

Ian McQuillan

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

297
citations

1162367

8
h-index

1125271

13
g-index

69
all docs

69
docs citations

69
times ranked

125
citing authors

#	ARTICLE	IF	CITATIONS
1	L-system models for image-based phenomics: case studies of maize and canola. In <i>Silico Plants</i> , 2022, 4, .	0.8	9
2	Relationships between bounded languages, counter machines, finite-index grammars, ambiguity, and commutative regularity. <i>Theoretical Computer Science</i> , 2021, 862, 97-118.	0.5	3
3	On finite-index indexed grammars and their restrictions. <i>Information and Computation</i> , 2021, 279, 104613.	0.5	3
4	Juxtapose: a gene-embedding approach for comparing co-expression networks. <i>BMC Bioinformatics</i> , 2021, 22, 125.	1.2	10
5	Generalizations of Checking Stack Automata: Characterizations and Hierarchies. <i>International Journal of Foundations of Computer Science</i> , 2021, 32, 481-508.	0.8	4
6	Techniques for inferring context-free Lindenmayer systems with genetic algorithm. <i>Swarm and Evolutionary Computation</i> , 2021, 64, 100893.	4.5	3
7	Comparative Analyses of Gene Co-expression Networks: Implementations and Applications in the Study of Evolution. <i>Frontiers in Genetics</i> , 2021, 12, 695399.	1.1	21
8	Silver: Forging almost Gold Standard Datasets. <i>Genes</i> , 2021, 12, 1523.	1.0	1
9	Space Complexity of Stack Automata Models. <i>International Journal of Foundations of Computer Science</i> , 2021, 32, 801-823.	0.8	3
10	Exploiting High-Throughput Indoor Phenotyping to Characterize the Founders of a Structured B. napus Breeding Population. <i>Frontiers in Plant Science</i> , 2021, 12, 780250.	1.7	3
11	A Novel Technique Combining Image Processing, Plant Development Properties, and the Hungarian Algorithm, to Improve Leaf Detection in Maize. , 2020, , .		4
12	Space Complexity of Stack Automata Models. <i>Lecture Notes in Computer Science</i> , 2020, , 137-149.	1.0	1
13	Semilinearity of Families of Languages. <i>International Journal of Foundations of Computer Science</i> , 2020, 31, 1179-1198.	0.8	3
14	Inferring Temporal Parametric L-systems Using Cartesian Genetic Programming. , 2020, , .		1
15	State grammars with stores. <i>Theoretical Computer Science</i> , 2019, 798, 23-39.	0.5	1
16	On families of full trios containing counter machine languages. <i>Theoretical Computer Science</i> , 2019, 799, 71-93.	0.5	3
17	Size matters: how sample size affects the reproducibility and specificity of gene set analysis. <i>Human Genomics</i> , 2019, 13, 42.	1.4	30
18	On store languages and applications. <i>Information and Computation</i> , 2019, 267, 28-48.	0.5	0

#	ARTICLE	IF	CITATIONS
19	On counting functions and slenderness of languages. Theoretical Computer Science, 2019, 777, 356-378.	0.5	4
20	Insertion operations on deterministic reversal-bounded counter machines. Journal of Computer and System Sciences, 2019, 104, 244-257.	0.9	4
21	Gene Set Databases. , 2019, , .		4
22	Pineplot. , 2019, , .		2
23	On the complexity and decidability of some problems involving shuffle. Information and Computation, 2018, 259, 214-224.	0.5	3
24	Inferring Stochastic L-Systems Using a Hybrid Greedy Algorithm. , 2018, , .		3
25	Prediction of transposable elements evolution using tabu search. , 2018, , .		0
26	Sample Size and Reproducibility of Gene Set Analysis. , 2018, , .		2
27	DNA Methylation Data to Predict Suicidal and Non-Suicidal Deaths: A Machine Learning Approach. , 2018, , .		2
28	A Fast and Reliable Hybrid Approach for Inferring L-systems. , 2018, , .		5
29	On store languages of language acceptors. Theoretical Computer Science, 2018, 745, 114-132.	0.5	6
30	Variations of checking stack automata: Obtaining unexpected decidability properties. Theoretical Computer Science, 2018, 738, 1-12.	0.5	8
31	On the Density of Context-Free and Counter Languages. International Journal of Foundations of Computer Science, 2018, 29, 233-250.	0.8	5
32	State Grammars with Stores. Lecture Notes in Computer Science, 2018, , 163-174.	1.0	1
33	Generalizations of Checking Stack Automata: Characterizations and Hierarchies. Lecture Notes in Computer Science, 2018, , 416-428.	1.0	2
34	Input-Position-Restricted Models of Language Acceptors. Emergence, Complexity and Computation, 2018, , 357-372.	0.2	0
35	New Techniques for Inferring L-systems Using Genetic Algorithm. Lecture Notes in Computer Science, 2018, , 13-25.	1.0	4
36	Semilinearity of Families of Languages. Lecture Notes in Computer Science, 2018, , 211-222.	1.0	1

