

Hiroki Arimura

List of Publications by Year in descending order

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65
papers

1,326
citations

623574

14
h-index

454834

30
g-index

71
all docs

71
docs citations

71
times ranked

542
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear-Time Longest-Common-Prefix Computation in Suffix Arrays and Its Applications. Lecture Notes in Computer Science, 2001, , 181-192.	1.0	278
2	Efficient Substructure Discovery from Large Semi-structured Data. , 2002, , .		248
3	An Efficient Algorithm for Enumerating Closed Patterns in Transaction Databases. Lecture Notes in Computer Science, 2004, , 16-31.	1.0	137
4	Discovering Frequent Substructures in Large Unordered Trees. Lecture Notes in Computer Science, 2003, , 47-61.	1.0	107
5	Optimized Substructure Discovery for Semi-structured Data. Lecture Notes in Computer Science, 2002, , 1-14.	1.0	52
6	Learning acyclic first-order horn sentences from entailment. Lecture Notes in Computer Science, 1997, , 432-445.	1.0	35
7	Efficient discovery of optimal word-association patterns in large text databases. New Generation Computing, 2000, 18, 49-60.	2.5	33
8	An efficient polynomial space and polynomial delay algorithm for enumeration of maximal motifs in a sequence. Journal of Combinatorial Optimization, 2007, 13, 243-262.	0.8	31
9	Inductive inference of unbounded unions of pattern languages from positive data. Theoretical Computer Science, 2000, 241, 191-209.	0.5	30
10	Efficient Learning of Semi-structured Data from Queries. Lecture Notes in Computer Science, 2001, , 315-331.	1.0	25
11	LCM over ZBDDs: Fast Generation of Very Large-Scale Frequent Itemsets Using a Compact Graph-Based Representation. , 2008, , 234-246.		25
12	A Fast Algorithm for Discovering Optimal String Patterns in Large Text Databases. Lecture Notes in Computer Science, 1998, , 247-261.	1.0	20
13	Learning unions of tree patterns using queries. Theoretical Computer Science, 1997, 185, 47-62.	0.5	19
14	A polynomial time algorithm for finding finite unions of tree pattern languages. , 1991, , 118-131.		18
15	Finding minimal generalizations for unions of pattern languages and its application to inductive inference from positive data. Lecture Notes in Computer Science, 1994, , 647-660.	1.0	18
16	Dynamic reconfigurable bit-parallel architecture for large-scale regular expression matching. , 2010, , .		16
17	An Output-Polynomial Time Algorithm for Mining Frequent Closed Attribute Trees. Lecture Notes in Computer Science, 2005, , 1-19.	1.0	15
18	Time and Space Efficient Discovery of Maximal Geometric Graphs. , 2007, , 42-55.		13

