Yukio-Pegio Gunji

List of Publications by Year
in descending order

46	938	471509 17	454955 30
papers	citations	h-index	g-index

46	46	46	395
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robust and emergent Physarum logical-computing. BioSystems, 2004, 73, 45-55.	2.0	180
2	Slime mould: The fundamental mechanisms of biological cognition. BioSystems, 2018, 165, 57-70.	2.0	67
3	Minimal model of a cell connecting amoebic motion and adaptive transport networks. Journal of Theoretical Biology, 2008, 253, 659-667.	1.7	65
4	Observational heterarchy enhancing active coupling. Physica D: Nonlinear Phenomena, 2004, 198, 74-105.	2.8	49
5	An adaptive and robust biological network based on the vacant-particle transportation model. Journal of Theoretical Biology, 2011, 272, 187-200.	1.7	49
6	Global logic resulting from disequilibration process. BioSystems, 1995, 35, 33-62.	2.0	47
7	Formal model of internal measurement: Alternate changing between recursive definition and domain equation. Physica D: Nonlinear Phenomena, 1997, 110, 289-312.	2.8	40
8	Autonomic life as the proof of incompleteness and Lawvere's theorem of fixed point. Applied Mathematics and Computation, 1994, 61, 231-267.	2.2	38
9	Inverse Bayesian inference as a key of consciousness featuring a macroscopic quantum logical structure. BioSystems, 2017, 152, 44-65.	2.0	38
10	Quantum cognition based on an ambiguous representation derived from a rough set approximation. BioSystems, 2016, 141, 55-66.	2.0	37
11	Inherent noise appears as a LÃ©vy walk in fish schools. Scientific Reports, 2015, 5, 10605.	3.3	35
12	Emergent Runaway into an Avoidance Area in a Swarm of Soldier Crabs. PLoS ONE, 2014, 9, e97870.	2.5	30
13	Emergence of a coherent and cohesive swarm based on mutual anticipation. Scientific Reports, 2017, 7, 46447.	3.3	24
14	Dynamically changing interface as a model of measurement in complex systems. Physica D: Nonlinear Phenomena, 1997, 101, 27-54.	2.8	22
15	Inverse Bayesian inference in swarming behaviour of soldier crabs. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170370.	3.4	21
16	Pigment color patterns of molluscs as an autonomous process generated by asynchronous automata. BioSystems, 1990, 23, 317-334.	2.0	20
17	Free will in Bayesian and inverse Bayesian inference-driven endo-consciousness. Progress in Biophysics and Molecular Biology, 2017, 131, 312-324.	2.9	18
18	The MÃ¼ller-Lyer Illusion in Ant Foraging. PLoS ONE, 2013, 8, e81714.	2.5	18

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19	A Non-boolean Lattice Derived by Double Indiscernibility. Lecture Notes in Computer Science, 2010, , 211-225.	1.3	17
20	Abstract heterarchy: Time/state-scale re-entrant form. BioSystems, 2008, 91, 13-33.	2.0	15
21	Kanizsa illusory contours appearing in the plasmodium pattern of Physarum polycephalum. Frontiers in Cellular and Infection Microbiology, 2014, 4, 10.	3.9	14
22	Dynamical infomorphism: form of endo-perspective. Chaos, Solitons and Fractals, 2004, 22, 1077-1101.	5.1	11
23	LÃ©vy Walk in Swarm Models Based on Bayesian and Inverse Bayesian Inference. Computational and Structural Biotechnology Journal, 2021, 19, 247-260.	4.1	11
24	Robust Swarm Model Based on Mutual Anticipation. International Journal of Artificial Life Research, 2012, 3, 45-58.	0.1	8
25	Self-Organized Criticality in Asynchronously Tuned Elementary Cellular Automata. Complex Systems, 2014, 23, 55-70.	0.3	8
26	Modeling of decision-making process for moving straight using inverse Bayesian inference. BioSystems, 2018, 163, 70-81.	2.0	7
27	Three types of logical structure resulting from the trilemma of free will, determinism and locality. BioSystems, 2020, 195, 104151.	2.0	7
28	A Model of Scale-Free Proportion Based on Mutual Anticipation. International Journal of Artificial Life Research, 2012, 3, 34-44.	0.1	6
29	Punctuated equilibrium based on a locally ambiguous niche. BioSystems, 2014, 123, 99-105.	2.0	6
30	Dancing Chief in the Brain or Consciousness as an Entanglement. Foundations of Science, 2020, 25, 151-184.	0.7	5
31	Breaking of the Trade-Off Principle between Computational Universality and Efficiency by Asynchronous Updating. Entropy, 2020, 22, 1049.	2.2	5
32	Return map structure and entrainment in a time-state-scale re-entrant system. Physica D: Nonlinear Phenomena, 2007, 234, 124-130.	2.8	4
33	My hand is not my own! Experimental elicitation of body disownership.. Psychology and Neuroscience, 2015, 8, 425-434.	0.8	4
34	Computational Power of Asynchronously Tuned Automata Enhancing the Unfolded Edge of Chaos. Entropy, 2021, 23, 1376.	2.2	3
35	Concept Formation and Quantum-like Probability from Nonlocality in Cognition. Cognitive Computation, 0, , 1.	5.2	3
36	Ordinal Preferential Attachment: A Self-Organizing Principle Generating Dense Scale-Free Networks. Scientific Reports, 2019, 9, 4130.	3.3	2

#	Article	IF	Citations
37	Amoebic Foraging Model of Metastatic Cancer Cells. Symmetry, 2021, 13, 1140.	2.2	1
38	Uncertain Density Balance Triggers Scale-Free Evolution in Game of Life. Complex Systems, 2017, 26, 31-38.	0.3	1
39	Evolving Lattices for Analyzing Behavioral Dynamics of Characters in Literary Text. TripleC, 2011, 9, 502-509.	0.9	1
40	Analyzing Double Image Illusion through Double Indiscernibility and Lattice Theory. TripleC, 2011, 9, 510-519.	0.9	1
41	3P314 Pressure-based cell motility of Physarum plasmodium(Mathematical biology,The 48th Annual) Tj ETQq1 1 0.784314 rgBT /Ove	0.1	0
42	2E1500 Diminish the field size-dependence with toplogical flocking model on document clestering(Nonequilibrium state & Biological rhythum,The 48th Annual Meeting of the Biophysical) Tj ETQq0 0 0 rgBT /Overlock 10	0.1	0
43	Embryogenic remodeling of global chromatin and its role on structure of corresponding lattice representation. BioSystems, 2018, 173, 273-280.	2.0	0
44	Experimental Disproof of a Manga Character Construction Model. Symmetry, 2021, 13, 838.	2.2	0
45	Logic Gates Formed by Perturbations in an Asynchronous Game of Life. Symmetry, 2021, 13, 907.	2.2	0
46	Modeling of Decision Process Featuring Inverse Bayesian Inference. Transactions of the Society of Instrument and Control Engineers, 2018, 54, 31-38.	0.2	0