Fail M Gafarov

List of Publications by Year
in descending order

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24 papers	310 citations	840119 11 h-index	839053 18 g-index
24 all docs	24 docs citations	24 times ranked	175 citing authors

#	Article	IF	Citations
1	Stochastic dynamics of time correlation in complex systems with discrete time. Physical Review E, 2000, 62, 6178-6194.	0.8	55
2	Quantification of heart rate variability by discrete nonstationary non-Markov stochastic processes. Physical Review E, 2002, 65, 046107.	0.8	48
3	Possibility between earthquake and explosion seismogram differentiation by discrete stochastic non-Markov processes and local Hurst exponent analysis. Physical Review E, 2001, 64, 066132.	0.8	36
4	Dynamical Shannon entropy and information Tsallis entropy in complex systems. Physica A: Statistical Mechanics and Its Applications, 2004, 341, 649-676.	1.2	20
5	Non-Markov stochastic dynamics of real epidemic process of respiratory infections. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 300-318.	1.2	19
6	Stratification of the phase clouds and statistical effects of the non-Markovity in chaotic time series of human gait for healthy people and Parkinson patients. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 432-446.	1.2	18
7	Neural electrical activity and neural network growth. Neural Networks, 2018, 101, 15-24.	3.3	16
8	Dynamics of the information entropy in random processes. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 416-438.	1.2	15
9	How chaosity and randomness control human health. Physica A: Statistical Mechanics and Its Applications, 2005, 354, 404-414.	1.2	15
10	Intensity approximation of random fluctuation in complex systems. Physica A: Statistical Mechanics and Its Applications, 2002, 303, 427-438.	1.2	14
11	Long-range memory and non-Markov statistical effects in human sensorimotor coordination. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 671-687.	1.2	12
12	Emergence of the small-world architecture in neural networks by activity dependent growth. Physica A: Statistical Mechanics and Its Applications, 2016, 461, 409-418.	1.2	8
13	Modeling of interstitial branching of axonal networks. Journal of Integrative Neuroscience, 2013, 12, 103-116.	0.8	7
14	Markov and non-Markov processes in complex systems by the dynamical information entropy. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 381-384.	1.2	5
15	SELF-WIRING IN NEURAL NETS OF POINT-LIKE CORTICAL NEURONS FAILS TO REPRODUCE CYTOARCHITECTURAL DIFFERENCES. Journal of Integrative Neuroscience, 2006, 05, 159-169.	0.8	5
16	Simulation of serotonin mechanisms in NEUCOGAR cognitive architecture. Procedia Computer Science, 2018, 123, 473-478.	1.2	5
17	MORPHOLESS NEURONS COMPROMISE THE DEVELOPMENT OF CORTICAL CONNECTIVITY. Journal of Integrative Neuroscience, 2009, 08, 35-48.	0.8	4
18	Stochastic processes of demarkovization and markovization in chaotic signals of human brain electric activity from EEGs during epilepsys. Journal of Experimental and Theoretical Physics, 2003, 96, 572-580.	0.2	2

#	Article	IF	Citations
19	Fluctuations and Noise in Stochastic Spread of Respiratory Infection Epidemics in Social Networks. AIP Conference Proceedings, 2003, , .	0.3	2
20	Bio-plausible simulation of three monoamine systems to replicate emotional phenomena in a machine. Biologically Inspired Cognitive Architectures, 2018, 26, 166-173.	0.9	2
21	Modeling Psycho-Emotional States via Neurosimulation of Monoamine Neurotransmitters. Springer Series in Cognitive and Neural Systems, 2019, , 127-156.	0.1	2
22	Bio-plausible simulation of three monoamine systems to replicate emotional phenomena in a machine. Procedia Computer Science, 2018, 145, 300-305.	1.2	0
23	The Implementation of Growth Guidance Factor Diffusion via Octree Spatial Structures for Neuronal Systems Simulation. Lecture Notes in Computer Science, 2018, , 158-163.	1.0	0
24	To the issue of Analytics in education. , 2020, , .		0