#	ARTICLE	IF	CITATIONS
19	Learning elementary formal systems with queries. Theoretical Computer Science, 2003, 298, 21-50.	0.5	12
20	Counterexamples to the long-standing conjecture on the complexity of BDD binary operations. Information Processing Letters, 2012, 112, 636-640.	0.4	12
21	Efficient Algorithms for Mining Frequent and Closed Patterns from Semi-structured Data. , 2008, , 2-13.		9
22	Discovering Unordered and Ordered Phrase Association Patterns for Text Mining. Lecture Notes in Computer Science, 2000, , 281-293.	1.0	8
23	Estimating the Lineage Dynamics of Human Influenza B Viruses. PLoS ONE, 2016, 11, e0166107.	1.1	8
24	Efficient Discovery of Proximity Patterns with Suffix Arrays (Extended Abstract). Lecture Notes in Computer Science, 2001, , 152-156.	1.0	7
25	Learning unions of tree patterns using queries. Lecture Notes in Computer Science, 1995, , 66-79.	1.0	7
26	Efficient Enumeration of Induced Subtrees in a K-Degenerate Graph. Lecture Notes in Computer Science, 2014, , 94-102.	1.0	7
27	Mining Maximal Flexible Patterns in a Sequence. Lecture Notes in Computer Science, 2008, , 307-317.	1.0	7
28	Mining Frequent Bipartite Episode from Event Sequences. Lecture Notes in Computer Science, 2009, , 136-151.	1.0	7
29	Efficient Text Mining with Optimized Pattern Discovery. Lecture Notes in Computer Science, 2002, , 17-19.	1.0	6
30	Knowledge Discovery from Semistructured Texts. Lecture Notes in Computer Science, 2002, , 586-599.	1.0	6
31	Fast Bit-Parallel Matching for Network and Regular Expressions. Lecture Notes in Computer Science, 2010, , 372-384.	1.0	5
32	Sequence binary decision diagram: Minimization, relationship to acyclic automata, and complexities of Boolean set operations. Discrete Applied Mathematics, 2016, 212, 61-80.	0.5	5
33	Sparse and Truncated Suffix Trees on Variable-Length Codes. Lecture Notes in Computer Science, 2011, , 246-260.	1.0	5
34	Frequent Closed Item Set Mining Based on Zero-suppressed BDDs. Transactions of the Japanese Society for Artificial Intelligence, 2007, 22, 165-172.	0.1	5
35	Polynomial time inference of a subclass of context-free transformations. , 1992, , .		4
36	Identification of Tree Translation Rules from Examples. Lecture Notes in Computer Science, 2000, , 241-255.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Extracting sequential episodes representing replacements of bacteria from bacterial culture data. , 2009, , .		4
38	Faster bit-parallel algorithms for unordered pseudo-tree matching and tree homeomorphism. Journal of Discrete Algorithms, 2012, 14, 119-135.	0.7	4
39	Enumeration of complete set of flock patterns in trajectories. , 2014, , .		4
40	Constant Time Enumeration of Subtrees with Exactly k Nodes in a Tree. IEICE Transactions on Information and Systems, 2014, E97.D, 421-430.	0.4	4
41	Mining Semi-structured Data by Path Expressions. Lecture Notes in Computer Science, 2001, , 378-388.	1.0	4
42	A Polynomial-Delay Polynomial-Space Algorithm for Extracting Frequent Diamond Episodes from Event Sequences. Lecture Notes in Computer Science, 2009, , 172-183.	1.0	4
43	Constant Time Enumeration of Bounded-Size Subtrees in Trees and Its Application. Lecture Notes in Computer Science, 2012, , 347-359.	1.0	4
44	An Efficient Algorithm for Complex Pattern Matching over Continuous Data Streams Based on Bit-Parallel Method. , 2007, , .		3
45	DenseZDD: A Compact and Fast Index for Families of Sets. Algorithms, 2018, 11, 128.	1.2	3
46	Mining Frequent k -Partite Episodes from Event Sequences. Lecture Notes in Computer Science, 2010, , 331-344.	1.0	3
47	Ambiguous Frequent Itemset Mining and Polynomial Delay Enumeration. , 2008, , 357-368.		3
48	Finding tree patterns consistent with positive and negative examples using queries. Annals of Mathematics and Artificial Intelligence, 1998, 23, 101-115.	0.9	2
49	Hardness Results on Local Multiple Alignment of Biological Sequences. IPSJ Digital Courier, 2007, 3, 174-182.	0.3	2
50	An Efficient Depth-first Search Algorithm for Extracting Frequent Diamond Episodes from Event Sequences. IPSJ Online Transactions, 2010, 3, 1-12.	0.1	2
51	The Relevance Dependent Infinite Relational Model for Discovering Co-Cluster Structure from Relationships with Structured Noise. IEICE Transactions on Information and Systems, 2016, E99.D, 1139-1152.	0.4	2
52	Finding tree patterns consistent with positive and negative examples using queries. Lecture Notes in Computer Science, 1994, , 317-332.	1.0	2
53	Aligned bipartite episodes between the genera of bacteria. , 2010, , .		1
54	A Dynamically Reconfigurable FPGA-Based Pattern Matching Hardware for Subclasses of Regular Expressions. IEICE Transactions on Information and Systems, 2012, E95.D, 1847-1857.	0.4	1

#	ARTICLE	IF	CITATIONS
55	The Complexity of Induced Tree Reconfiguration Problems. IEICE Transactions on Information and Systems, 2019, E102.D, 464-469.	0.4	1
56	Efficient enumeration of dominating sets for sparse graphs. Discrete Applied Mathematics, 2021, 303, 283-295.	0.5	1
57	An Efficient Tool for Discovering Simple Combinatorial Patterns from Large Text Databases. Lecture Notes in Computer Science, 1998, , 393-395.	1.0	1
58	Polynomial Delay and Space Discovery of Connected and Acyclic Sub-hypergraphs in a Hypergraph. Lecture Notes in Computer Science, 2013, , 308-323.	1.0	1
59	Discovering Co-Cluster Structure from Relationships between Biased Objects. IEICE Transactions on Information and Systems, 2018, E101.D, 3108-3122.	0.4	1
60	Efficient Approximate 3-Dimensional Point Set Matching Using Root-Mean-Square Deviation Score. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 1159-1170.	0.2	1
61	Fairness-Aware Decision Tree Editing Based on Mixed- Integer Linear Optimization. Transactions of the Japanese Society for Artificial Intelligence, 2021, 36, B-L13_1-10.	0.1	0
62	Efficient Algorithms for Discovering Frequent and Maximal Substructures from Large Semistructured Data. Lecture Notes in Electrical Engineering, 2011, , 353-358.	0.3	0
63	Faster Algorithms for Tree Similarity Based on Compressed Enumeration of Bounded-Sized Ordered Subtrees. Lecture Notes in Computer Science, 2013, , 73-84.	1.0	0
64	Discovery of Regularized Areas with Maximal Confidence from Location Data. Transactions of the Japanese Society for Artificial Intelligence, 2019, 34, D-I56_1-10.	0.1	0
65	Distribution-Aware Counterfactual Explanation by Mixed-Integer Linear Optimization. Transactions of the Japanese Society for Artificial Intelligence, 2021, 36, C-L44_1-12.	0.1	0