

George Barmpalias

List of Publications by Year in descending order

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74
papers

508
citations

687363

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888059

17
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75
all docs

75
docs citations

75
times ranked

90
citing authors

#	ARTICLE	IF	CITATIONS
1	Monotonous betting strategies in warped casinos. <i>Information and Computation</i> , 2020, 271, 104480.	0.7	0
2	Aspects of Chaitin's Omega. , 2020, , 175-205.		4
3	Granularity of wagers in games and the possibility of saving. <i>Information and Computation</i> , 2020, 275, 104600.	0.7	1
4	Limits of the Kolmogorov's Coding Method. , 2020, , 87-109.		3
5	Compression of Data Streams Down to Their Information Content. <i>IEEE Transactions on Information Theory</i> , 2019, 65, 4471-4485.	2.4	3
6	The idemetric property: when most distances are (almost) the same. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180283.	2.1	1
7	Optimal redundancy in computations from random oracles. <i>Journal of Computer and System Sciences</i> , 2018, 92, 1-8.	1.2	2
8	Digital morphogenesis via Schelling segregation. <i>Nonlinearity</i> , 2018, 31, 1593-1638.	1.4	2
9	Minority Population in the One-Dimensional Schelling Model of Segregation. <i>Journal of Statistical Physics</i> , 2018, 173, 1408-1458.	1.2	5
10	Equivalences between learning of data and probability distributions, and their applications. <i>Information and Computation</i> , 2018, 262, 123-140.	0.7	2
11	Pointed computations and Martin-Löf randomness. <i>Computability</i> , 2018, 7, 171-177.	0.3	0
12	Computing halting probabilities from other halting probabilities. <i>Theoretical Computer Science</i> , 2017, 660, 16-22.	0.9	4
13	Random numbers as probabilities of machine behavior. <i>Theoretical Computer Science</i> , 2017, 673, 1-18.	0.9	4
14	Kobayashi compressibility. <i>Theoretical Computer Science</i> , 2017, 675, 89-100.	0.9	4
15	The Probability of a Computable Output from a Random Oracle. <i>ACM Transactions on Computational Logic</i> , 2017, 18, 1-15.	0.9	2
16	Differences of halting probabilities. <i>Journal of Computer and System Sciences</i> , 2017, 89, 349-360.	1.2	5
17	A Note on the Differences of Computably Enumerable Reals. <i>Lecture Notes in Computer Science</i> , 2017, , 623-632.	1.3	2
18	Unperturbed Schelling Segregation in Two or Three Dimensions. <i>Journal of Statistical Physics</i> , 2016, 164, 1460-1487.	1.2	20

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19	Optimal asymptotic bounds on the oracle use in computations from Chaitin's Omega. Journal of Computer and System Sciences, 2016, 82, 1283-1299.	1.2	5
20	Lower bounds on the redundancy in computations from random oracles via betting strategies with restricted wagers. Information and Computation, 2016, 251, 287-300.	0.7	6
21	Tipping Points in 1-Dimensional Schelling Models with Switching Agents. Journal of Statistical Physics, 2015, 158, 806-852.	1.2	12
22	On the existence of a strong minimal pair. Journal of Mathematical Logic, 2015, 15, 1550003.	0.6	2
23	Integer valued betting strategies and Turing degrees. Journal of Computer and System Sciences, 2015, 81, 1387-1412.	1.2	6
24	The Information Content of Typical Reals. , 2015, , 207-224.		4
25	EXACT PAIRS FOR THE IDEAL OF THEK-TRIVIAL SEQUENCES IN THE TURING DEGREES. Journal of Symbolic Logic, 2014, 79, 676-692.	0.5	4
26	Theory and Applications of Models of Computation at the Turing Centenary in China. Theoretical Computer Science, 2014, 560, 107.	0.9	0
27	The typical Turing degree. Proceedings of the London Mathematical Society, 2014, 109, 1-39.	1.3	12
28	Digital Morphogenesis via Schelling Segregation. , 2014, , .		20
29	Universal computably enumerable sets and initial segment prefix-free complexity. Information and Computation, 2013, 233, 41-59.	0.7	3
30	Kolmogorov complexity and computably enumerable sets. Annals of Pure and Applied Logic, 2013, 164, 1187-1200.	0.5	4
31	On the Gap Between Trivial and Nontrivial Initial Segment Prefix-Free Complexity. Theory of Computing Systems, 2013, 52, 28-47.	1.1	8
32	Algorithmic Randomness and Measures of Complexity. Bulletin of Symbolic Logic, 2013, 19, 318-350.	0.2	2
33	Algorithmic randomness and measures of complexity. Bulletin of Symbolic Logic, 2013, 19, 318-350.	0.2	3
34	Resolute sequences in initial segment complexity. , 2013, , .		0
35	Universality probability of a prefix-free machine. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 3488-3511.	3.4	7
36	Randomness notions and partial relativization. Israel Journal of Mathematics, 2012, 191, 791-816.	0.8	14

