

Erkki MÄäkinen

List of Publications by Year in descending order

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88
papers

778
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623188

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642321

23
g-index

89
all docs

89
docs citations

89
times ranked

427
citing authors

#	ARTICLE	IF	CITATIONS
1	On Derivation Languages of a Class of Splicing Systems. Acta Cybernetica, 2018, 23, 981-993.	0.5	7
2	A review on objective measurement of usage in technology acceptance studies. Universal Access in the Information Society, 2016, 15, 713-726.	2.1	10
3	A Note on the Emptiness of Intersection Problem for Left Szilard Languages. Acta Cybernetica, 2016, 22, 613-616.	0.5	0
4	Various heuristic algorithms to minimise the two-page crossing numbers of graphs. Open Computer Science, 2015, 5, 22-40.	1.3	2
5	Task-oriented distributed data fusion in autonomous wireless sensor networks. Soft Computing, 2015, 19, 2305-2319.	2.1	10
6	Techniques for Genetic Software Architecture Design. Computer Journal, 2015, 58, 3141-3170.	1.5	2
7	On accepting smart environments at user and societal levels. Universal Access in the Information Society, 2014, 13, 449-469.	2.1	5
8	On some derivation mechanisms and the complexity of their Szilard languages. Theoretical Computer Science, 2014, 537, 87-96.	0.5	6
9	The Complexity of Szilard Languages of Matrix Grammars Revisited. Fundamenta Informaticae, 2013, 123, 381-399.	0.3	2
10	Simulated Annealing for Aiding Genetic Algorithm in Software Architecture Synthesis. Acta Cybernetica, 2013, 21, 235-265.	0.5	4
11	Task-oriented Distributed Information Fusion in Wireless Sensor Networks. , 2012, , .		0
12	An Annotated Bibliography on the Thickness, Outerthickness, and Arboricity of a Graph. Missouri Journal of Mathematical Sciences, 2012, 24, .	0.3	3
13	On the Complexity of Szilard Languages of Matrix Grammars. , 2011, , .		4
14	Generating software architecture spectrum with multi-objective genetic algorithms. , 2011, , .		15
15	Multi-objective genetic synthesis of software architecture. , 2011, , .		1
16	Synthesizing Architecture from Requirements: A Genetic Approach. , 2011, , 307-331.		7
17	On the Complexity of Szilard Languages of Regulated Grammars. Lecture Notes in Computer Science, 2011, , 77-94.	1.0	2
18	Complementary crossover for genetic software architecture synthesis. , 2010, , .		11

