Eli Shlizerman

List of Publications by Year
in descending order

38 papers	777 citations	686830 13 h-index	642321 23 g-index
43 all docs	43 docs citations	43 times ranked	693 citing authors

#	Article	IF	Citations
1	Knowledge distillation circumvents nonlinearity for optical convolutional neural networks. Applied Optics, 2022, 61, 2173.	0.9	8
2	Statistical Perspective on Functional and Causal Neural Connectomics: A Comparative Study. Frontiers in Systems Neuroscience, 2022, 16, 817962.	1.2	5
3	Driving the connectome by-wire. Physics of Life Reviews, 2020, 33, 25-27.	1.5	1
4	PREDICT & CLUSTER: Unsupervised Skeleton Based Action Recognition. , 2020, , .		95
5	Clustering and Recognition of Spatiotemporal Features Through Interpretable Embedding of Sequence to Sequence Recurrent Neural Networks. Frontiers in Artificial Intelligence, 2020, 3, 70.	2.0	4
6	Neural Interactome: Interactive Simulation of a Neuronal System. Frontiers in Computational Neuroscience, 2019, 13, 8.	1.2	17
7	Audio to Body Dynamics. , 2018, , .		80
8	Functional connectomics from neural dynamics: probabilistic graphical models for neuronal network of *Caenorhabditis elegans*. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170377.	1.8	14
9	Multistability and Long-Timescale Transients Encoded by Network Structure in a Model of C. elegans Connectome Dynamics. Frontiers in Computational Neuroscience, 2017, 11, 53.	1.2	14
10	Classification of Fixed Point Network Dynamics from Multiple Node Timeseries Data. Frontiers in Neuroinformatics, 2017, 11, 58.	1.3	3
11	Symmetries Constrain Dynamics in a Family of Balanced Neural Networks. Journal of Mathematical Neuroscience, 2017, 7, 10.	2.4	3
12	Fokasâ€™s Unified Transform Method for linear systems. Quarterly of Applied Mathematics, 2017, 76, 463-488.	0.5	14
13	Neural Integration Underlying a Time-Compensated Sun Compass in the Migratory Monarch Butterfly. Cell Reports, 2016, 15, 683-691.	2.9	16
14	Closing the loop: optimal stimulation of C. elegans neuronal network via adaptive control to exhibit full body movements. BMC Neuroscience, 2015, 16, .	0.8	0
15	Symmetries constrain the transition to heterogeneous chaos in balanced networks. BMC Neuroscience, 2015, 16, .	0.8	1
16	Data-driven inference of network connectivity for modeling the dynamics of neural codes in the insect antennal lobe. Frontiers in Computational Neuroscience, 2014, 8, 70.	1.2	17
17	Low-dimensional functionality of complex network dynamics: Neurosensory integration in the $Caenorhabditis\ elegans$ connectome. Physical Review E, 2014, 89, 052805.	0.8	37
18	Flower discrimination by pollinators in a dynamic chemical environment. Science, 2014, 344, 1515-1518.	6.0	184

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19	Investigating dynamical properties of the Caenorhabditis elegans connectome through full-network simulations. BMC Neuroscience, 2013, 14, .	0.8	0
20	The Low Dimensionality of Time-Periodic Standing Waves in Water of Finite and Infinite Depth. SIAM Journal on Applied Dynamical Systems, 2012, 11, 1033-1061.	0.7	7
21	Neural Activity Measures and Their Dynamics. SIAM Journal on Applied Mathematics, 2012, 72, 1260-1291.	0.8	18
22	The Proper Orthogonal Decomposition for Dimensionality Reduction in Mode-Locked Lasers and Optical Systems. International Journal of Optics, 2012, 2012, 1-18.	0.6	33
23	High-Energy Passive Mode-Locking of Fiber Lasers. International Journal of Optics, 2012, 2012, 1-17.	0.6	38
24	Neural Dynamics, Bifurcations, and Firing Rates in a Quadratic Integrate-and-Fire Model with a Recovery Variable. I: Deterministic Behavior. Neural Computation, 2012, 24, 2078-2118.	1.3	16
25	Modeling the dynamics of neural codes in the olfaction of the Manduca-sexta moth. BMC Neuroscience, 2012, 13, .	0.8	0
26	Analysis of the Multi-Pulsing Instability in Mode-Locked Lasers Using Dynamical Dimension Reduction. , 2012, , .		1
27	Energy enhancement in mode-locked lasers using sinusoidal transmission functions for saturable absorption. , 2011, , .		0
28	Characterizing and suppressing multi-pulsing instabilities in mode-locked lasers. Proceedings of SPIE, 2011, , .	0.8	3
29	Continuation of periodic solutions in the waveguide array mode-locked laser. Physica D: Nonlinear Phenomena, 2011, 240, 1791-1804.	1.3	9
30	Generalized Master Equation for High-Energy Passive Mode-Locking: The Sinusoidal Ginzburg–Landau Equation. IEEE Journal of Quantum Electronics, 2011, 47, 705-714.	1.0	37
31	Energy Enhancement of Mode-Locked Fiber Lasers with Sinusoidal Transmission. , 2011, , .		0
32	A Reduced Dimensional Model for the Multi-Pulsing Transition in a Waveguide Array Mode-Locked Laser. , 2011, , .		0
33	Classification of solutions of the forced periodic nonlinear Schrödinger equation. Nonlinearity, 2010, 23, 2183-2218.	0.6	6
34	Modeling multipulsing transition in ring cavity lasers with proper orthogonal decomposition. Physical Review A, 2010, 82, .	1.0	15
35	The multi-pulsing transition in mode-locked lasers: a low-dimensional approach using waveguide arrays. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2471.	0.9	15
36	Parabolic Resonance: A Route to Hamiltonian Spatiotemporal Chaos. Physical Review Letters, 2009, 102, 033901.	2.9	9

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37	Three Types of Chaos in the Forced Nonlinear Schrödinger Equation. Physical Review Letters, 2006, 96, 024104.	2.9	30
38	Hierarchy of bifurcations in the truncated and forced nonlinear Schrödinger model. Chaos, 2005, 15, 013107.	1.0	17