

# Lior Rokach

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153  
papers

5,540<sup>0</sup>  
citations

33  
h-index

71  
g-index

167  
ext. papers

7,338  
ext. citations

5.1  
avg, IF

6.81  
L-index

#	Paper	IF	Citations
153	Ensemble-based classifiers. <i>Artificial Intelligence Review</i> , <b>2010</b> , 33, 1-39	9.7	1451
152	Introduction to Recommender Systems Handbook <b>2011</b> , 1-35		604
151	Ensemble learning: A survey. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2018</b> , 8, e1249	6.9	403
150	Decision forest: Twenty years of research. <i>Information Fusion</i> , <b>2016</b> , 27, 111-125	16.7	158
149	Taxonomy for characterizing ensemble methods in classification tasks: A review and annotated bibliography. <i>Computational Statistics and Data Analysis</i> , <b>2009</b> , 53, 4046-4072	1.6	147
148	Link Prediction in Social Networks Using Computationally Efficient Topological Features <b>2011</b> ,		89
147	Improving malware detection by applying multi-inducer ensemble. <i>Computational Statistics and Data Analysis</i> , <b>2009</b> , 53, 1483-1494	1.6	89
146	Facebook single and cross domain data for recommendation systems. <i>User Modeling and User-Adapted Interaction</i> , <b>2013</b> , 23, 211-247	3.9	76
145	User identity verification via mouse dynamics. <i>Information Sciences</i> , <b>2012</b> , 201, 19-36	7.7	72
144	Detection of unknown computer worms based on behavioral classification of the host. <i>Computational Statistics and Data Analysis</i> , <b>2008</b> , 52, 4544-4566	1.6	72
143	Genetic algorithm-based feature set partitioning for classification problems. <i>Pattern Recognition</i> , <b>2008</b> , 41, 1676-1700	7.7	69
142	Fast-CBUS: A fast clustering-based undersampling method for addressing the class imbalance problem. <i>Neurocomputing</i> , <b>2017</b> , 243, 88-102	5.4	65
141	Ensemble methods for multi-label classification. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 7507-7523	7.8	65
140	Towards latent context-aware recommendation systems. <i>Knowledge-Based Systems</i> , <b>2016</b> , 104, 165-178	7.3	65
139	Novel active learning methods for enhanced PC malware detection in windows OS. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 5843-5857	7.8	64
138	Understanding topics and sentiment in an online cancer survivor community. <i>Journal of the National Cancer Institute Monographs</i> , <b>2013</b> , 2013, 195-8	4.8	59
137	Privacy-preserving data mining: A feature set partitioning approach. <i>Information Sciences</i> , <b>2010</b> , 180, 2696-2720	7.7	58

136	Efficient Multidimensional Suppression for K-Anonymity. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2010</b> , 22, 334-347	4.2	54
135	Data Mining for Improving the Quality of Manufacturing: A Feature Set Decomposition Approach. <i>Journal of Intelligent Manufacturing</i> , <b>2006</b> , 17, 285-299	6.7	53
134	Unknown malware detection using network traffic classification <b>2015</b> ,		50
133	Troika – An improved stacking schema for classification tasks. <i>Information Sciences</i> , <b>2009</b> , 179, 4097-4122	7.7	49
132	Entity Matching in Online Social Networks <b>2013</b> ,		47
131	Decomposition methodology for classification tasks: a meta decomposer framework. <i>Pattern Analysis and Applications</i> , <b>2006</b> , 9, 257-271	2.3	47
130	A practical tutorial on bagging and boosting based ensembles for machine learning: Algorithms, software tools, performance study, practical perspectives and opportunities. <i>Information Fusion</i> , <b>2020</b> , 64, 205-237	16.7	46
129	A survey of Clustering Algorithms <b>2009</b> , 269-298		45
128	Decision-tree instance-space decomposition with grouped gain-ratio. <i>Information Sciences</i> , <b>2007</b> , 177, 3592-3612	7.7	45
127	Detecting unknown computer worm activity via support vector machines and active learning. <i>Pattern Analysis and Applications</i> , <b>2012</b> , 15, 459-475	2.3	43
126	CaSTLe - Classification of single cells by transfer learning: Harnessing the power of publicly available single cell RNA sequencing experiments to annotate new experiments. <i>PLoS ONE</i> , <b>2018</b> , 13, e0205499	3.7	41
125	Decomposition Methodology for Knowledge Discovery and Data Mining. <i>Series in Machine Perception and Artificial Intelligence</i> , <b>2005</b> ,	0.3	40
124	Explainable decision forest: Transforming a decision forest into an interpretable tree. <i>Information Fusion</i> , <b>2020</b> , 61, 124-138	16.7	37
123	SFEM: Structural feature extraction methodology for the detection of malicious office documents using machine learning methods. <i>Expert Systems With Applications</i> , <b>2016</b> , 63, 324-343	7.8	33
122	Negation recognition in medical narrative reports. <i>Information Retrieval</i> , <b>2008</b> , 11, 499-538	1.8	33
121	Information Retrieval System for Medical Narrative Reports. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 217-228	0.9	33
120	A GIS-based decision support system for hotel room rate estimation and temporal price prediction: The hotel brokers\context. <i>Decision Support Systems</i> , <b>2013</b> , 54, 1119-1133	5.6	32
119	Collective-agreement-based pruning of ensembles. <i>Computational Statistics and Data Analysis</i> , <b>2009</b> , 53, 1015-1026	1.6	32

