Hannu Tt Toivonen

List of Publications by Year
in descending order

86 papers	5,179 citations	304743 22 h-index	106344 65 g-index
92 all docs	92 docs citations	92 times ranked	3374 citing authors

#	Article	IF	Citations
1	Integrated interdisciplinary workflows for research on historical newspapers: Perspectives from humanities scholars, computer scientists, and librarians. Journal of the Association for Information Science and Technology, 2022, 73, 225-239.	2.9	14
2	Conceptual Representations for Computational Concept Creation. ACM Computing Surveys, 2020, 52, 1-33.	23.0	13
3	Computational creativity beyond machine learning. Physics of Life Reviews, 2020, 34-35, 52-53.	2.8	4
4	Computational generation of slogans. Natural Language Engineering, 2020, , 1-33.	2.5	7
5	Personal Research Assistant for Online Exploration of Historical News. Lecture Notes in Computer Science, 2020, , 481-485.	1.3	1
6	Towards transformational creation of novel songs. Connection Science, 2019, 31, 4-32.	3.0	5
7	Interactive exploration of heterogeneous biological networks with Biomine Explorer. Bioinformatics, 2019, 35, 5385-5388.	4.1	8
8	Computational Creativity Infrastructure for Online Software Composition: A Conceptual Blending Use Case. IBM Journal of Research and Development, 2019, , 1-1.	3.1	2
9	Data Musicalization. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-27.	4.3	3
10	Towards Data-Driven Generation of Visualizations for Automatically Generated News Articles. , 2018, , .		0
11	No Landslide for the Human Journalist - An Empirical Study of Computer-Generated Election News in Finland. IEEE Access, 2018, 6, 43356-43367.	4.2	12
12	Summarisation of weighted networks. Journal of Experimental and Theoretical Artificial Intelligence, 2017, 29, 1023-1052.	2.8	9
13	Finding and expressing news from structured data. , 2017, , .		6
14	Frequent Pattern. , 2017, , 524-529.		1
15	Data-Driven News Generation for Automated Journalism. , 2017, , .		44
16	Language-independent multi-document text summarization with document-specific word associations. , 2016, , .		5
17	Computational generation and dissection of lexical replacement humor. Natural Language Engineering, 2016, 22, 727-749.	2.5	11
18	DopeLearning. , 2016, , .		31

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19	LayerFolding. , 2016, , .		0
20	Data mining and machine learning in computational creativity. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2015, 5, 265-275.	6.8	31
21	Adaptive Heartbeat Modeling for Beat-to-Beat Heart Rate Measurement in Ballistocardiograms. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1945-1952.	6.3	94
22	Novel Query Suggestions. , 2014, , .		2
23	Discovering statistically non-redundant subgroups. Knowledge-Based Systems, 2014, 67, 315-327.	7.1	18
24	Document summarization based on word associations. , 2014, , .		19
25	The Use of Weighted Graphs for Large-Scale Genome Analysis. PLoS ONE, 2014, 9, e89618.	2.5	4
26	Contrasting Subgroup Discovery. Computer Journal, 2013, 56, 289-303.	2.4	7
27	Effective Pruning for the Discovery of Conditional Functional Dependencies. Computer Journal, 2013, 56, 378-392.	2.4	18
28	On Creative Uses of Word Associations. Advances in Intelligent Systems and Computing, 2013, , 17-24.	0.6	1
29	Named Entity Filtering Based on Concept Association Graphs. Research in Computing Science, 2013, 70, 33-43.	0.1	1
30	A model for mining relevant and non-redundant information. , 2012, , .		1
31	Lexical Creativity from Word Associations. , 2012, , .		6
32	Network Compression by Node and Edge Mergers. Lecture Notes in Computer Science, 2012, , 199-217.	1.3	6
33	Privacy Preservation by k-Anonymization of Weighted Social Networks. , 2012, , .		31
34	Unobtrusive online monitoring of sleep at home. , 2012, 2012, 3784-8.		68
35	Biomine: predicting links between biological entities using network models of heterogeneous databases. BMC Bioinformatics, 2012, 13, 119.	2.6	50
36	Review of BisoNet Abstraction Techniques. Lecture Notes in Computer Science, 2012, , 166-178.	1.3	5

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37	Finding Representative Nodes in Probabilistic Graphs. Lecture Notes in Computer Science, 2012, , 218-229.	1.3	6
38	Biomine: A Network-Structured Resource of Biological Entities for Link Prediction. Lecture Notes in Computer Science, 2012, , 364-378.	1.3	5
39	Sleep Musicalization: Automatic Music Composition from Sleep Measurements. Lecture Notes in Computer Science, 2012, , 392-403.	1.3	4
40	Semantic Subgroup Discovery and Cross-Context Linking for Microarray Data Analysis. Lecture Notes in Computer Science, 2012, , 379-389.	1.3	1
41	Patterns and Logic for Reasoning with Networks. Lecture Notes in Computer Science, 2012, , 122-143.	1.3	1
42	Discovery of Novel Term Associations in a Document Collection. Lecture Notes in Computer Science, 2012, , 91-103.	1.3	2
43	Compression of weighted graphs. , 2011, , .		85
44	SegMine workflows for semantic microarray data analysis in Orange4WS. BMC Bioinformatics, 2011, 12, 416.	2.6	20
45	Fast Discovery of Reliable Subnetworks. , 2010, , .		15
46	Predicting and preventing student failure &ndash; using the k-nearest neighbour method to predict student performance in an online course environment. International Journal of Learning Technology, 2010, 5, 356.	0.2	33
47	Network Simplification with Minimal Loss of Connectivity. , 2010, , .		29
48	Probabilistic Inductive Querying Using ProbLog. , 2010, , 229-262.		4
49	A Framework for Path-Oriented Network Simplification. Lecture Notes in Computer Science, 2010, , 220-231.	1.3	17
50	Fast Discovery of Reliable k-terminal Subgraphs. Lecture Notes in Computer Science, 2010, , 168-177.	1.3	6
51	Compressing probabilistic Prolog programs. Machine Learning, 2008, 70, 151-168.	5.4	23
52	Finding reliable subgraphs from large probabilistic graphs. Data Mining and Knowledge Discovery, 2008, 17, 3-23.	3.7	65
53	Fast computation of distance estimators. BMC Bioinformatics, 2007, 8, 89.	2.6	18
54	Constrained hidden Markov models for population-based haplotyping. BMC Bioinformatics, 2007, 8, S9.	2.6	9

