Aurel A Lazar

List of Publications by Year in Descending Order

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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	The Origin and Evolution of Open Programmable Networks and SDN. *IEEE Communications Surveys and Tutorials*, **2021**, 23, 1956-1971	37.1	4
72	Accelerating with FlyBrainLab the discovery of the functional logic of the brain in the connectomic and synaptomic era. *ELife*, **2021**, 10,	8.9	3
71	An Odorant Encoding Machine for Sampling, Reconstruction and Robust Representation of Odorant Identity **2020**,		1
70	Sparse identification of contrast gain control in the fruit fly photoreceptor and amacrine cell layer. *Journal of Mathematical Neuroscience*, **2020**, 10, 3	2.4	2
69	A molecular odorant transduction model and the complexity of spatio-temporal encoding in the Drosophila antenna. *PLoS Computational Biology*, **2020**, 16, e1007751	5	5
68	Design of an Always-On Deep Neural Network-Based 1- mu W Voice Activity Detector Aided With a Customized Software Model for Analog Feature Extraction. *IEEE Journal of Solid-State Circuits*, **2019**, 54, 1764-1777	5.5	27
67	Sparse Functional Identification of Complex Cells from Spike Times and the Decoding of Visual Stimuli. *Journal of Mathematical Neuroscience*, **2018**, 8, 2	2.4	2
66	Generating Executable Models of the Drosophila Central Complex. *Frontiers in Behavioral Neuroscience*, **2017**, 11, 102	3.5	9
65	. *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications*, **2016**, 2, 1-4	2.3	
64	Neurokernel: An Open Source Platform for Emulating the Fruit Fly Brain. *PLoS ONE*, **2016**, 11, e0146581	3.7	16
63	A Motion Detection Algorithm Using Local Phase Information. *Computational Intelligence and Neuroscience*, **2016**, 2016, 7915245	3	2
62	. *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications*, **2016**, 2, 117-119	2.3	
61	Identifying Multisensory Dendritic Stimulus Processors. *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications*, **2016**, 2, 183-198	2.3	1
60	Spiking neural circuits with dendritic stimulus processors : encoding, decoding, and identification in reproducing kernel Hilbert spaces. *Journal of Computational Neuroscience*, **2015**, 38, 1-24	1.4	17
59	Functional identification of complex cells from spike times and the decoding of visual stimuli. *BMC Neuroscience*, **2015**, 16,	3.2	78
58	Retina of the fruit fly eyes: a detailed simulation model. *BMC Neuroscience*, **2015**, 16,	3.2	1
57	Massively parallel neural circuits for stereoscopic color vision: encoding, decoding and identification. *Neural Networks*, **2015**, 63, 254-71	9.1	7

56	Projection neurons in Drosophila antennal lobes signal the acceleration of odor concentrations. *ELife*, **2015**, 4,	8.9	32
55	Functional identification of spike-processing neural circuits. *Neural Computation*, **2014**, 26, 264-305	2.9	15
54	. *Proceedings of the IEEE*, **2014**, 102, 1500-1519	14.3	7
53	Functional identification of an antennal lobe DM4 projection neuron of the fruit fly. *BMC Neuroscience*, **2014**, 15,	3.2	1
52	Volterra dendritic stimulus processors and biophysical spike generators with intrinsic noise sources. *Frontiers in Computational Neuroscience*, **2014**, 8, 95	3.5	5
51	Channel identification machines for multidimensional receptive fields. *Frontiers in Computational Neuroscience*, **2014**, 8, 117	3.5	4
50	Identification of nonlinear-nonlinear neuron models and stimulus decoding. *BMC Neuroscience*, **2013**, 14,	3.2	1
49	Functional identification and evaluation of massively parallel neural circuits. *BMC Neuroscience*, **2013**, 14,	3.2	78
48	The power of connectivity: identity preserving transformations on visual streams in the spike domain. *Neural Networks*, **2013**, 44, 22-35	9.1	3
47	Estimating receptive fields and spike-processing neural circuits in Drosophila. *BMC Neuroscience*, **2012**, 13,	3.2	78
46	Channel identification machines. *Computational Intelligence and Neuroscience*, **2012**, 2012, 209590	3	10
45	Massively parallel neural encoding and decoding of visual stimuli. *Neural Networks*, **2012**, 32, 303-12	9.1	6
44	Recovery of Stimuli Encoded with a HodgkinHuxley Neuron Using Conditional PRCs **2012**, 257-277		5
43	System identification of Drosophila olfactory sensory neurons. *Journal of Computational Neuroscience*, **2011**, 30, 143-61	1.4	62
42	Identifying dendritic processing in a [Filter]-[Hodgkin Huxley] circuit. *BMC Neuroscience*, **2011**, 12,	3.2	78
41	Video time encoding machines. *IEEE Transactions on Neural Networks*, **2011**, 22, 461-73		55
40	Consistent recovery of sensory stimuli encoded with MIMO neural circuits. *Computational Intelligence and Neuroscience*, **2010**, 469658	3	3
39	Population Encoding With Hodgkin-Huxley Neurons. *IEEE Transactions on Information Theory*, **2010**, 56,	2.8	25

