Yakov B Kazanovich

List of Publications by Year
in descending order

28 papers	544 citations	687363 13 h-index	642732 23 g-index
28 all docs	28 docs citations	28 times ranked	342 citing authors

#	Article	IF	Citations
1	A computational model of familiarity detection for natural pictures, abstract images, and random patterns: Combination of deep learning and anti-Hebbian training. Neural Networks, 2021, 143, 628-637.	5.9	6
2	Modeling Brain Cognitive Functions by Oscillatory Neural Networks. Optical Memory and Neural Networks (Information Optics), 2019, 28, 175-184.	1.0	1
3	Phase relations of theta oscillations in a computer model of the hippocampal CA1 field: Key role of Schaffer collaterals. Neural Networks, 2019, 116, 119-138.	5.9	14
4	Winner-take-all in a phase oscillator system with adaptation. Scientific Reports, 2018, 8, 416.	3.3	10
5	Reaction times in visual search can be explained by a simple model of neural synchronization. Neural Networks, 2017, 87, 1-7.	5.9	12
6	Bifurcation study of phase oscillator systems with attractive and repulsive interaction. Physical Review E, 2014, 90, 022911.	2.1	16
7	Competition for synchronization in a phase oscillator system. Physica D: Nonlinear Phenomena, 2013, 261, 114-124.	2.8	12
8	Spiking neural network model for memorizing sequences with forward and backward recall. BioSystems, 2013, 112, 214-223.	2.0	13
9	Bifurcations in phase oscillator networks with a central element. Physica D: Nonlinear Phenomena, 2012, 241, 1072-1089.	2.8	14
10	Partial synchronization of neural activity and information processing. , 2009, , .		2
11	Visual perception of ambiguous figures: synchronization based neural models. Biological Cybernetics, 2009, 100, 491-504.	1.3	24
12	Selective attention model with spiking elements. Neural Networks, 2009, 22, 890-900.	5.9	17
13	A neural model of selective attention and object segmentation in the visual scene: An approach based on partial synchronization and star-like architecture of connections. Neural Networks, 2009, 22, 707-719.	5.9	22
14	Selective Attention Model of Moving Objects. Lecture Notes in Computer Science, 2008, , 358-367.	1.3	2
15	An Oscillatory Neural Model of Multiple Object Tracking. Neural Computation, 2006, 18, 1413-1440.	2.2	46
16	Oscillations and waves in the models of interactive neural populations. BioSystems, 2006, 86, 53-62.	2.0	7
17	Oscillatory model of attention-guided object selection and novelty detection. Neural Networks, 2004, 17, 899-915.	5.9	51
18	Oscillatory neural network model of attention focus formation and control. BioSystems, 2003, 71, 29-38.	2.0	17

#	Article	IF	Citations
19	Models of neural dynamics in brain information processing â€" the developments of 'the decade'. Physics-Uspekhi, 2002, 45, 1073-1095.	2.2	61
20	Object selection by an oscillatory neural network. BioSystems, 2002, 67, 103-111.	2.0	33
21	Temporal Structure of Neural Activity and Modelling of Information Processing in the Brain. Lecture Notes in Computer Science, 2001, , 237-254.	1.3	2
22	Oscillatory model of novelty detection. Network: Computation in Neural Systems, 2001, 12, 1-20.	3.6	3
23	An oscillatory neural network model of sparse distributed memory and novelty detection. BioSystems, 2000, 58, 265-272.	2.0	20
24	Dynamics of neural networks with a central element. Neural Networks, 1999, 12, 441-454.	5.9	47
25	Synchronization of neural activity and information processing. Behavioral and Brain Sciences, 1998, 21, 833-833.	0.7	12
26	A combinatorial approach to the problem of self-assembly. Discrete Applied Mathematics, 1995, 57, 45-65.	0.9	5
27	Synchronization in a neural network of phase oscillators with the central element. Biological Cybernetics, 1994, 71, 177-185.	1.3	74
28	Modeling ?preattention? and ?attention? information processing by synchronization of neural activity. Radiophysics and Quantum Electronics, 1994, 37, 607-614.	0.5	1