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55	Probabilistic Explanation Based Learning. Lecture Notes in Computer Science, 2007, , 176-187.	1.3	18
56	Revising Probabilistic Prolog Programs. Lecture Notes in Computer Science, 2007, , 30-33.	1.3	1
57	TreeDT: Tree Pattern Mining for Gene Mapping. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 174-185.	3.0	21
58	A survey of data mining methods for linkage disequilibrium mapping. Human Genomics, 2006, 2, 336.	2.9	21
59	HaploRec: efficient and accurate large-scale reconstruction of haplotypes. BMC Bioinformatics, 2006, 7, 542.	2.6	42
60	An empirical comparison of case-control and trio based study designs in high throughput association mapping. Journal of Medical Genetics, 2005, 43, 617-624.	3.2	18
61	ContextPhone: A Prototyping Platform for Context-Aware Mobile Applications. IEEE Pervasive Computing, 2005, 4, 51-59.	1.3	350
62	Mining Non-Derivable Association Rules. , 2005, , .		16
63	Adaptive On-Device Location Recognition. Lecture Notes in Computer Science, 2004, , 287-304.	1.3	87
64	Statistical evaluation of the Predictive Toxicology Challenge 2000-2001. Bioinformatics, 2003, 19, 1183-1193.	4.1	121
65	Discovering all most specific sentences. ACM Transactions on Database Systems, 2003, 28, 140-174.	2.8	180
66	BAYESIAN ANALYSIS OF METAPOPULATION DATA. Ecology, 2002, 83, 2408-2415.	3.2	70
67	Holocene temperature changes in northern Fennoscandia reconstructed from chironomids using Bayesian modelling. Quaternary Science Reviews, 2002, 21, 1841-1860.	3.0	161
68	Association analysis for quantitative traits by data mining: QHPM. Annals of Human Genetics, 2002, 66, 419-429.	0.8	9
69	A Second-Generation Association Study of the 5q31 Cytokine Gene Cluster and the Interleukin-4 Receptor in Asthma. Genomics, 2001, 77, 35-42.	2.9	46
70	APPLYING BAYESIAN STATISTICS TO ORGANISM-BASED ENVIRONMENTAL RECONSTRUCTION. , 2001, 11, 618-630.		47
71	Mining Associations Between Genetic Markers, Phenotypes, and Covariates. Genetic Epidemiology, 2001, 21, S588-S593.	1.3	2
72	Discovery of Relational Association Rules. , 2001, , 189-212.		53

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73	A Bayesian multinomial Gaussian response model for organism-based environmental reconstruction. Journal of Paleolimnology, 2000, 24, 243-250.	1.6	61
74	Data Mining Applied to Linkage Disequilibrium Mapping. American Journal of Human Genetics, 2000, 67, 133-145.	6.2	114
75	Tane: An Efficient Algorithm for Discovering Functional and Approximate Dependencies. Computer Journal, 1999, 42, 100-111.	2.4	472
76	Interactive exploration of interesting findings in the Telecommunication Network Alarm Sequence Analyzer (TASA). Information and Software Technology, 1999, 41, 557-567.	4.4	19
77	Rule Discovery in Telecommunication Alarm Data. Journal of Network and Systems Management, 1999, 7, 395-423.	4.9	63
78	Discovery of frequent DATALOG patterns. Data Mining and Knowledge Discovery, 1999, 3, 7-36.	3.7	217
79	<title>Mining for similarities in aligned time series using wavelets</title>. , 1999, 3695, 150.		22
80	Learning, Mining, or Modeling? A Case Study from Paleoecology. Lecture Notes in Computer Science, 1998, , 12-24.	1.3	7
81	Data mining, hypergraph transversals, and machine learning (extended abstract). , 1997, , .		117
82	Discovery of Frequent Episodes in Event Sequences. Data Mining and Knowledge Discovery, 1997, 1, 259-289.	3.7	974
83	Levelwise Search and Borders of Theories in Knowledge Discovery. Data Mining and Knowledge Discovery, 1997, 1, 241-258.	3.7	706
84	Knowledge discovery from telecommunication network alarm databases. , 0, , .		64
85	Efficient discovery of functional and approximate dependencies using partitions. , 0, , .		71
86	Estimating the number of segments in time series data using permutation tests. , 0, , .		27