

Aurel A Lazar

List of Publications by Citations

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73
papers

1,446
citations

20
h-index

36
g-index

92
ext. papers

1,806
ext. citations

3.7
avg, IF

4.93
L-index

#	Paper	IF	Citations
73	Practical protocols for certified electronic mail. <i>Journal of Network and Systems Management</i> , 1996 , 4, 279-297	2.1	104
72	Estimating receptive fields and spike-processing neural circuits in Drosophila. <i>BMC Neuroscience</i> , 2012 , 13,	3.2	78
71	Functional identification and evaluation of massively parallel neural circuits. <i>BMC Neuroscience</i> , 2013 , 14,	3.2	78
70	Functional identification of complex cells from spike times and the decoding of visual stimuli. <i>BMC Neuroscience</i> , 2015 , 16,	3.2	78
69	Identifying dendritic processing in a [Filter]-[Hodgkin Huxley] circuit. <i>BMC Neuroscience</i> , 2011 , 12,	3.2	78
68	Asymptotic results for multiplexing subexponential on-off processes. <i>Advances in Applied Probability</i> , 1999 , 31, 394-421	0.7	76
67	System identification of Drosophila olfactory sensory neurons. <i>Journal of Computational Neuroscience</i> , 2011 , 30, 143-61	1.4	62
66	Avoiding the Braess paradox in non-cooperative networks. <i>Journal of Applied Probability</i> , 1999 , 36, 211-228		60
65	Video time encoding machines. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 461-73		55
64	Markovian Petri Net protocols with product form solution. <i>Performance Evaluation</i> , 1991 , 12, 67-77	1.2	52
63	Optimal decentralized flow control of Markovian queueing networks with multiple controllers. <i>Performance Evaluation</i> , 1991 , 13, 181-204	1.2	51
62	An architecture for integrated networks that guarantees quality of service. <i>International Journal of Communication Systems</i> , 1990 , 3, 229-238		44
61	Faithful representation of stimuli with a population of integrate-and-fire neurons. <i>Neural Computation</i> , 2008 , 20, 2715-44	2.9	41
60	Time encoding with an integrate-and-fire neuron with a refractory period. <i>Neurocomputing</i> , 2004 , 58-60, 53-58	5.4	41
59	Subexponential asymptotics of a Markov-modulated random walk with queueing applications. <i>Journal of Applied Probability</i> , 1998 , 35, 325-347	0.8	41
58	Projection neurons in Drosophila antennal lobes signal the acceleration of odor concentrations. <i>ELife</i> , 2015 , 4,	8.9	32
57	Modeling video sources for real-time scheduling. <i>Multimedia Systems</i> , 1994 , 1, 253-266	2.2	31

56	Design of an Always-On Deep Neural Network-Based 1- μ s Voice Activity Detector Aided With a Customized Software Model for Analog Feature Extraction. <i>IEEE Journal of Solid-State Circuits</i> , 2019 , 54, 1764-1777	5.5	27
55	Population Encoding With Hodgkin-Huxley Neurons. <i>IEEE Transactions on Information Theory</i> , 2010 , 56,	2.8	25
54	Multichannel time encoding with integrate-and-fire neurons. <i>Neurocomputing</i> , 2005 , 65-66, 401-407	5.4	19
53	Spiking neural circuits with dendritic stimulus processors : encoding, decoding, and identification in reproducing kernel Hilbert spaces. <i>Journal of Computational Neuroscience</i> , 2015 , 38, 1-24	1.4	17
52	Encoding natural scenes with neural circuits with random thresholds. <i>Vision Research</i> , 2010 , 50, 2200-12	2.1	17
51	Neurokernel: An Open Source Platform for Emulating the Fruit Fly Brain. <i>PLoS ONE</i> , 2016 , 11, e0146581	3.7	16
50	Functional identification of spike-processing neural circuits. <i>Neural Computation</i> , 2014 , 26, 264-305	2.9	15
49	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 2619-2630	3.9	15
48	An extension to Norton's equivalent. <i>Queueing Systems</i> , 1989 , 5, 401-411	1.7	14
47	On the modeling and optimal flow control of the Jacksonian network. <i>Performance Evaluation</i> , 1985 , 5, 29-43	1.2	14
46	Reconstruction of Sensory Stimuli Encoded with Integrate-and-Fire Neurons with Random Thresholds. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009 , 2009, 682930	1.9	12
45	Rate conservation for stationary processes. <i>Journal of Applied Probability</i> , 1991 , 28, 146-158	0.8	11
44	Channel identification machines. <i>Computational Intelligence and Neuroscience</i> , 2012 , 2012, 209590	3	10
43	Information representation with an ensemble of Hodgkin-Huxley neurons. <i>Neurocomputing</i> , 2007 , 70, 1764-1771	5.4	10
42	A simple model of spike processing. <i>Neurocomputing</i> , 2006 , 69, 1081-1085	5.4	10
41	Monitoring the packet gap of real-time packet traffic. <i>Queueing Systems</i> , 1992 , 12, 231-242	1.7	10
40	Generating Executable Models of the Drosophila Central Complex. <i>Frontiers in Behavioral Neuroscience</i> , 2017 , 11, 102	3.5	9
39	A buffer-inventory-based dynamic scheduling algorithm for multimedia-on-demand servers. <i>Multimedia Systems</i> , 1998 , 6, 125-136	2.2	8

