

# Sergei O Kuznetsov

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

2,689  
citations

218381

26  
h-index

197535

49  
g-index

92  
all docs

92  
docs citations

92  
times ranked

787  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing performance of algorithms for generating concept lattices. Journal of Experimental and Theoretical Artificial Intelligence, 2002, 14, 189-216.	1.8	387
2	Pattern Structures and Their Projections. Lecture Notes in Computer Science, 2001, , 129-142.	1.0	193
3	Formal concept analysis in knowledge processing: A survey on applications. Expert Systems With Applications, 2013, 40, 6538-6560.	4.4	182
4	Mining gene expression data with pattern structures in formal concept analysis. Information Sciences, 2011, 181, 1989-2001.	4.0	152
5	On stability of a formal concept. Annals of Mathematics and Artificial Intelligence, 2007, 49, 101-115.	0.9	131
6	Formal Concept Analysis in knowledge processing: A survey on models and techniques. Expert Systems With Applications, 2013, 40, 6601-6623.	4.4	119
7	Learning of Simple Conceptual Graphs from Positive and Negative Examples. Lecture Notes in Computer Science, 1999, , 384-391.	1.0	83
8	On Computing the Size of a Lattice and Related Decision Problems. Order, 2001, 18, 313-321.	0.3	63
9	On interestingness measures of formal concepts. Information Sciences, 2018, 442-443, 202-219.	4.0	61
10	Machine Learning and Formal Concept Analysis. Lecture Notes in Computer Science, 2004, , 287-312.	1.0	60
11	Fuzzy and rough formal concept analysis: a survey. International Journal of General Systems, 2014, 43, 105-134.	1.2	54
12	Triadic Formal Concept Analysis and triclustering: searching for optimal patterns. Machine Learning, 2015, 101, 271-302.	3.4	54
13	Complexity of learning in concept lattices from positive and negative examples. Discrete Applied Mathematics, 2004, 142, 111-125.	0.5	51
14	Knowledge representation and processing with formal concept analysis. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2013, 3, 200-215.	4.6	47
15	Reducing the Representation Complexity of Lattice-Based Taxonomies. Lecture Notes in Computer Science, 2007, , 241-254.	1.0	46
16	Machine Learning on the Basis of Formal Concept Analysis. Automation and Remote Control, 2001, 62, 1543-1564.	0.4	41
17	Some decision and counting problems of the Duquenneâ€Guigues basis of implications. Discrete Applied Mathematics, 2008, 156, 1994-2003.	0.5	39
18	Formalizing Hypotheses with Concepts. Lecture Notes in Computer Science, 2000, , 342-356.	1.0	37

#	ARTICLE	IF	CITATIONS
19	Learning Closed Sets of Labeled Graphs for Chemical Applications. Lecture Notes in Computer Science, 2005, , 190-208.	1.0	36
20	Hypotheses and Version Spaces. Lecture Notes in Computer Science, 2003, , 83-95.	1.0	35
21	Learning communicative actions of conflicting human agents. Journal of Experimental and Theoretical Artificial Intelligence, 2008, 20, 277-317.	1.8	32
22	Can triconcepts become triclusters?. International Journal of General Systems, 2013, 42, 572-593.	1.2	31
23	Biclustering meets triadic concept analysis. Annals of Mathematics and Artificial Intelligence, 2014, 70, 55-79.	0.9	31
24	Algorithms for the Construction of Concept Lattices and Their Diagram Graphs. Lecture Notes in Computer Science, 2001, , 289-300.	1.0	29
25	Discovering Structural Alerts for Mutagenicity Using Stable Emerging Molecular Patterns. Journal of Chemical Information and Modeling, 2015, 55, 925-940.	2.5	28
26	Pattern Structures for Analyzing Complex Data. Lecture Notes in Computer Science, 2009, , 33-44.	1.0	26
27	Concept-Based Biclustering for Internet Advertisement. , 2012, , .		25
28	Computing premises of a minimal cover of functional dependencies is intractable. Discrete Applied Mathematics, 2013, 161, 742-749.	0.5	25
29	Approximating Concept Stability. Lecture Notes in Computer Science, 2012, , 7-15.	1.0	24
30	Fitting Pattern Structures to Knowledge Discovery in Big Data. Lecture Notes in Computer Science, 2013, , 254-266.	1.0	24
31	Galois Connections in Data Analysis: Contributions from the Soviet Era and Modern Russian Research. Lecture Notes in Computer Science, 2005, , 196-225.	1.0	23
32	On mining complex sequential data by means of FCA and pattern structures. International Journal of General Systems, 2016, 45, 135-159.	1.2	23
33	Biclustering Numerical Data in Formal Concept Analysis. Lecture Notes in Computer Science, 2011, , 135-150.	1.0	23
34	Two FCA-Based Methods for Mining Gene Expression Data. Lecture Notes in Computer Science, 2009, , 251-266.	1.0	22
35	Parse Thicket Representation for Multi-sentence Search. Lecture Notes in Computer Science, 2013, , 153-172.	1.0	22
36	Stepwise construction of the Dedekind-MacNeille completion. Lecture Notes in Computer Science, 1998, , 295-302.	1.0	20