118	SELECTIVE VOTING GETTING MORE FOR LESS IN SENSOR FUSION. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2006</b> , 20, 329-350	1.1	31
117	Limiting disclosure of sensitive data in sequential releases of databases. <i>Information Sciences</i> , <b>2012</b> , 191, 98-127	7.7	30
116	Feature set decomposition for decision trees. <i>Intelligent Data Analysis</i> , <b>2005</b> , 9, 131-158	1.1	30
115	Mining manufacturing data using genetic algorithm-based feature set decomposition. <i>International Journal of Intelligent Systems Technologies and Applications</i> , <b>2008</b> , 4, 57	0.5	29
114	Recommender systems for product bundling. <i>Knowledge-Based Systems</i> , <b>2016</b> , 111, 193-206	7.3	27
113	Safety and efficacy of BNT162b mRNA Covid19 Vaccine in patients with chronic lymphocytic leukemia. <i>Haematologica</i> , <b>2021</b> ,	6.6	27
112	Improving Supervised Learning by Feature Decomposition. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 178-196	1.96	27
111	Unsupervised Commonsense Knowledge Enrichment for Domain-Specific Sentiment Analysis. <i>Cognitive Computation</i> , <b>2016</b> , 8, 467-477	4.4	26
110	Using the confusion matrix for improving ensemble classifiers <b>2010</b> ,		26
109	M-Score: A Misuseability Weight Measure. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2012</b> , 9, 414-428	3.9	25
108	The CASH algorithm-cost-sensitive attribute selection using histograms. <i>Information Sciences</i> , <b>2013</b> , 222, 247-268	7.7	25
107	Classifier evaluation under limited resources. <i>Pattern Recognition Letters</i> , <b>2006</b> , 27, 1619-1631	4.7	25
106	Recommender System from Personal Social Networks <b>2007</b> , 47-55		25
105	Continuous Verification Using Keystroke Dynamics <b>2010</b> ,		24
104	Random Projection Ensemble Classifiers. <i>Lecture Notes in Business Information Processing</i> , <b>2009</b> , 309-316	0.6	24
103	Space Decomposition in Data Mining: A Clustering Approach. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 24-31	0.9	23
102	Taxonomy of mobile users's security awareness. <i>Computers and Security</i> , <b>2018</b> , 73, 266-293	4.9	23
101	Matching entities across online social networks. <i>Neurocomputing</i> , <b>2016</b> , 210, 91-106	5.4	22