38	Taming Xunet III. <i>Computer Communication Review</i> , 1995 , 25, 44-65	1.4	8
37	. <i>Proceedings of the IEEE</i> , 2014 , 102, 1500-1519	14.3	7
36	Massively parallel neural circuits for stereoscopic color vision: encoding, decoding and identification. <i>Neural Networks</i> , 2015 , 63, 254-71	9.1	7
35	Flow control in integrated local area networks. <i>Performance Evaluation</i> , 1987 , 7, 43-57	1.2	7
34	Massively parallel neural encoding and decoding of visual stimuli. <i>Neural Networks</i> , 2012 , 32, 303-12	9.1	6
33	Volterra dendritic stimulus processors and biophysical spike generators with intrinsic noise sources. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 95	3.5	5
32	Recovery of Stimuli Encoded with a Hodgkin-Huxley Neuron Using Conditional PRCs 2012 , 257-277		5
31	A comparison of information based deflection strategies. <i>Computer Networks</i> , 1995 , 27, 1399-1407		5
30	Optimal Flow Control of an M/M/ m Queue. <i>Journal of the ACM</i> , 1984 , 31, 86-98	2	5
29	Identifying Dendritic Processing. <i>Advances in Neural Information Processing Systems</i> , 2010 , 23, 1261-1269	2.2	5
28	A molecular odorant transduction model and the complexity of spatio-temporal encoding in the Drosophila antenna. <i>PLoS Computational Biology</i> , 2020 , 16, e1007751	5	5
27	Channel identification machines for multidimensional receptive fields. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 117	3.5	4
26	A video Time Encoding Machine 2008 ,		4
25	Proactive cooperative scheduling and buffer management for multimedia networks. <i>Multimedia Systems</i> , 1993 , 1, 37-49	2.2	4
24	The Origin and Evolution of Open Programmable Networks and SDN. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 23, 1956-1971	37.1	4
23	The power of connectivity: identity preserving transformations on visual streams in the spike domain. <i>Neural Networks</i> , 2013 , 44, 22-35	9.1	3
22	Consistent recovery of sensory stimuli encoded with MIMO neural circuits. <i>Computational Intelligence and Neuroscience</i> , 2010 , 469658	3	3
21	Building open programmable multimedia networks. <i>Computer Communications</i> , 1998 , 21, 758-770	5.1	3

20	An architecture for managing virtual circuit and virtual path services in ATM networks. <i>Journal of Network and Systems Management</i> , 1996 , 4, 425-455	2.1	3
19	Optimal resource allocation for markovian queueing networks: the complete information case. <i>Stochastic Models</i> , 1991 , 7, 161-184		3
18	The Fruit Fly Brain Observatory: from structure to function		3
17	Accelerating with FlyBrainLab the discovery of the functional logic of the brain in the connectomic and synaptic era. <i>ELife</i> , 2021 , 10,	8.9	3
16	Sparse identification of contrast gain control in the fruit fly photoreceptor and amacrine cell layer. <i>Journal of Mathematical Neuroscience</i> , 2020 , 10, 3	2.4	2
15	Sparse Functional Identification of Complex Cells from Spike Times and the Decoding of Visual Stimuli. <i>Journal of Mathematical Neuroscience</i> , 2018 , 8, 2	2.4	2
14	The geometry of lattices for Markovian queueing networks. <i>Performance Evaluation</i> , 1986 , 6, 85-86	1.2	2
13	The Fruit Fly Brain Observatory: From Structure to Function		2
12	A Motion Detection Algorithm Using Local Phase Information. <i>Computational Intelligence and Neuroscience</i> , 2016 , 2016, 7915245	3	2
11	An Odorant Encoding Machine for Sampling, Reconstruction and Robust Representation of Odorant Identity 2020 ,		1
10	Functional identification of an antennal lobe DM4 projection neuron of the fruit fly. <i>BMC Neuroscience</i> , 2014 , 15,	3.2	1
9	Identification of nonlinear-nonlinear neuron models and stimulus decoding. <i>BMC Neuroscience</i> , 2013 , 14,	3.2	1
8	Retina of the fruit fly eyes: a detailed simulation model. <i>BMC Neuroscience</i> , 2015 , 16,	3.2	1
7	Integrating security in the CORBA architecture. <i>Theory and Practice of Object Systems</i> , 1997 , 3, 3-13		1
6	Optimal control of a M/M/m queue. <i>Performance Evaluation Review</i> , 1982 , 11, 14-20	0.4	1
5	NeuroGFX: a graphical functional explorer for fruit fly brain circuits		1
4	Identifying Multisensory Dendritic Stimulus Processors. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2016 , 2, 183-198	2.3	1
3	. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2016 , 2, 1-4	2.3	

- 2 The effect of delayed feedback information on network performance. *Annals of Operations Research*, **1992**, 36, 101-124 3.2
- 1 . *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications*, **2016**, 2, 117-119 2.3