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37	Algorithms for Inferring Context-Sensitive L-Systems. Lecture Notes in Computer Science, 2018, , 117-130.	1.0	6
38	Deletion operations on deterministic families of automata. Information and Computation, 2017, 256, 237-252.	0.5	4
39	Computational identification of harmful mutation regions to the activity of transposable elements. BMC Genomics, 2017, 18, 862.	1.2	2
40	On Finite-Index Indexed Grammars and Their Restrictions. Lecture Notes in Computer Science, 2017, , 287-298.	1.0	3
41	CSA-X: Modularized Constrained Multiple Sequence Alignment. Lecture Notes in Computer Science, 2017, , 143-154.	1.0	1
42	Variations of Checking Stack Automata: Obtaining Unexpected Decidability Properties. Lecture Notes in Computer Science, 2017, , 235-246.	1.0	1
43	Descrambling Order Analysis in Ciliates. Lecture Notes in Computer Science, 2017, , 206-219.	1.0	3
44	The effect of end-markers on counter machines and commutativity. Theoretical Computer Science, 2016, 627, 71-81.	0.5	13
45	Run for Third!: A Defense of Aggressive Base Running. Math Horizons, 2016, 23, 14-15.	0.0	2
46	Computational modelling of interruptional activities between transposable elements using grammars and the linear ordering problem. Soft Computing, 2016, 20, 19-35.	2.1	1
47	On Families of Full Trios Containing Counter Machine Languages. Lecture Notes in Computer Science, 2016, , 216-228.	1.0	2
48	On Bounded Semilinear Languages, Counter Machines, and Finite-Index ETOL. Lecture Notes in Computer Science, 2016, , 138-149.	1.0	3
49	Insertion Operations on Deterministic Reversal-Bounded Counter Machines. Lecture Notes in Computer Science, 2015, , 200-211.	1.0	4
50	Algorithmic decomposition of shuffle on words. Theoretical Computer Science, 2012, 454, 38-50.	0.5	5
51	Generalized Derivations with Synchronized Context-Free Grammars. Lecture Notes in Computer Science, 2012, , 109-120.	1.0	0
52	Parallelizing Peptide-Spectrum scoring using modern graphics processing units. , 2011, , .		2
53	Theoretical and computational properties of transpositions. Natural Computing, 2011, 10, 795-804.	1.8	1
54	Speed improvements of peptide-spectrum matching using Single-Instruction Multiple-Data instructions. Proteomics, 2011, 11, 3779-3785.	1.3	2

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55	Algorithmic properties of ciliate sequence alignment. Theoretical Computer Science, 2010, 411, 919-925.	0.5	3
56	Modelling programmed frameshifting with frameshift machines. Natural Computing, 2010, 9, 239-261.	1.8	0
57	Speed improvements of peptide-spectrum matching using SIMD instructions. , 2010, , .		0
58	On the uniqueness of shuffle on words and finite languages. Theoretical Computer Science, 2009, 410, 3711-3724.	0.5	8
59	Useful Templates and Iterated Template-Guided DNA Recombination in Ciliates. Theory of Computing Systems, 2006, 39, 619-633.	0.7	10
60	Template-guided DNA recombination. Theoretical Computer Science, 2005, 330, 237-250.	0.5	22
61	Families of languages defined by ciliate bio-operations. Theoretical Computer Science, 2004, 320, 51-69.	0.5	14
62	On the Shuffle Automaton Size for Words. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 3, 79-89.	0.8	3