Igor Kononenko

List of Publications by Year
in descending order

66 papers	8,292 citations	331670 21 h-index	168389 53 g-index
70 all docs	70 docs citations	70 times ranked	8340 citing authors

#	Article	IF	Citations
1	Automatic attribute construction for basketball modelling. Knowledge and Information Systems, 2020, 62, 541-570.	3.2	1
2	Frequent subgraph mining in oceanographic multi-level directed graphs. International Journal of Geographical Information Science, 2019, 33, 1936-1959.	4.8	2
3	Explaining the Predictions of an Arbitrary Prediction Model: Feature Contributions and Quasi-nomograms. Human-computer Interaction Series, 2018, , 139-157.	0.6	1
4	The General Explanation Method with NMR Spectroscopy Enables the Identification of Metabolite Profiles Specific for Normal and Tumor Cell Lines. ChemBioChem, 2018, 19, 2066-2071.	2.6	3
5	Pairwise saturations in inductive logic programming. Artificial Intelligence Review, 2017, 47, 395-415.	15.7	0
6	Weighted hierarchical archetypal analysis for multi-document summarization. Computer Speech and Language, 2016, 37, 24-46.	4.3	16
7	Automatic Extractive Multi-document Summarization Based on Archetypal Analysis. Signals and Communication Technology, 2016, , 75-88.	0.5	4
8	Modeling basketball play-by-play data. Expert Systems With Applications, 2016, 44, 58-66.	7.6	36
9	Obtaining structural descriptions of building faÃ§ades. Computer Science and Information Systems, 2016, 13, 23-43.	1.0	1
10	Prediction intervals in supervised learning for model evaluation and discrimination. Applied Intelligence, 2015, 42, 790-804.	5.3	10
11	Input dependent prediction intervals for supervised regression. Intelligent Data Analysis, 2014, 18, 873-887.	0.9	3
12	Weighted archetypal analysis of the multi-element graph for query-focused multi-document summarization. Expert Systems With Applications, 2014, 41, 535-543.	7.6	56
13	Multi-document summarization via Archetypal Analysis of the content-graph joint model. Knowledge and Information Systems, 2014, 41, 821-842.	3.2	19
14	Web user profiles with time-decay and prototyping. Applied Intelligence, 2014, 41, 1081-1096.	5.3	4
15	Enhancing data stream predictions with reliability estimators and explanation. Engineering Applications of Artificial Intelligence, 2014, 34, 178-192.	8.1	11
16	Explaining prediction models and individual predictions with feature contributions. Knowledge and Information Systems, 2014, 41, 647-665.	3.2	883
17	Efficiently explaining the predictions of a probabilistic radial basis function classification network. Intelligent Data Analysis, 2013, 17, 791-802.	0.9	0
18	The Use of Prediction Reliability Estimates on Imbalanced Datasets. , 2013, , 692-703.		0

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19	Automated Diagnostics of Coronary Artery Disease. , 2013, , 1043-1063.		0
20	Model Selection with Combining Valid and Optimal Prediction Intervals. , 2012, , .		1
21	Quality of classification explanations with PRBF. Neurocomputing, 2012, 96, 37-46.	5.9	5
22	Mining Data From Hemodynamic Simulations for Generating Prediction and Explanation Models. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 248-254.	3.2	12
23	Learning and Explaining the Impact of Enterprisesâ€™ Organizational Quality on their Economic Results. , 2012, , 228-248.		3
24	Automated Diagnostics of Coronary Artery Disease. Advances in Medical Technologies and Clinical Practice Book Series, 2012, , 91-112.	0.3	0
25	The Use of Prediction Reliability Estimates on Imbalanced Datasets. Advances in Medical Technologies and Clinical Practice Book Series, 2012, , 113-124.	0.3	0
26	Estimating Reliability for Assessing and Correcting Individual Streaming Predictions. , 2012, , 29-49.		2
27	Individual Prediction Reliability Estimates in Classification and Regression. , 2012, , 35-56.		1
28	Modern parameterization and explanation techniques in diagnostic decision support system: A case study in diagnostics of coronary artery disease. Artificial Intelligence in Medicine, 2011, 52, 77-90.	6.5	20
29	A General Method for Visualizing and Explaining Black-Box Regression Models. Lecture Notes in Computer Science, 2011, , 21-30.	1.3	21
30	Efficiently Explaining Decisions of Probabilistic RBF Classification Networks. Lecture Notes in Computer Science, 2011, , 169-179.	1.3	6
31	Correcting Streaming Predictions of an Electricity Load Forecast System Using a Prediction Reliability Estimate. Advances in Intelligent and Soft Computing, 2011, , 343-350.	0.2	3
32	Automatic selection of reliability estimates for individual regression predictions. Knowledge Engineering Review, 2010, 25, 27-47.	2.6	10
33	Explanation and reliability of prediction models: the case of breast cancer recurrence. Knowledge and Information Systems, 2010, 24, 305-324.	3.2	37
34	Mining data from hemodynamic simulations for generating prediction and explanation models. , 2010, , .		3
35	An overview of advances in reliability estimation of individual predictions in machine learning. Intelligent Data Analysis, 2009, 13, 385-401.	0.9	46
36	Influence of Domain and Model Properties on the Reliability Estimates' Performance. International Journal of Data Warehousing and Mining, 2009, 5, 58-76.	0.6	0

