

Yukio

List of Publications by Year in descending order

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53
papers

619
citations

567144

15
h-index

642610

23
g-index

53
all docs

53
docs citations

53
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	Observational heterarchy enhancing active coupling. <i>Physica D: Nonlinear Phenomena</i> , 2004, 198, 74-105.	1.3	49
2	An adaptive and robust biological network based on the vacant-particle transportation model. <i>Journal of Theoretical Biology</i> , 2011, 272, 187-200.	0.8	49
3	Global logic resulting from disequibration process. <i>BioSystems</i> , 1995, 35, 33-62.	0.9	47
4	Formal model of internal measurement: Alternate changing between recursive definition and domain equation. <i>Physica D: Nonlinear Phenomena</i> , 1997, 110, 289-312.	1.3	40
5	Inverse Bayesian inference as a key of consciousness featuring a macroscopic quantum logical structure. <i>BioSystems</i> , 2017, 152, 44-65.	0.9	38
6	Quantum cognition based on an ambiguous representation derived from a rough set approximation. <i>BioSystems</i> , 2016, 141, 55-66.	0.9	37
7	Inherent noise appears as a Lévy walk in fish schools. <i>Scientific Reports</i> , 2015, 5, 10605.	1.6	35
8	Emergent Runaway into an Avoidance Area in a Swarm of Soldier Crabs. <i>PLoS ONE</i> , 2014, 9, e97870.	1.1	30
9	Emergence of a coherent and cohesive swarm based on mutual anticipation. <i>Scientific Reports</i> , 2017, 7, 46447.	1.6	24
10	The form of life. I. It is possible but not necessary. <i>Applied Mathematics and Computation</i> , 1992, 47, 267-288.	1.4	23
11	Dynamically changing interface as a model of measurement in complex systems. <i>Physica D: Nonlinear Phenomena</i> , 1997, 101, 27-54.	1.3	22
12	Inverse Bayesian inference in swarming behaviour of soldier crabs. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170370.	1.6	21
13	Free will in Bayesian and inverse Bayesian inference-driven endo-consciousness. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 131, 312-324.	1.4	18
14	The Müller-Lyer Illusion in Ant Foraging. <i>PLoS ONE</i> , 2013, 8, e81714.	1.1	18
15	A Non-boolean Lattice Derived by Double Indiscernibility. <i>Lecture Notes in Computer Science</i> , 2010, , 211-225.	1.0	17
16	Principles of biological organization: Local-global negotiation based on "material cause". <i>Physica D: Nonlinear Phenomena</i> , 2006, 219, 152-167.	1.3	16
17	Abstract heterarchy: Time/state-scale re-entrant form. <i>BioSystems</i> , 2008, 91, 13-33.	0.9	15
18	Interaction between path integration and visual orientation during the homing run of fiddler crabs. <i>Royal Society Open Science</i> , 2017, 4, 170954.	1.1	13

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19	Sociality of an agent during morphogenetic canalization: Asynchronous updating with potential resonance. <i>BioSystems</i> , 2012, 109, 420-429.	0.9	11
20	Zipf's law in phonograms and Weibull distribution in ideograms: comparison of English with Japanese. <i>BioSystems</i> , 2004, 73, 131-139.	0.9	10
21	Emergent weak home-range behaviour without spatial memory. <i>Royal Society Open Science</i> , 2016, 3, 160214.	1.1	9
22	Optimal random search using limited spatial memory. <i>Royal Society Open Science</i> , 2018, 5, 171057.	1.1	9
23	The Kanizsa triangle illusion in foraging ants. <i>BioSystems</i> , 2016, 142-143, 9-14.	0.9	7
24	Rotating panoramic view: interaction between visual and olfactory cues in ants. <i>Royal Society Open Science</i> , 2016, 3, 150426.	1.1	7
25	Modeling of decision-making process for moving straight using inverse Bayesian inference. <i>BioSystems</i> , 2018, 163, 70-81.	0.9	7
26	Three types of logical structure resulting from the trilemma of free will, determinism and locality. <i>BioSystems</i> , 2020, 195, 104151.	0.9	7
27	Typ-Ken (an Amalgam of Type and Token) Drives Infosphere. <i>Knowledge, Technology and Policy: the International Journal of Knowledge Transfer and Utilization</i> , 2010, 23, 227-251.	0.5	6
28	Punctuated equilibrium based on a locally ambiguous niche. <i>BioSystems</i> , 2014, 123, 99-105.	0.9	6
29	Dynamical duality of type- and token-computation as an abstract brain. <i>Chaos, Solitons and Fractals</i> , 2006, 27, 1187-1204.	2.5	5
30	Propagating wave based on transition of interaction within animal group. <i>BioSystems</i> , 2019, 185, 104019.	0.9	5
31	Collective behavior of soldier crab swarm in both ring- and round-shaped arenas. <i>Artificial Life and Robotics</i> , 2015, 20, 315-319.	0.7	4
32	Subjective spacetime derived from a causal histories approach. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 2016-2023.	1.3	3
33	Local perspectives of <i>Plecoglossusaltivelis</i> determine searching strategy. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	3
34	Concept Formation and Quantum-like Probability from Nonlocality in Cognition. <i>Cognitive Computation</i> , 0, , 1.	3.6	3
35	<i>Physarum plasmodium</i> perceives ambiguous stimulus as either attractant or repellent. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
36	Extremely localized interaction in a market model. <i>Artificial Life and Robotics</i> , 2017, 22, 125-129.	0.7	1

#	ARTICLE	IF	CITATIONS
37	Autonomous change of behavior for environmental context: An intermittent search model with misunderstanding search pattern. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 7013-7021.	1.2	1
38	Different Collective Behaviors in Different Small Schools of <i>Plecoglossus altivelis</i> . <i>Transactions of the Society of Instrument and Control Engineers</i> , 2016, 52, 257-263.	0.1	1
39	Ongoing Processes in a Fitness Network Model under Restricted Resources. <i>PLoS ONE</i> , 2015, 10, e0127284.	1.1	1
40	Synchronization in asynchronous cellular automata evaluated by local active information storage. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
41	Modulation effect with global ambiguity in 2-dimensional random walk. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
42	Moderated pattern formations on trail-laying foraging. <i>Artificial Life and Robotics</i> , 2016, 21, 253-257.	0.7	0
43	Modulation effect with global ambiguity in 2-dimensional random walk. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2017, 32, 159-165.	0.7	0
44	Multi-hierarchical movements in self-avoiding walks. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
45	Bifurcation in the chemotactic behavior of <i>Physarum plasmodium</i> . <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
46	Heterarchical market: Dynamical interplay between time and space in the continuous interaction in a market model. , 2017, , .		0
47	Autonomous change of behavior for environmental context: An intermittent search model with misunderstanding search pattern. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
48	Embryogenic remodeling of global chromatin and its role on structure of corresponding lattice representation. <i>BioSystems</i> , 2018, 173, 273-280.	0.9	0
49	Experimental Disproof of a Manga Character Construction Model. <i>Symmetry</i> , 2021, 13, 838.	1.1	0
50	Logic Gates Formed by Perturbations in an Asynchronous Game of Life. <i>Symmetry</i> , 2021, 13, 907.	1.1	0
51	Effect of Hidden Vector on the Speech of PRVA. <i>Frontiers in Psychology</i> , 2021, 12, 627148.	1.1	0
52	Modeling of Decision Process Featuring Inverse Bayesian Inference. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2018, 54, 31-38.	0.1	0
53	Reservoir Computing Using Asynchronous Cellular Automata. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2020, 56, 8-15.	0.1	0