#	ARTICLE	IF	CITATIONS
37	From Triconcepts to Triclusters. Lecture Notes in Computer Science, 2011, , 257-264.	1.0	20
38	Concept-Based Data Mining with Scaled Labeled Graphs. Lecture Notes in Computer Science, 2004, , 94-108.	1.0	19
39	Pattern Structures and Concept Lattices for Data Mining and Knowledge Processing. Lecture Notes in Computer Science, 2015, , 227-231.	1.0	18
40	Is Concept Stability a Measure for Pattern Selection?. Procedia Computer Science, 2014, 31, 918-927.	1.2	17
41	Analyzing Conflicts with Concept-Based Learning. Lecture Notes in Computer Science, 2005, , 307-322.	1.0	17
42	Semi-automated knowledge discovery: identifying and profiling human trafficking. International Journal of General Systems, 2012, 41, 774-804.	1.2	15
43	Formal Concept Analysis: From Knowledge Discovery to Knowledge Processing. , 2020, , 411-445.		15
44	Scale Coarsening as Feature Selection. , 2008, , 217-228.		15
45	Counting Pseudo-intents and #P-completeness. Lecture Notes in Computer Science, 2006, , 306-308.	1.0	13
46	A Concept Discovery Approach for Fighting Human Trafficking and Forced Prostitution. Lecture Notes in Computer Science, 2011, , 201-214.	1.0	13
47	Scalable Estimates of Concept Stability. Lecture Notes in Computer Science, 2014, , 157-172.	1.0	12
48	Frequent Itemset Mining for Clustering Near Duplicate Web Documents. Lecture Notes in Computer Science, 2009, , 185-200.	1.0	11
49	Embedding tolerance relations in formal concept analysis. , 2010, , .		10
50	Dualization in lattices given by ordered sets of irreducibles. Theoretical Computer Science, 2017, 658, 316-326.	0.5	10
51	Reduced vs. standard dose native E. coli-asparaginase therapy in childhood acute lymphoblastic leukemia: long-term results of the randomized trial Moscowâ€“Berlin 2002. Journal of Cancer Research and Clinical Oncology, 2019, 145, 1001-1012.	1.2	10
52	Learning Common Outcomes of Communicative Actions Represented by Labeled Graphs. Lecture Notes in Computer Science, 2007, , 387-400.	1.0	10
53	Revisiting Pattern Structure Projections. Lecture Notes in Computer Science, 2015, , 200-215.	1.0	9
54	Bayesian Learning of Consumer Preferences for Residential Demand Response. IFAC-PapersOnLine, 2016, 49, 24-29.	0.5	8

