

Igor Kononenko

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.

70
papers

5,532
citations

22
h-index

70
g-index

70
ext. papers

6,691
ext. citations

3.1
avg, IF

6.17
L-index

#	Paper	IF	Citations
70	Theoretical and Empirical Analysis of ReliefF and RReliefF. <i>Machine Learning</i> , 2003 , 53, 23-69	4	1678
69	Estimating attributes: Analysis and extensions of RELIEF. <i>Lecture Notes in Computer Science</i> , 1994 , 171-182		896
68	Machine learning for medical diagnosis: history, state of the art and perspective. <i>Artificial Intelligence in Medicine</i> , 2001 , 23, 89-109	7.4	759
67	Overcoming the Myopia of Inductive Learning Algorithms with RELIEFF. <i>Applied Intelligence</i> , 1997 , 7, 39-55	4.9	430
66	Explaining prediction models and individual predictions with feature contributions. <i>Knowledge and Information Systems</i> , 2014 , 41, 647-665	2.4	325
65	INDUCTIVE AND BAYESIAN LEARNING IN MEDICAL DIAGNOSIS. <i>Applied Artificial Intelligence</i> , 1993 , 7, 317-337	2.3	185
64	Machine learning and data mining 2007 ,		153
63	Semi-naive bayesian classifier 1991 , 206-219		142
62	Analysing and improving the diagnosis of ischaemic heart disease with machine learning. <i>Artificial Intelligence in Medicine</i> , 1999 , 16, 25-50	7.4	134
61	Explaining Classifications For Individual Instances. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2008 , 20, 589-600	4.2	113
60	Information-based evaluation criterion for classifier's performance. <i>Machine Learning</i> , 1991 , 6, 67-80	4	96
59	Information-Based Evaluation Criterion for Classifier's Performance. <i>Machine Learning</i> , 1991 , 6, 67-80	4	57
58	Comparison of approaches for estimating reliability of individual regression predictions. <i>Data and Knowledge Engineering</i> , 2008 , 67, 504-516	1.5	46
57	Attribute selection for modelling. <i>Future Generation Computer Systems</i> , 1997 , 13, 181-195	7.5	45
56	Weighted archetypal analysis of the multi-element graph for query-focused multi-document summarization. <i>Expert Systems With Applications</i> , 2014 , 41, 535-543	7.8	44
55	Induction of decision trees and Bayesian classification applied to diagnosis of sport injuries. <i>Journal of Medical Systems</i> , 1997 , 21, 429-44	5.1	39
54	Estimation of individual prediction reliability using the local sensitivity analysis. <i>Applied Intelligence</i> , 2008 , 29, 187-203	4.9	37

53	An overview of advances in reliability estimation of individual predictions in machine learning. <i>Intelligent Data Analysis</i> , 2009 , 13, 385-401	1.1	35
52	Reliable Classifications with Machine Learning. <i>Lecture Notes in Computer Science</i> , 2002 , 219-231	0.9	32
51	Modeling basketball play-by-play data. <i>Expert Systems With Applications</i> , 2016 , 44, 58-66	7.8	28
50	Explanation and reliability of prediction models: the case of breast cancer recurrence. <i>Knowledge and Information Systems</i> , 2010 , 24, 305-324	2.4	28
49	Machine learning in prognosis of the femoral neck fracture recovery. <i>Artificial Intelligence in Medicine</i> , 1996 , 8, 431-51	7.4	24
48	Computerized segmentation of whole-body bone scintigrams and its use in automated diagnostics. <i>Computer Methods and Programs in Biomedicine</i> , 2005 , 80, 47-55	6.9	18
47	Weighted hierarchical archetypal analysis for multi-document summarization. <i>Computer Speech and Language</i> , 2016 , 37, 24-46	2.8	15
46	Comprehensible evaluation of prognostic factors and prediction of wound healing. <i>Artificial Intelligence in Medicine</i> , 2003 , 29, 25-38	7.4	15
45	A General Method for Visualizing and Explaining Black-Box Regression Models. <i>Lecture Notes in Computer Science</i> , 2011 , 21-30	0.9	15
44	Multi-document summarization via Archetypal Analysis of the content-graph joint model. <i>Knowledge and Information Systems</i> , 2014 , 41, 821-842	2.4	13
43	Modern parameterization and explanation techniques in diagnostic decision support system: a case study in diagnostics of coronary artery disease. <i>Artificial Intelligence in Medicine</i> , 2011 , 52, 77-90	7.4	12
42	Computerized segmentation and diagnostics of whole-body bone scintigrams. <i>Computerized Medical Imaging and Graphics</i> , 2007 , 31, 531-41	7.6	11
41	Prediction intervals in supervised learning for model evaluation and discrimination. <i>Applied Intelligence</i> , 2015 , 42, 790-804	4.9	10
40	Enhancing data stream predictions with reliability estimators and explanation. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 34, 178-192	7.2	10
39	Multiresolution Image Parametrization for Improving Texture Classification. <i>Eurasip Journal on Advances in Signal Processing</i> , 2008 , 2008, 1-13	1.9	10
38	Mining data from hemodynamic simulations for generating prediction and explanation models. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 248-54		9
37	Automatic selection of reliability estimates for individual regression predictions. <i>Knowledge Engineering Review</i> , 2010 , 25, 27-47	2.1	8
36	Towards symbolic mining of images with association rules: Preliminary results on textures. <i>Intelligent Data Analysis</i> , 2006 , 10, 379-393	1.1	7