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19	One- and two-page crossing numbers for some types of graphs. International Journal of Computer Mathematics, 2010, 87, 1667-1679.	1.0	4
20	Scenario-Based Genetic Synthesis of Software Architecture. , 2009, , .		9
21	Classes of Szilard Languages in NC ¹ . , 2009, , .		6
22	Empirical study on the effect of crossover in genetic software architecture synthesis. , 2009, , .		11
23	A Neural Network Model to Minimize the Connected Dominating Set for Self-Configuration of Wireless Sensor Networks. IEEE Transactions on Neural Networks, 2009, 20, 973-982.	4.8	47
24	Three New Algorithms for Regular Language Enumeration. Lecture Notes in Computer Science, 2009, , 178-191.	1.0	6
25	Genetic Synthesis of Software Architecture. Lecture Notes in Computer Science, 2008, , 565-574.	1.0	24
26	Parallelisation of genetic algorithms for the 2-page crossing number problem. Journal of Parallel and Distributed Computing, 2007, 67, 229-241.	2.7	15
27	Genetic algorithms for the 2-page book drawing problem of graphs. Journal of Heuristics, 2007, 13, 77-93.	1.1	11
28	On a parallel machine scheduling problem with precedence constraints. Journal of Scheduling, 2006, 9, 493-495.	1.3	15
29	An Improved Neural Network Model for the Two-Page Crossing Number Problem. IEEE Transactions on Neural Networks, 2006, 17, 1642-1646.	4.8	9
30	Constructing and Reconstructing the Reorderable Matrix. Information Visualization, 2005, 4, 32-48.	1.2	51
31	Minimally adequate teacher synthesizes statechart diagrams. Acta Informatica, 2002, 38, 235-259.	0.5	5
32	Automated compression of state machines using UML statechart diagram notation. Information and Software Technology, 2002, 44, 565-578.	3.0	4
33	Synchronized extension systems. Acta Informatica, 2001, 37, 449-465.	0.5	2
34	A note on synchronized extension systems. Information Processing Letters, 2001, 79, 7-9.	0.4	1
35	A genetic algorithm for determining the thickness of a graph. Information Sciences, 2001, 138, 155-164.	4.0	3
36	On the longest upsequence problem for permutations. International Journal of Computer Mathematics, 2001, 77, 45-53.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Restricted universe data structures. SIGCSE Bulletin, 2000, 32, 22-24.	0.1	0
38	On inferring linear single-tree languages. Information Processing Letters, 2000, 73, 1-3.	0.4	9
39	Constructing a binary tree efficiently from its traversals. International Journal of Computer Mathematics, 2000, 75, 143-147.	1.0	3
40	Inferring regular languages by merging nonterminals. International Journal of Computer Mathematics, 1999, 70, 601-616.	1.0	4
41	Generating random binary trees – A survey. Information Sciences, 1999, 115, 123-136.	4.0	16
42	Searching neural network structures with L systems and genetic algorithms. International Journal of Computer Mathematics, 1999, 73, 55-75.	1.0	8
43	Remarks on the thickness of a graph. Information Sciences, 1998, 108, 1-4.	4.0	3
44	Ranking and unranking left sziard languages. International Journal of Computer Mathematics, 1998, 68, 29-38.	1.0	2
45	Inferring uniquely terminating regular languages from positive data. Information Processing Letters, 1997, 62, 57-60.	0.4	5
46	Pattern Ambiguities for Pure Context-Free Grammars. Fundamenta Informaticae, 1997, 30, 183-191.	0.3	1
47	Learning deterministic even linear languages from positive examples. Theoretical Computer Science, 1997, 185, 63-79.	0.5	22
48	A NOTE ON THE GRAMMATICAL INFERENCE PROBLEM FOR EVEN LINEAR LANGUAGES. Fundamenta Informaticae, 1996, 25, 175-181.	0.3	12
49	(0,1)-TOTALITY IS UNDECIDABLE FOR ARBITRARY CONTEXT-FREE GRAMMARS. Fundamenta Informaticae, 1996, 27, 413-415.	0.3	0
50	Programming projects on chess. SIGCSE Bulletin, 1996, 28, 41-44.	0.1	0
51	A family of languages which is polynomial-time learnable from positive data in pitt's sense. International Journal of Computer Mathematics, 1996, 61, 175-179.	1.0	2
52	A programming project. SIGCSE Bulletin, 1995, 27, 34-38.	0.1	6
53	Automatic synthesis of state machines from trace diagrams. Software - Practice and Experience, 1994, 24, 643-658.	2.5	68
54	Genetic algorithms for drawing bipartite graphs. International Journal of Computer Mathematics, 1994, 53, 157-166.	1.0	12