#	ARTICLE	IF	CITATIONS
55	Detecting logical argumentation in text via communicative discourse tree. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-27.	1.8	8
56	NextPriorityConcept: A new and generic algorithm computing concepts from complex and heterogeneous data. Theoretical Computer Science, 2020, 845, 1-20.	0.5	8
57	A Web Mining Tool for Assistance with Creative Writing. Lecture Notes in Computer Science, 2013, , 828-831.	1.0	7
58	Relations between Proto-fuzzy Concepts, Crisply Generated Fuzzy Concepts, and Interval Pattern Structures. Fundamenta Informaticae, 2012, 115, 265-277.	0.3	6
59	Fast Generation of Best Interval Patterns for Nonmonotonic Constraints. Lecture Notes in Computer Science, 2015, , 157-172.	1.0	6
60	On Neural Network Architecture Based on Concept Lattices. Lecture Notes in Computer Science, 2017, , 653-663.	1.0	6
61	Scalable Knowledge Discovery in Complex Data with Pattern Structures. Lecture Notes in Computer Science, 2013, , 30-39.	1.0	6
62	Mining Convex Polygon Patterns with Formal Concept Analysis. , 2017, , .		5
63	Scenario Argument Structure vs Individual Claim Defeasibility: What Is More Important for Validity Assessment?. Lecture Notes in Computer Science, 2008, , 282-296.	1.0	5
64	Introducing the closure structure and the GDPM algorithm for mining and understanding a tabular dataset. International Journal of Approximate Reasoning, 2022, 145, 75-90.	1.9	5
65	Interactive error correction in implicative theories. International Journal of Approximate Reasoning, 2015, 63, 89-100.	1.9	4
66	Numerical Pattern Mining Through Compression. , 2019, , .		4
67	Text Integrity Assessment: Sentiment Profile vs Rhetoric Structure. Lecture Notes in Computer Science, 2015, , 126-139.	1.0	4
68	Attribute Exploration of Properties of Functions on Sets. Fundamenta Informaticae, 2012, 115, 377-394.	0.3	3
69	Efficient Mining of Subsample-Stable Graph Patterns. , 2017, , .		3
70	On pattern setups and pattern multistructures. International Journal of General Systems, 2020, 49, 785-818.	1.2	3
71	Pattern Structure Projections for Learning Discourse Structures. Lecture Notes in Computer Science, 2014, , 254-260.	1.0	3
72	Mint: MDL-based approach for Mining INTEResting Numerical Pattern Sets. Data Mining and Knowledge Discovery, 0, , 1.	2.4	3

#	ARTICLE	IF	CITATIONS
73	Machine Learning Methods in Character Recognition. Lecture Notes in Computer Science, 2011, , 322-329.	1.0	2
74	Decision Concept Lattice vs. Decision Trees and Random Forests. Lecture Notes in Computer Science, 2021, , 252-260.	1.0	2
75	On Links between Concept Lattices and Related Complexity Problems. Lecture Notes in Computer Science, 2010, , 138-144.	1.0	2
76	Computing Graph-Based Lattices from Smallest Projections. Lecture Notes in Computer Science, 2011, , 35-47.	1.0	2
77	Symbolic Galois Lattices with Pattern Structures. Lecture Notes in Computer Science, 2011, , 191-198.	1.0	2
78	Enumerating Minimal Hypotheses and Dualizing Monotone Boolean Functions on Lattices. Lecture Notes in Computer Science, 2011, , 42-48.	1.0	2
79	Data mining and soft computing. International Journal of General Systems, 2013, 42, 543-545.	1.2	1
80	Matchings and Decision Trees for Determining Optimal Therapy. Communications in Computer and Information Science, 2014, , 101-110.	0.4	1
81	On Coupling FCA and MDL in Pattern Mining. Lecture Notes in Computer Science, 2019, , 332-340.	1.0	1
82	Preface to special issue on concept lattice and their applications 2008. Annals of Mathematics and Artificial Intelligence, 2010, 59, 149-150.	0.9	0
83	Pattern Structures for Knowledge Processing and Information Retrieval. Lecture Notes in Networks and Systems, 2022, , 410-420.	0.5	0
84	On Overfitting of Classifiers Making a Lattice. Lecture Notes in Computer Science, 2017, , 184-197.	1.0	0
85	Are you a good borrower? Mining interpretable pattern structures in credit scoring. Asian Journal of Economics and Banking, 2020, 4, 67-85.	1.0	0