosophila Antennal Lobe. <i>PLoS ONE</i> , 2010, 5, e10644. | 1.1 | 7 |
| 24 | Mismatched Decoding in the Brain. <i>Journal of Neuroscience</i> , 2010, 30, 4815-4826. | 1.7 | 34 |
| 25 | Analytical investigation of the effects of lateral connections on the accuracy of population coding. <i>Physical Review E</i> , 2010, 81, 051905. | 0.8 | 2 |
| 26 | Mean Field Analysis of Stochastic Neural Network Models with Synaptic Depression. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 084001. | 0.7 | 7 |
| 27 | Statistical mechanics of attractor neural network models with synaptic depression. <i>Journal of Physics: Conference Series</i> , 2009, 197, 012018. | 0.3 | 2 |
| 28 | Rate Reduction for Associative Memory Model in Hodgkin-Huxley-Type Network. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 064802. | 0.7 | 0 |
| 29 | Higher Order Effects on Rate Reduction for Networks of Hodgkin-Huxley Neurons. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 044803. | 0.7 | 6 |