

Vasco Brattka

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,313
citations

430442

18
h-index

433756

31
g-index

77
all docs

77
docs citations

77
times ranked

167
citing authors

#	ARTICLE	IF	CITATIONS
1	Completion of choice. <i>Annals of Pure and Applied Logic</i> , 2021, 172, 102914.	0.3	8
2	WEIHRAUCH GOES BROUWERIAN. <i>Journal of Symbolic Logic</i> , 2020, 85, 1614-1653.	0.4	2
3	Dagstuhl Seminar on Measuring the Complexity of Computational Content 2018. <i>Computability</i> , 2020, 9, 167-168.	0.3	0
4	Connected choice and the Brouwer fixed point theorem. <i>Journal of Mathematical Logic</i> , 2019, 19, 1950004.	0.6	8
5	Preface of the special issue for the Oberwolfach Workshop on Computability Theory 2018. <i>Computability</i> , 2019, 8, 191-191.	0.3	0
6	On the Uniform Computational Content of the Baire Category Theorem. <i>Notre Dame Journal of Formal Logic</i> , 2018, 59, .	0.2	6
7	Addendum to: "The Bolzano-Weierstrass theorem is the jump of weak König's lemma". [Ann. Pure Appl. Logic 163 (6) (2012) 623-655]. <i>Annals of Pure and Applied Logic</i> , 2017, 168, 1605-1608.	0.3	0
8	On the Uniform Computational Content of Computability Theory. <i>Theory of Computing Systems</i> , 2017, 61, 1376-1426.	0.7	12
9	ON THE UNIFORM COMPUTATIONAL CONTENT OF RAMSEY'S THEOREM. <i>Journal of Symbolic Logic</i> , 2017, 82, 1278-1316.	0.4	19
10	The Vitali Covering Theorem in the Weihrauch Lattice. <i>Lecture Notes in Computer Science</i> , 2017, , 188-200.	1.0	4
11	Randomness and differentiability. <i>Transactions of the American Mathematical Society</i> , 2016, 368, 581-605.	0.5	30
12	Computability and Analysis, a Historical Approach. <i>Lecture Notes in Computer Science</i> , 2016, , 45-57.	1.0	4
13	Preface to the special issue: Computing with infinite data: topological and logical foundations. <i>Mathematical Structures in Computer Science</i> , 2015, 25, 1463-1465.	0.5	0
14	Probabilistic computability and choice. <i>Information and Computation</i> , 2015, 242, 249-286.	0.5	32
15	Computability and analysis: the legacy of Alan Turing. , 2014, , 1-47.		66
16	The Bolzano-Weierstrass Theorem is the jump of Weak König's Lemma. <i>Annals of Pure and Applied Logic</i> , 2012, 163, 623-655.	0.3	60
17	Closed choice and a Uniform Low Basis Theorem. <i>Annals of Pure and Applied Logic</i> , 2012, 163, 986-1008.	0.3	58
18	On the Computational Content of the Brouwer Fixed Point Theorem. <i>Lecture Notes in Computer Science</i> , 2012, , 56-67.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Weihrauch degrees, omniscience principles and weak computability. <i>Journal of Symbolic Logic</i> , 2011, 76, 143-176.	0.4	75
20	Effective Choice and Boundedness Principles in Computable Analysis. <i>Bulletin of Symbolic Logic</i> , 2011, 17, 73-117.	0.2	67
21	Computability of finite-dimensional linear subspaces and best approximation. <i>Annals of Pure and Applied Logic</i> , 2010, 162, 182-193.	0.3	1
22	Borel Complexity of Topological Operations on Computable Metric Spaces. <i>Journal of Logic and Computation</i> , 2009, 19, 45-76.	0.5	19
23	A computable version of Banach's Inverse Mapping Theorem. <i>Annals of Pure and Applied Logic</i> , 2009, 157, 85-96.	0.3	4
24	Computability of the Metric Projection Onto Finite-dimensional Linear Subspaces. <i>Electronic Notes in Theoretical Computer Science</i> , 2008, 221, 45-60.	0.9	0
25	Borel complexity and computability of the Hahn-Banach Theorem. <i>Archive for Mathematical Logic</i> , 2008, 46, 547-564.	0.2	15
26	Editorial: <i>Math. Log. Quart.</i> 5/2008. <i>Mathematical Logic Quarterly</i> , 2008, 54, 453-453.	0.2	0
27	Plottable Real Number Functions and the Computable Graph Theorem. <i>SIAM Journal on Computing</i> , 2008, 38, 303-328.	0.8	43
28	A Tutorial on Computable Analysis. , 2008, , 425-491.		99
29	Computability of compact operators on computable Banach spaces with bases. <i>Mathematical Logic Quarterly</i> , 2007, 53, 345-364.	0.2	2
30	On Computable Compact Operators on Banach Spaces. <i>Electronic Notes in Theoretical Computer Science</i> , 2007, 167, 365-386.	0.9	0
31	From Hilbert's 13th Problem to the theory of neural networks: constructive aspects of Kolmogorov's Superposition Theorem. , 2007, , 253-280.		7
32	Borel Complexity of Topological Operations on Computable Metric Spaces. <i>Lecture Notes in Computer Science</i> , 2007, , 83-97.	1.0	10
33	Towards computability of elliptic boundary value problems in variational formulation. <i>Journal of Complexity</i> , 2006, 22, 858-880.	0.7	24
34	Effective Borel measurability and reducibility of functions. <i>Mathematical Logic Quarterly</i> , 2005, 51, 19-44.	0.2	70
35	On the Borel Complexity of Hahn-Banach Extensions. <i>Electronic Notes in Theoretical Computer Science</i> , 2005, 120, 3-16.	0.9	5
36	Computing with Sequences, Weak Topologies and the Axiom of Choice. <i>Lecture Notes in Computer Science</i> , 2005, , 462-476.	1.0	9

