

Yukio-Pegio Gunji

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

938
citations

471477

17
h-index

454934

30
g-index

46
all docs

46
docs citations

46
times ranked

395
citing authors

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

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