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37	Comparison of approaches for estimating reliability of individual regression predictions. Data and Knowledge Engineering, 2008, 67, 504-516.	3.4	54
38	Estimation of individual prediction reliability using the local sensitivity analysis. Applied Intelligence, 2008, 29, 187-203.	5.3	42
39	Estimation of Regressor Reliability. Journal of Intelligent Systems, 2008, 17, .	1.6	2
40	Explaining Classifications For Individual Instances. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 589-600.	5.7	173
41	Towards a Model Independent Method for Explaining Classification for Individual Instances. Lecture Notes in Computer Science, 2008, , 273-282.	1.3	4
42	Multiresolution Image Parametrization for Improving Texture Classification. Eurasip Journal on Advances in Signal Processing, 2008, 2008, 1-13.	1.7	10
43	Computerized segmentation and diagnostics of whole-body bone scintigrams. Computerized Medical Imaging and Graphics, 2007, 31, 531-541.	5.8	14
44	Machine learning and data mining. , 2007, , .		195
45	Towards symbolic mining of images with association rules: Preliminary results on textures. Intelligent Data Analysis, 2006, 10, 379-393.	0.9	7
46	Computerized segmentation of whole-body bone scintigrams and its use in automated diagnostics. Computer Methods and Programs in Biomedicine, 2005, 80, 47-55.	4.7	22
47	Automatic Segmentation of Whole-Body Bone Scintigrams as a Preprocessing Step for Computer Assisted Diagnostics. Lecture Notes in Computer Science, 2005, , 363-372.	1.3	4
48	Theoretical and Empirical Analysis of ReliefF and RReliefF. Machine Learning, 2003, 53, 23-69.	5.4	2,316
49	Comprehensible evaluation of prognostic factors and prediction of wound healing. Artificial Intelligence in Medicine, 2003, 29, 25-38.	6.5	20
50	Reliable Classifications with Machine Learning. Lecture Notes in Computer Science, 2002, , 219-231.	1.3	36
51	Machine learning for medical diagnosis: history, state of the art and perspective. Artificial Intelligence in Medicine, 2001, 23, 89-109.	6.5	1,089
52	Evaluation of Prognostic Factors and Prediction of Chronic Wound Healing Rate by Machine Learning Tools. Lecture Notes in Computer Science, 2001, , 77-87.	1.3	2
53	Analysing and improving the diagnosis of ischaemic heart disease with machine learning. Artificial Intelligence in Medicine, 1999, 16, 25-50.	6.5	163
54	Probabilistic first-order classification. Lecture Notes in Computer Science, 1997, , 235-242.	1.3	6

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55	Overcoming the Myopia of Inductive Learning Algorithms with RELIEFF. Applied Intelligence, 1997, 7, 39-55.	5.3	613
56	Induction of decision trees and Bayesian classification applied to diagnosis of sport injuries. Journal of Medical Systems, 1997, 21, 429-444.	3.6	48
57	Attribute selection for modelling. Future Generation Computer Systems, 1997, 13, 181-195.	7.5	61
58	Experiments with Machine Learning in the Prediction of Coronary Artery Disease Progression. , 1997, , 167-185.		0
59	Prognosing the Survival Time of Patients with Anaplastic Thyroid Carcinoma using Machine Learning. , 1997, , 115-129.		2
60	Attribute-based learning. AI Communications, 1996, 9, 27-32.	1.2	5
61	Machine learning in prognosis of the femoral neck fracture recovery. Artificial Intelligence in Medicine, 1996, 8, 431-451.	6.5	28
62	Estimating attributes: Analysis and extensions of RELIEF. Lecture Notes in Computer Science, 1994, , 171-182.	1.3	1,491
63	INDUCTIVE AND BAYESIAN LEARNING IN MEDICAL DIAGNOSIS. Applied Artificial Intelligence, 1993, 7, 317-337.	3.2	234
64	Information-based evaluation criterion for classifier's performance. Machine Learning, 1991, 6, 67-80.	5.4	113
65	Information-Based Evaluation Criterion for Classifier's Performance. Machine Learning, 1991, 6, 67-80.	5.4	100
66	Reliability Estimates for Regression Predictions. , 0, , 320-338.		2