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55	On the relationship between diagram synthesis and grammatical inference erkki makinen. International Journal of Computer Mathematics, 1994, 52, 129-137.	1.0	2
56	On homomorphic images of left szilard languages. International Journal of Computer Mathematics, 1992, 46, 131-135.	1.0	1
57	On drawing regular bipartite graphs. International Journal of Computer Mathematics, 1992, 43, 39-43.	1.0	1
58	Remarks on the structural grammatical inference problem for context-free grammars. Information Processing Letters, 1992, 44, 125-127.	0.4	3
59	On the structural grammatical inference problem for some classes of context-free grammars. Information Processing Letters, 1992, 42, 1-5.	0.4	16
60	On the Generative Capacity of Context-Free Matrix Grammars over One-Letter Alphabet. Fundamenta Informaticae, 1992, 16, 93-97.	0.3	0
61	On Grammatical Inference and Derivational Complexity of Context-Free Grammars. Fundamenta Informaticae, 1992, 17, 363-368.	0.3	0
62	A linear time and space algorithm for finding isomorphic subtrees of a binary tree. BIT Numerical Mathematics, 1991, 31, 353-357.	1.0	1
63	A Hierarchy of Context-Free Derivations. Fundamenta Informaticae, 1991, 14, 255-259.	0.3	0
64	On Pure Context-Free Languages and Left Szilard Languages. Fundamenta Informaticae, 1991, 15, 86-89.	0.3	1
65	The grammatical inference problem for the Szilard languages of linear grammars. Information Processing Letters, 1990, 36, 203-206.	0.4	24
66	TREE COMPRESSION AND OPTIMIZATION WITH APPLICATIONS. International Journal of Foundations of Computer Science, 1990, 01, 425-447.	0.8	35
67	Experiments on drawing 2-level hierarchical graphs. International Journal of Computer Mathematics, 1990, 36, 175-181.	1.0	19
68	Experiments on drawing 2-level hierarchical graphs. International Journal of Computer Mathematics, 1990, 37, 129-135.	1.0	7
69	How to draw a hypergraph. International Journal of Computer Mathematics, 1990, 34, 177-185.	1.0	49
70	Splay trees as priority queues. International Journal of Computer Mathematics, 1989, 31, 55-62.	1.0	0
71	On the subtree isomorphism problem for ordered trees. Information Processing Letters, 1989, 32, 271-273.	0.4	24
72	Constructing a binary tree from its traversals. BIT Numerical Mathematics, 1989, 29, 572-575.	1.0	6

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73	A Note on the Median Heuristic for Drawing Bipartite Graphs. <i>Fundamenta Informaticae</i> , 1989, 12, 563-569.	0.3	4
74	On linear search heuristics. <i>Information Processing Letters</i> , 1988, 29, 35-36.	0.4	4
75	On the rotation distance of binary trees. <i>Information Processing Letters</i> , 1988, 26, 271-272.	0.4	23
76	On circular layouts. <i>International Journal of Computer Mathematics</i> , 1988, 24, 29-37.	1.0	20
77	A note on the inclusion problem for szilard languages. <i>International Journal of Computer Mathematics</i> , 1987, 21, 291-295.	1.0	1
78	On top-down splaying. <i>BIT Numerical Mathematics</i> , 1987, 27, 330-339.	1.0	4
79	Left distance binary tree representations. <i>BIT Numerical Mathematics</i> , 1987, 27, 163-169.	1.0	13
80	A note on pure grammars. <i>Information Processing Letters</i> , 1986, 23, 271-274.	0.4	5
81	On homomorphic images of szilard languages. <i>International Journal of Computer Mathematics</i> , 1986, 18, 239-245.	1.0	4
82	An undecidable problem for context-free grammars. <i>Information Processing Letters</i> , 1985, 20, 141-142.	0.4	1
83	A note on undercover relation. <i>Information Processing Letters</i> , 1985, 20, 19-21.	0.4	0
84	A note on depth-first derivations. <i>BIT Numerical Mathematics</i> , 1985, 25, 293-296.	1.0	2
85	On permutative grammars generating context-free languages. <i>BIT Numerical Mathematics</i> , 1985, 25, 604-610.	1.0	6
86	On derivation preservation. <i>Information Processing Letters</i> , 1984, 19, 225-228.	0.4	1
87	On context-free and Szilard languages. <i>BIT Numerical Mathematics</i> , 1984, 24, 164-170.	1.0	9
88	Boundedness testing for unambiguous context-free grammars. <i>Information Processing Letters</i> , 1983, 17, 181-183.	0.4	0