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37	Measure and cupping in the Turing degrees. Proceedings of the American Mathematical Society, 2012, 140, 3607-3622.	0.8	2
38	Tracing and domination in the Turing degrees. Annals of Pure and Applied Logic, 2012, 163, 500-505.	0.5	3
39	Jump inversions inside effectively closed sets and applications to randomness. Journal of Symbolic Logic, 2011, 76, 491-518.	0.5	7
40	Manuel Lerman. A framework for priority arguments. Lecture Notes in Logic, vol. 34. Cambridge University Press, New York, 2010, xvi + 176 pp.. Bulletin of Symbolic Logic, 2011, 17, 464-467.	0.2	0
41	Kolmogorov complexity of initial segments of sequences and arithmetical definability. Theoretical Computer Science, 2011, 412, 5656-5667.	0.9	15
42	On the number of infinite sequences with trivial initial segment complexity. Theoretical Computer Science, 2011, 412, 7133-7146.	0.9	5
43	Upper bounds on ideals in the computably enumerable Turing degrees. Annals of Pure and Applied Logic, 2011, 162, 465-473.	0.5	5
44	Chaitin's halting probability and the compression of strings using oracles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 2912-2926.	2.1	12
45	K-TRIVIALS ARE NEVER CONTINUOUSLY RANDOM. , 2011, , .		3
46	Relative Randomness and Cardinality. Notre Dame Journal of Formal Logic, 2010, 51, .	0.4	9
47	Elementary differences between the degrees of unsolvability and degrees of compressibility. Annals of Pure and Applied Logic, 2010, 161, 923-934.	0.5	12
48	The importance of $\hat{1}$ classes in effective randomness. Journal of Symbolic Logic, 2010, 75, 387-400.	0.5	15
49	Working with strong reducibilities above totally Σ_1 -c.e. and array computable degrees. Transactions of the American Mathematical Society, 2009, 362, 777-813.	0.9	19
50	K-Triviality of Closed Sets and Continuous Functions. Journal of Logic and Computation, 2009, 19, 3-16.	0.8	6
51	Non-cupping, measure and computably enumerable splittings. Mathematical Structures in Computer Science, 2009, 19, 25-43.	0.6	6
52	Σ_1 -trivial degrees and the jump-traceability hierarchy. Proceedings of the American Mathematical Society, 2009, 137, 2099-2109.	0.8	9
53	Algorithmic randomness of continuous functions. Archive for Mathematical Logic, 2008, 46, 533-546.	0.3	10
54	Σ_1 classes, Σ_1 degrees and Turing degrees. Annals of Pure and Applied Logic, 2008, 156, 21-38. <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mi>R</mml:mi></mml:mrow></mml:math>	0.5	15

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55	Randomness, lowness and degrees. Journal of Symbolic Logic, 2008, 73, 559-577.	0.5	21
56	Algorithmic Randomness of Closed Sets. Journal of Logic and Computation, 2007, 17, 1041-1062.	0.8	26
57	Randomness and the linear degrees of computability. Annals of Pure and Applied Logic, 2007, 145, 252-257.	0.5	16
58	A Cappable Almost Everywhere Dominating Computably Enumerable Degree. Electronic Notes in Theoretical Computer Science, 2007, 167, 17-31.	0.9	6
59	K-Trivial Closed Sets and Continuous Functions. Lecture Notes in Computer Science, 2007, , 135-145.	1.3	1
60	Working with the LR Degrees. , 2007, , 89-99.		0
61	The \leq relation on the degrees of randomness <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema- xmlns: xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl="http://www.elsevier.com/xml/common/struct-bib/dtd"</small>	0.5	18
62	A C.E. Real That Cannot Be SW-Computed by Any $\hat{\infty}$ Number. Notre Dame Journal of Formal Logic, 2006, 47, 197.	0.4	15
63	Random non-cupping revisited. Journal of Complexity, 2006, 22, 850-857.	1.3	4
64	Random reals and Lipschitz continuity. Mathematical Structures in Computer Science, 2006, 16, 737.	0.6	14
65	Immunity Properties and the n-C.E. Hierarchy. Lecture Notes in Computer Science, 2006, , 694-703.	1.3	2
66	The Hypersimple-Free C.E. WTT Degrees Are Dense in the C.E. WTT Degrees. Notre Dame Journal of Formal Logic, 2006, 47, .	0.4	1
67	h-monotonically computable real numbers. Mathematical Logic Quarterly, 2005, 51, 157-170.	0.2	2
68	Hypersimplicity and semicomputability in the weak truth table degrees. Archive for Mathematical Logic, 2005, 44, 1045-1065.	0.3	7
69	Computably Enumerable Sets in the Solovay and the Strong Weak Truth Table Degrees. Lecture Notes in Computer Science, 2005, , 8-17.	1.3	16
70	Approximation Representations for $\hat{\infty}^2$ Reals. Archive for Mathematical Logic, 2004, 43, 947-964.	0.3	2
71	Approximation representations for reals and their wtt-degrees. Mathematical Logic Quarterly, 2004, 50, 370-380.	0.2	1
72	A transfinite hierarchy of reals. Mathematical Logic Quarterly, 2003, 49, 163-172.	0.2	5

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73	The approximation structure of a computably approximable real. <i>Journal of Symbolic Logic</i> , 2003, 68, 885-922.	0.5	4
74	On Δ^2 -computable reals. <i>Electronic Notes in Theoretical Computer Science</i> , 2002, 66, 1-12.	0.9	18