100	A Novel Approach to Mining Travel Sequences Using Collections of Geotagged Photos. <i>Lecture Notes in Geoinformation and Cartography</i> , <b>2010</b> , 163-182	0.3	21
99	ALDROID: efficient update of Android anti-virus software using designated active learning methods. <i>Knowledge and Information Systems</i> , <b>2016</b> , 49, 795-833	2.4	20
98	Detecting drug-drug interactions using artificial neural networks and classic graph similarity measures. <i>PLoS ONE</i> , <b>2019</b> , 14, e0219796	3.7	20
97	Introduction to Knowledge Discovery and Data Mining <b>2009</b> , 1-15		20
96	IMPROVING SUPERVISED LEARNING BY SAMPLE DECOMPOSITION. <i>International Journal of Computational Intelligence and Applications</i> , <b>2005</b> , 05, 37-53	1.2	19
95	Exploiting label dependencies for improved sample complexity. <i>Machine Learning</i> , <b>2013</b> , 91, 1-42	4	17
94	Reaching a joint decision with minimal elicitation of voter preferences. <i>Information Sciences</i> , <b>2014</b> , 278, 466-487	7.7	17
93	Initial Profile Generation in Recommender Systems Using Pairwise Comparison. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2012</b> , 42, 1854-1859		17
92	Who is going to win the next Association for the Advancement of Artificial Intelligence Fellowship Award? Evaluating researchers by mining bibliographic data. <i>Journal of the Association for Information Science and Technology</i> , <b>2011</b> , 62, 2456-2470		17
91	Ensemble methods for improving the performance of neighborhood-based collaborative filtering <b>2009</b> ,		17
90	Modeling Graph Database Schema. <i>IT Professional</i> , <b>2017</b> , 19, 34-43	1.9	16
89	A Direct Learning Approach for Neural Network Based Pre-Distortion for Coherent Nonlinear Optical Transmitter. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 3883-3896	4	15
88	Personal price aware multi-seller recommender system: Evidence from eBay. <i>Knowledge-Based Systems</i> , <b>2018</b> , 150, 14-26	7.3	14
87	Clustering Wi-Fi fingerprints for indoor/outdoor detection. <i>Wireless Networks</i> , <b>2019</b> , 25, 1341-1359	2.5	14
86	Mining manufacturing databases to discover the effect of operation sequence on the product quality. <i>Journal of Intelligent Manufacturing</i> , <b>2008</b> , 19, 313-325	6.7	14
85	A hybrid approach for improving unsupervised fault detection for robotic systems. <i>Expert Systems With Applications</i> , <b>2017</b> , 81, 372-383	7.8	13
84	Choosing the right word: Using bidirectional LSTM tagger for writing support systems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2019</b> , 84, 1-10	7.2	13
83	Utilizing transfer learning for in-domain collaborative filtering. <i>Knowledge-Based Systems</i> , <b>2016</b> , 107, 70-82	7.3	13

82	Fast and space-efficient shapelets-based time-series classification. <i>Intelligent Data Analysis</i> , <b>2015</b> , 19, 953-981	1.1	13
81	Predicting Refractive Surgery Outcome: Machine Learning Approach With Big Data. <i>Journal of Refractive Surgery</i> , <b>2017</b> , 33, 592-597	3.3	13
80	Anomaly detection for smartphone data streams. <i>Pervasive and Mobile Computing</i> , <b>2017</b> , 35, 83-107	3.5	12
79	Data mining opportunities in geosocial networks for improving road safety <b>2012</b> ,		12
78	A methodology for the design of a fuzzy data warehouse <b>2008</b> ,		12
77	Pessimistic cost-sensitive active learning of decision trees for profit maximizing targeting campaigns. <i>Data Mining and Knowledge Discovery</i> , <b>2008</b> , 17, 283-316	5.6	12
76	Explaining anomalies detected by autoencoders using Shapley Additive Explanations. <i>Expert Systems With Applications</i> , <b>2021</b> , 186, 115736	7.8	12
75	Source Model Selection for Deep Learning in the Time Series Domain. <i>IEEE Access</i> , <b>2020</b> , 8, 6190-6200	3.5	11
74	A Machine-Learning Model for Automatic Detection of Movement Compensations in Stroke Patients. <i>IEEE Transactions on Emerging Topics in Computing</i> , <b>2020</b> , 1-1	4.1	11
73	Reducing preference elicitation in group decision making. <i>Expert Systems With Applications</i> , <b>2016</b> , 61, 246-261	7.8	11
72	Wikiometrics: a Wikipedia based ranking system. <i>World Wide Web</i> , <b>2017</b> , 20, 1153-1177	2.9	10
71	Identifying Attack Propagation Patterns in Honeypots Using Markov Chains Modeling and Complex Networks Analysis <b>2016</b> ,		10
70	Volatile memory analysis using the MinHash method for efficient and secured detection of malware in private cloud. <i>Computers and Security</i> , <b>2019</b> , 87, 101590	4.9	10
69	Attribute-Driven Hidden Markov Model Trees for Intention Prediction. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2012</b> , 42, 1103-1119		10
68	Auto-Sign: an automatic signature generator for high-speed malware filtering devices. <i>Journal in Computer Virology</i> , <b>2010</b> , 6, 91-103		10
67	A METHODOLOGY FOR IMPROVING THE PERFORMANCE OF NON-RANKER FEATURE SELECTION FILTERS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2007</b> , 21, 809-830	1.1	10
66	CHANGE DETECTION IN CLASSIFICATION MODELS INDUCED FROM TIME SERIES DATA. <i>Series in Machine Perception and Artificial Intelligence</i> , <b>2004</b> , 101-125	0.3	9
65	Classification Trees <b>2009</b> , 149-174		9