35	Probabilistic first-order classification. <i>Lecture Notes in Computer Science</i> , 1997 , 235-242	0.9	5
34	Quality of classification explanations with PRBF. <i>Neurocomputing</i> , 2012 , 96, 37-46	5.4	4
33	Towards a Model Independent Method for Explaining Classification for Individual Instances. <i>Lecture Notes in Computer Science</i> , 2008 , 273-282	0.9	4
32	Efficiently Explaining Decisions of Probabilistic RBF Classification Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 169-179	0.9	4
31	Automatic Segmentation of Whole-Body Bone Scintigrams as a Preprocessing Step for Computer Assisted Diagnostics. <i>Lecture Notes in Computer Science</i> , 2005 , 363-372	0.9	4
30	Input dependent prediction intervals for supervised regression. <i>Intelligent Data Analysis</i> , 2014 , 18, 873-887		3
29	Learning and Explaining the Impact of Enterprises' Organizational Quality on their Economic Results 2012 , 228-248		3
28	Evaluating Reliability of Single Classifications of Neural Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 22-30	0.9	3
27	The General Explanation Method with NMR Spectroscopy Enables the Identification of Metabolite Profiles Specific for Normal and Tumor Cell Lines. <i>ChemBioChem</i> , 2018 , 19, 2066-2071	3.8	2
26	Mining data from hemodynamic simulations for generating prediction and explanation models 2010 ,		2
25	Machine learning applied to diagnosis of sport injuries. <i>Lecture Notes in Computer Science</i> , 1997 , 138-141	0.9	2
24	An application of Machine Learning in the diagnosis of ischaemic heart disease. <i>Lecture Notes in Computer Science</i> , 1997 , 461-464	0.9	2
23	Estimation of Regressor Reliability. <i>Journal of Intelligent Systems</i> , 2008 , 17,	1.5	2
22	Attribute-based learning. <i>AI Communications</i> , 1996 , 9, 27-32	0.8	2
21	Correcting Streaming Predictions of an Electricity Load Forecast System Using a Prediction Reliability Estimate. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 343-350		2
20	Evaluation of Prognostic Factors and Prediction of Chronic Wound Healing Rate by Machine Learning Tools. <i>Lecture Notes in Computer Science</i> , 2001 , 77-87	0.9	2
19	Frequent subgraph mining in oceanographic multi-level directed graphs. <i>International Journal of Geographical Information Science</i> , 2019 , 33, 1936-1959	4.1	1
18	Automatic Extractive Multi-document Summarization Based on Archetypal Analysis. <i>Signals and Communication Technology</i> , 2016 , 75-88	0.5	1

17	Web user profiles with time-decay and prototyping. <i>Applied Intelligence</i> , 2014 , 41, 1081-1096	4.9	1
16	Model Selection with Combining Valid and Optimal Prediction Intervals 2012 ,		1
15	Prognosing the Survival Time of Patients with Anaplastic Thyroid Carcinoma using Machine Learning 1997 , 115-129		1
14	Obtaining structural descriptions of building façades. <i>Computer Science and Information Systems</i> , 2016 , 13, 23-43	0.8	1
13	Automatic attribute construction for basketball modelling. <i>Knowledge and Information Systems</i> , 2020 , 62, 541-570	2.4	1
12	Reliability Estimates for Regression Predictions 320-338		0
11	Estimating Reliability for Assessing and Correcting Individual Streaming Predictions 2012 , 29-49		0
10	Pairwise saturations in inductive logic programming. <i>Artificial Intelligence Review</i> , 2017 , 47, 395-415	9.7	
9	Efficiently explaining the predictions of a probabilistic radial basis function classification network. <i>Intelligent Data Analysis</i> , 2013 , 17, 791-802	1.1	
8	Experiments with Machine Learning in the Prediction of Coronary Artery Disease Progression 1997 , 167-185		
7	Influence of Domain and Model Properties on the Reliability Estimates' Performance. <i>International Journal of Data Warehousing and Mining</i> , 2009 , 5, 58-76	1	
6	Automated Diagnostics of Coronary Artery Disease. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2012 , 91-112	0.3	
5	The Use of Prediction Reliability Estimates on Imbalanced Datasets. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2012 , 113-124	0.3	
4	Individual Prediction Reliability Estimates in Classification and Regression 2012 , 35-56		
3	The Use of Prediction Reliability Estimates on Imbalanced Datasets 2013 , 692-703		
2	Automated Diagnostics of Coronary Artery Disease 2013 , 1043-1063		
1	Explaining the Predictions of an Arbitrary Prediction Model: Feature Contributions and Quasi-nomograms. <i>Human-computer Interaction Series</i> , 2018 , 139-157	0.6	