

Arend Hintze

List of Publications by Year in descending order

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53
papers

1,588
citations

471509

17
h-index

315739

38
g-index

56
all docs

56
docs citations

56
times ranked

1975
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying patient-specific behaviors to understand illness trajectories and predict relapses in bipolar disorder using passive sensing and deep anomaly detection: protocol for a contactless cohort study. BMC Psychiatry, 2022, 22, 288.	2.6	4
2	Using MAP-Elites to direct the evolution of desired neural characteristics. , 2021, , .		0
3	Comparative Transcriptomics Reveals Distinct Patterns of Gene Expression Conservation through Vertebrate Embryogenesis. Genome Biology and Evolution, 2021, 13, .	2.5	2
4	The Role Weights Play in Catastrophic Forgetting. , 2021, , .		1
5	Inclusive groups can avoid the tragedy of the commons. Scientific Reports, 2020, 10, 22392.	3.3	5
6	Evolutionary Dynamics Effects Account for the Improvement Caused by R-Augmentation. , 2020, , .		0
7	Cryptic Information Transfer in Differently-Trained Recurrent Neural Networks. , 2020, , .		5
8	Open-Endedness for the Sake of Open-Endedness. Artificial Life, 2019, 25, 198-206.	1.3	4
9	Augmenting neuro-evolutionary adaptation with representations does not incur a speed accuracy trade-off. , 2019, , .		1
10	The Evolutionary Buffet Method. Genetic and Evolutionary Computation, 2019, , 17-36.	1.0	7
11	The Evolution of Neuroplasticity and the Effect on Integrated Information. Entropy, 2019, 21, 524.	2.2	3
12	Episode forecasting in bipolar disorder: Is energy better than mood?. Bipolar Disorders, 2018, 20, 470-476.	1.9	10
13	The structure of evolved representations across different substrates for artificial intelligence. , 2018, , .		8
14	The effect of periodic changes in the fitness landscape on brain structure and function. , 2018, , .		1
15	Serendipitous scaffolding to improve a genetic algorithm's speed and quality. , 2018, , .		1
16	Thermodynamics of evolutionary games. Physical Review E, 2018, 97, 062136.	2.1	16
17	Rewards, risks, and reaching the right strategy: Evolutionary paths from heuristics to optimal decisions.. Evolutionary Behavioral Sciences, 2018, 12, 177-190.	0.8	4
18	How the integration of group and individual level selection affects the evolution of cooperation. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Third-party mutualists have contrasting effects on host invasion under the enemy-release and biotic-resistance hypotheses. <i>Evolutionary Ecology</i> , 2017, 31, 829-845.	1.2	5
20	Evolving autonomous learning in cognitive networks. <i>Scientific Reports</i> , 2017, 7, 16712.	3.3	12
21	Origin of life in a digital microcosm. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160350.	3.4	3
22	A genome wide dosage suppressor network reveals genomic robustness. <i>Nucleic Acids Research</i> , 2017, 45, 255-270.	14.5	13
23	Increasing the complexity of solutions produced by an evolutionary developmental system. , 2017, , .		2
24	MABE (Modular Agent Based Evolver): A framework for digital evolution research. , 2017, , .		14
25	Information-Theoretic Neuro-Correlates Boost Evolution of Cognitive Systems. <i>Entropy</i> , 2016, 18, 6.	2.2	15
26	Orthogonally Evolved AI to Improve Difficulty Adjustment in Video Games. <i>Lecture Notes in Computer Science</i> , 2016, , 525-540.	1.3	7
27	Evolutionary game theory using agent-based methods. <i>Physics of Life Reviews</i> , 2016, 19, 1-26.	2.8	143
28	The reasonable effectiveness of agent-based simulations in evolutionary game theory. <i>Physics of Life Reviews</i> , 2016, 19, 38-42.	2.8	7
29	Evolvability Tradeoffs in Emergent Digital Replicators. <i>Artificial Life</i> , 2016, 22, 483-498.	1.3	5
30	The Evolution of Generosity in the Ultimatum Game. <i>Scientific Reports</i> , 2016, 6, 34102.	3.3	2
31	The Janus face of Darwinian competition. <i>Scientific Reports</i> , 2015, 5, 13662.	3.3	7
32	Punishment in public goods games leads to meta-stable phase transitions and hysteresis. <i>Physical Biology</i> , 2015, 12, 046005.	1.8	21
33	Risk sensitivity as an evolutionary adaptation. <i>Scientific Reports</i> , 2015, 5, 8242.	3.3	43
34	Evolution of Integrated Causal Structures in Animats Exposed to Environments of Increasing Complexity. <i>PLoS Computational Biology</i> , 2014, 10, e1003966.	3.2	71
35	Evolutionary instability of zero-determinant strategies demonstrates that winning is not everything. <i>Nature Communications</i> , 2013, 4, 2193.	12.8	150
36	The Evolution of Representation in Simple Cognitive Networks. <i>Neural Computation</i> , 2013, 25, 2079-2107.	2.2	57

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37	Predator confusion is sufficient to evolve swarming behaviour. Journal of the Royal Society Interface, 2013, 10, 20130305.	3.4	111
38	Impact of epistasis and pleiotropy on evolutionary adaptation. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 247-256.	2.6	85
39	Workshop: Graph compression approaches in assembly. , 2012, , .		0
40	Evolution and stability of altruist strategies in microbial games. Physical Review E, 2012, 85, 011914.	2.1	21
41	Sequence dependence of isothermal DNA amplification via EXPAR. Nucleic Acids Research, 2012, 40, e87-e87.	14.5	96
42	Scaling metagenome sequence assembly with probabilistic de Bruijn graphs. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13272-13277.	7.1	219
43	Information Content of Colored Motifs in Complex Networks. Artificial Life, 2011, 17, 375-390.	1.3	25
44	Integrated Information Increases with Fitness in the Evolution of Animats. PLoS Computational Biology, 2011, 7, e1002236.	3.2	84
45	Colored Motifs Reveal Computational Building Blocks in the C. elegans Brain. PLoS ONE, 2011, 6, e17013.	2.5	28
46	Modularity and anti-modularity in networks with arbitrary degree distribution. Biology Direct, 2010, 5, 32.	4.6	16
47	Critical Dynamics in the Evolution of Stochastic Strategies for the Iterated Prisoner's Dilemma. PLoS Computational Biology, 2010, 6, e1000948.	3.2	23
48	Measuring Representation. , 2010, , .		1
49	Evolution of Complex Modular Biological Networks. PLoS Computational Biology, 2008, 4, e23.	3.2	145
50	Global cell sorting in the C. elegans embryo defines a new mechanism for pattern formation. Developmental Biology, 2006, 294, 418-431.	2.0	69
51	Evolved digital ecosystems: Dynamic steady state, not optimal fixed point. , 0, , .		5
52	Evolution of an artificial visual cortex for image recognition. , 0, , .		5
53	Evolution of Autonomous Hierarchy Formation and Maintenance. , 0, , .		2