64	Automatic discovery of the root causes for quality drift in high dimensionality manufacturing processes. <i>Journal of Intelligent Manufacturing</i> , <b>2012</b> , 23, 1915-1930	6.7	8
63	Methodology for Connecting Nouns to Their Modifying Adjectives. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 271-284	0.9	8
62	An ensemble method for top-N recommendations from the SVD. <i>Expert Systems With Applications</i> , <b>2016</b> , 64, 84-92	7.8	8
61	OPTICAL COHERENCE TOMOGRAPHY BIOMARKERS TO DISTINGUISH DIABETIC MACULAR EDEMA FROM PSEUDOPHAKIC CYSTOID MACULAR EDEMA USING MACHINE LEARNING ALGORITHMS. <i>Retina</i> , <b>2019</b> , 39, 2283-2291	3.6	7
60	Investigating confidence displays for top-N recommendations. <i>Journal of the Association for Information Science and Technology</i> , <b>2013</b> , 64, 2548-2563		7
59	Meta-learning for Selecting a Multi-label Classification Algorithm <b>2011</b> ,		7
58	ConfDTree: Improving Decision Trees Using Confidence Intervals <b>2012</b> ,		7
57	Antibody persistence 100 days following the second dose of BNT162b mRNA Covid19 vaccine in patients with chronic lymphocytic leukemia. <i>Leukemia</i> , <b>2021</b> , 35, 2727-2730	10.7	7
56	Preference Elicitation for Group Decisions Using the Borda Voting Rule. <i>Group Decision and Negotiation</i> , <b>2015</b> , 24, 1015-1033	2.5	6
55	User Authentication Based on Representative Users. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2012</b> , 42, 1669-1678		6
54	Leveraging the citation graph to recommend keywords <b>2013</b> ,		6
53	Highlighting items as means of adaptive assistance. <i>Behaviour and Information Technology</i> , <b>2013</b> , 32, 761-777	2.4	6
52	Using Machine Learning to Predict Rehabilitation Outcomes in Postacute Hip Fracture Patients. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2021</b> , 102, 386-394	2.8	6
51	Inferring contextual preferences using deep encoder-decoder learners. <i>New Review of Hypermedia and Multimedia</i> , <b>2018</b> , 24, 262-290	0.8	6
50	A Hybrid Approach for Automatic Model Recommendation <b>2018</b> ,		6
49	Sec-Lib: Protecting Scholarly Digital Libraries From Infected Papers Using Active Machine Learning Framework. <i>IEEE Access</i> , <b>2019</b> , 7, 110050-110073	3.5	5
48	Constraint learning based gradient boosting trees. <i>Expert Systems With Applications</i> , <b>2019</b> , 128, 287-300	7.8	5
47	Implicit dimension identification in user-generated text with LSTM networks. <i>Information Processing and Management</i> , <b>2019</b> , 56, 1880-1893	6.3	5

46	Comparison of state-of-the-art deep learning APIs for image multi-label classification using semantic metrics. <i>Expert Systems With Applications</i> , <b>2020</b> , 161, 113656	7.8	5
45	Ensemble Methods in Supervised Learning <b>2009</b> , 959-979		5
44	Leveraging metadata to recommend keywords for academic papers. <i>Journal of the Association for Information Science and Technology</i> , <b>2016</b> , 67, 3073-3091	2.7	4
43	Securing keystroke dynamics from replay attacks. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 85, 105798	7.5	4
42	ConfDTree: A Statistical Method for Improving Decision Trees. <i>Journal of Computer Science and Technology</i> , <b>2014</b> , 29, 392-407	1.7	4
41	OCCT: A One-Class Clustering Tree for Implementing One-to-Many Data Linkage. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2014</b> , 26, 682-697	4.2	4
40	Adapted Features and Instance Selection for Improving Co-training. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 81-100	0.9	4
39	Cyber security threats in the microbial genomics era: implications for public health. <i>Eurosurveillance</i> , <b>2020</b> , 25,	19.8	4
38	Analyzing movement predictability using human attributes and behavioral patterns. <i>Computers, Environment and Urban Systems</i> , <b>2021</b> , 87, 101596	5.9	4
37	A classifier to determine which Wikipedia biographies will be accepted. <i>Journal of the Association for Information Science and Technology</i> , <b>2015</b> , 66, 213-218	2.7	3
36	Survival Analysis of Automobile Components Using Mutually Exclusive Forests. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2014</b> , 44, 246-253	7.3	3
35	Ensembles of classifiers based on dimensionality reduction. <i>Intelligent Data Analysis</i> , <b>2017</b> , 21, 467-489	1.1	3
34	Local-shapelets for fast classification of spectrographic measurements. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 3150-3158	7.8	3
33	Applying the Publication Power Approach to Artificial Intelligence Journals. <i>Journal of the Association for Information Science and Technology</i> , <b>2012</b> , 63, 1270-1277		3
32	k-Anonymized Reducts <b>2010</b> ,		3
31	Establishing User Profiles in the MediaScout Recommender System <b>2007</b> ,		3
30	An evolutionary algorithm for constructing a decision forest: Combining the classification of disjoints decision trees. <i>International Journal of Intelligent Systems</i> , <b>2008</b> , 23, 455-482	8.4	3
29	Sniffing Bacteria with a Carbon-Dot Artificial Nose. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 112	19.5	3