#	ARTICLE	IF	CITATIONS
37	COMPUTABILITY ON NON-SEPARABLE BANACH SPACES AND LANDAU'S THEOREM. , 2005, , 316-334.		9
38	Computability and Complexity in Analysis (CCA). A View from Interval Computations -Cincinnati, Ohio, USA, August 28â€“30, 2003. Reliable Computing, 2004, 10, 75-80.	0.8	0
39	Computability in linear algebra. Theoretical Computer Science, 2004, 326, 187-211.	0.5	26
40	Generated quasi-metric hyper and function spaces. Topology and Its Applications, 2003, 127, 355-373.	0.2	2
41	Recursive quasi-metric spaces. Theoretical Computer Science, 2003, 305, 17-42.	0.5	14
42	Computability on subsets of metric spaces. Theoretical Computer Science, 2003, 305, 43-76.	0.5	117
43	The Inversion Problem for Computable Linear Operators. Lecture Notes in Computer Science, 2003, , 391-402.	1.0	8
44	Computability over Topological Structures. , 2003, , 93-136.		23
45	Effective representations of the space of linear bounded operators. Applied General Topology, 2003, 4, 115.	0.1	4
46	Preface: MLQ - Math. Log. Quart. Supplement 1/2002. Mathematical Logic Quarterly, 2002, 48, III-III.	0.2	0
47	Computing Uniform Bounds. Electronic Notes in Theoretical Computer Science, 2002, 66, 13-24.	0.9	5
48	Topological properties of real number representations. Theoretical Computer Science, 2002, 284, 241-257.	0.5	39
49	Computability of Linear Equations. , 2002, , 95-106.		3
50	Recursion and Computability over Topological Structures. Electronic Notes in Theoretical Computer Science, 2001, 40, 5.	0.9	0
51	Computable Versions of Baireâ€™s Category Theorem. Lecture Notes in Computer Science, 2001, , 224-235.	1.0	17
52	A Computable Spectral Theorem. Lecture Notes in Computer Science, 2001, , 378-388.	1.0	11
53	Computing the Dimension of Linear Subspaces. Lecture Notes in Computer Science, 2000, , 450-458.	1.0	5
54	Computable invariance. Theoretical Computer Science, 1999, 210, 3-20.	0.5	30

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55	Computability on subsets of Euclidean space I: closed and compact subsets. Theoretical Computer Science, 1999, 219, 65-93.	0.5	105
56	Approaches to Effective Semi-Continuity of Real Functions. Mathematical Logic Quarterly, 1999, 45, 481-496.	0.2	3
57	Feasible Real Random Access Machines. Journal of Complexity, 1998, 14, 490-526.	0.7	34
58	Computable invariance. Lecture Notes in Computer Science, 1997, , 146-155.	1.0	4
59	Order-free Recursion on the Real Numbers. Mathematical Logic Quarterly, 1997, 43, 216-234.	0.2	9
60	Feasible real random access machines. Lecture Notes in Computer Science, 1996, , 335-342.	1.0	4
61	Recursive characterization of computable real-valued functions and relations. Theoretical Computer Science, 1996, 162, 45-77.	0.5	41
62	Computable versions of the uniform boundedness theorem. , 0, , 130-151.		2
63	Computation with Advice. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 24, 41-55.	0.8	14
64	THE DISCONTINUITY PROBLEM. Journal of Symbolic Logic, 0, , 1-22.	0.4	1