38	Encoding natural scenes with neural circuits with random thresholds. *Vision Research*, **2010**, 50, 2200-12	2.1	17
37	Identifying Dendritic Processing. *Advances in Neural Information Processing Systems*, **2010**, 23, 1261-1269	2.2	5
36	Reconstruction of Sensory Stimuli Encoded with Integrate-and-Fire Neurons with Random Thresholds. *Eurasip Journal on Advances in Signal Processing*, **2009**, 2009, 682930	1.9	12
35	A video Time Encoding Machine **2008**,		4
34	. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2008**, 55, 2619-2630	3.9	15
33	Faithful representation of stimuli with a population of integrate-and-fire neurons. *Neural Computation*, **2008**, 20, 2715-44	2.9	41
32	Information representation with an ensemble of Hodgkin–Huxley neurons. *Neurocomputing*, **2007**, 70, 1764-1771	5.4	10
31	A simple model of spike processing. *Neurocomputing*, **2006**, 69, 1081-1085	5.4	10
30	Multichannel time encoding with integrate-and-fire neurons. *Neurocomputing*, **2005**, 65-66, 401-407	5.4	19
29	Time encoding with an integrate-and-fire neuron with a refractory period. *Neurocomputing*, **2004**, 58-60, 53-58	5.4	41
28	Avoiding the Braess paradox in non-cooperative networks. *Journal of Applied Probability*, **1999**, 36, 211-228	0.8	60
27	Asymptotic results for multiplexing subexponential on-off processes. *Advances in Applied Probability*, **1999**, 31, 394-421	0.7	76
26	A buffer-inventory-based dynamic scheduling algorithm for multimedia-on-demand servers. *Multimedia Systems*, **1998**, 6, 125-136	2.2	8
25	Building open programmable multimedia networks. *Computer Communications*, **1998**, 21, 758-770	5.1	3
24	Subexponential asymptotics of a Markov-modulated random walk with queueing applications. *Journal of Applied Probability*, **1998**, 35, 325-347	0.8	41
23	Integrating security in the CORBA architecture. *Theory and Practice of Object Systems*, **1997**, 3, 3-13		1
22	Practical protocols for certified electronic mail. *Journal of Network and Systems Management*, **1996**, 4, 279-297	2.1	104
21	An architecture for managing virtual circuit and virtual path services in ATM networks. *Journal of Network and Systems Management*, **1996**, 4, 425-455	2.1	3

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20	A comparison of information based deflection strategies. *Computer Networks*, **1995**, 27, 1399-1407		5
19	Taming Xunet III. *Computer Communication Review*, **1995**, 25, 44-65	1.4	8
18	Modeling video sources for real-time scheduling. *Multimedia Systems*, **1994**, 1, 253-266	2.2	31
17	Proactive cooperative scheduling and buffer management for multimedia networks. *Multimedia Systems*, **1993**, 1, 37-49	2.2	4
16	Monitoring the packet gap of real-time packet traffic. *Queueing Systems*, **1992**, 12, 231-242	1.7	10
15	The effect of delayed feedback information on network performance. *Annals of Operations Research*, **1992**, 36, 101-124	3.2	
14	Markovian Petri Net protocols with product form solution. *Performance Evaluation*, **1991**, 12, 67-77	1.2	52
13	Optimal decentralized flow control of Markovian queueing networks with multiple controllers. *Performance Evaluation*, **1991**, 13, 181-204	1.2	51
12	Optimal resource allocation for markovian queueing networks: the complete information case. *Stochastic Models*, **1991**, 7, 161-184		3
11	Rate conservation for stationary processes. *Journal of Applied Probability*, **1991**, 28, 146-158	0.8	11
10	An architecture for integrated networks that guarantees quality of service. *International Journal of Communication Systems*, **1990**, 3, 229-238		44
9	An extension to Norton\'s equivalent. *Queueing Systems*, **1989**, 5, 401-411	1.7	14
8	Flow control in integrated local area networks. *Performance Evaluation*, **1987**, 7, 43-57	1.2	7
7	The geometry of lattices for Markovian queueing networks. *Performance Evaluation*, **1986**, 6, 85-86	1.2	2
6	On the modeling and optimal flow control of the Jacksonian network. *Performance Evaluation*, **1985**, 5, 29-43	1.2	14
5	Optimal Flow Control of an M/M/ m Queue. *Journal of the ACM*, **1984**, 31, 86-98	2	5
4	Optimal control of a M/M/m queue. *Performance Evaluation Review*, **1982**, 11, 14-20	0.4	1
3	The Fruit Fly Brain Observatory: from structure to function		3