28	Personal-discount sensitivity prediction for mobile coupon conversion optimization. <i>Journal of the Association for Information Science and Technology</i> , <b>2017</b> , 68, 1940-1952	2.7	3
27	Data Mining using Decomposition Methods <b>2009</b> , 981-998		3
26	Machine-learning-based circuit synthesis <b>2012</b> ,		2
25	Cascaded Data Mining Methods for Text Understanding, with medical case study <b>2006</b> ,		2
24	Product Bundle Identification using Semi-Supervised Learning <b>2020</b> ,		2
23	minMLST: machine learning for optimization of bacterial strain typing. <i>Bioinformatics</i> , <b>2021</b> , 37, 303-311	7.2	2
22	ICU Survival Prediction Incorporating Test-Time Augmentation to Improve the Accuracy of Ensemble-Based Models. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	2
21	Crime Linkage Based on Textual Hebrew Police Reports Utilizing Behavioral Patterns <b>2020</b> ,		1
20	Evolving context-aware recommender systems with users in mind. <i>Expert Systems With Applications</i> , <b>2022</b> , 189, 116042	7.8	1
19	Proactive Data Mining Using Decision Trees. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2014</b> , 21-33	0.4	1
18	Ensemble-based classifiers <b>2010</b> , 33, 1		1
17	Supervised Learning <b>2009</b> , 133-147		1
16	Machine learning and operation research based method for promotion optimization of products with no price elasticity history. <i>Electronic Commerce Research and Applications</i> , <b>2020</b> , 40, 100914	4.6	1
15	Keystroke dynamics obfuscation using key grouping. <i>Expert Systems With Applications</i> , <b>2020</b> , 143, 113091	7.8	1
14	Contextual security awareness: A context-based approach for assessing the security awareness of users. <i>Knowledge-Based Systems</i> , <b>2022</b> , 108709	7.3	1
13	Parsimonious citer-based measures: The artificial intelligence domain as a case study. <i>Journal of the Association for Information Science and Technology</i> , <b>2013</b> , 64, 1951-1959		0
12	Using Fuzzy Logic in Data Mining <b>2009</b> , 505-520		0
11	Cellular Immune Responses to BNT162b2 mRNA COVID-19 Vaccine in Patients with Chronic Lymphocytic Leukemia. <i>Blood</i> , <b>2021</b> , 138, 638-638	2.2	0

10	Supporting unknown number of users in keystroke dynamics models. <i>Knowledge-Based Systems</i> , <b>2021</b> , 221, 106982	7.3	o
9	A deep learning framework for predicting burglaries based on multiple contextual factors. <i>Expert Systems With Applications</i> , <b>2022</b> , 117042	7.8	o
8	Explainable machine learning for chronic lymphocytic leukemia treatment prediction using only inexpensive tests.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 145, 105490	7	o
7	FSCOAL Parallel simultaneous fuzzy co-clustering and learning. <i>International Journal of Intelligent Systems</i> , <b>2018</b> , 33, 1364-1380	8.4	
6	Data Mining for Improving Manufacturing Processes <b>2009</b> , 417-423		
5	Sensitivity Analysis of Proactive Data Mining. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2014</b> , 63-85	0.4	
4	Proactive Data Mining in the Real World: Case Studies. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2014</b> , 35-61	0.4	
3	Active-learning-based reconstruction of circuit model. <i>Applied Intelligence</i> , 1	4.9	
2	F-PENNI Forest path encoding for neural networks. <i>Information Fusion</i> , <b>2021</b> , 75, 186-196	16.7	
1	Integrated prediction intervals and specific value predictions for regression problems using neural networks. <i>Knowledge-Based Systems</i> , <b>2022</b> , 108685	7.3	