

Cynthia Rudin

List of Publications by Year in Descending Order

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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.

46
papers

2,626
citations

19
h-index

51
g-index

55
ext. papers

4,206
ext. citations

6.9
avg, IF

7.09
L-index

#	Paper	IF	Citations
46	Interpretable machine learning: Fundamental principles and 10 grand challenges. <i>Statistics Surveys</i> , 2022 , 16,	1.7	34
45	A supervised machine learning semantic segmentation approach for detecting artifacts in plethysmography signals from wearables. <i>Physiological Measurement</i> , 2021 ,	2.9	3
44	Ethical Implementation of Artificial Intelligence to Select Embryos in In Vitro Fertilization 2021 ,		2
43	A holistic approach to interpretability in financial lending: Models, visualizations, and summary-explanations. <i>Decision Support Systems</i> , 2021 , 152, 113647	5.6	2
42	There Once Was a Really Bad Poet, It Was Automated but You Didn't Know It. <i>Transactions of the Association for Computational Linguistics</i> , 2021 , 9, 605-620	5.6	1
41	A case-based interpretable deep learning model for classification of mass lesions in digital mammography. <i>Nature Machine Intelligence</i> , 2021 , 3, 1061-1070	22.5	7
40	Exploring the cloud of variable importance for the set of all good models. <i>Nature Machine Intelligence</i> , 2020 , 2, 810-824	22.5	6
39	Concept whitening for interpretable image recognition. <i>Nature Machine Intelligence</i> , 2020 , 2, 772-782	22.5	35
38	AI reflections in 2019. <i>Nature Machine Intelligence</i> , 2020 , 2, 2-9	22.5	1
37	Stop explaining black box machine learning models for high stakes decisions and use interpretable models instead. <i>Nature Machine Intelligence</i> , 2019 , 1, 206-215	22.5	1215
36	The Secrets of Machine Learning: Ten Things You Wish You Had Known Earlier to Be More Effective at Data Analysis 2019 , 44-72		10
35	All Models are Wrong, but are Useful: Learning a Variable's Importance by Studying an Entire Class of Prediction Models Simultaneously. <i>Journal of Machine Learning Research</i> , 2019 , 20,	28.6	21
34	The Big Data Newsvendor: Practical Insights from Machine Learning. <i>Operations Research</i> , 2019 , 67, 90-108		109
33	Modeling recovery curves with application to prostatectomy. <i>Biostatistics</i> , 2019 , 20, 549-564	3.7	3
32	A Shared Vision for Machine Learning in Neuroscience. <i>Journal of Neuroscience</i> , 2018 , 38, 1601-1607	6.6	70
31	Optimized Scoring Systems: Toward Trust in Machine Learning for Healthcare and Criminal Justice. <i>Interfaces</i> , 2018 , 48, 449-466	0.7	29
30	Learning customized and optimized lists of rules with mathematical programming. <i>Mathematical Programming Computation</i> , 2018 , 10, 659-702	7.8	17

29	The World Health Organization Adult Attention-Deficit/Hyperactivity Disorder Self-Report Screening Scale for DSM-5. <i>JAMA Psychiatry</i> , 2017 , 74, 520-527	14.5	131
28	Association of an Electroencephalography-Based Risk Score With Seizure Probability in Hospitalized Patients. <i>JAMA Neurology</i> , 2017 , 74, 1419-1424	17.2	64
27	Interpretable classification models for recidivism prediction. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2017 , 180, 689-722	2.1	63
26	Optimized Risk Scores 2017 ,		19
25	Supersparse linear integer models for optimized medical scoring systems. <i>Machine Learning</i> , 2016 , 102, 349-391	4	97
24	Learning Classification Models of Cognitive Conditions from Subtle Behaviors in the Digital Clock Drawing Test. <i>Machine Learning</i> , 2016 , 102, 393-441	4	69
23	A Computational Model of Inhibition of HIV-1 by Interferon-Alpha. <i>PLoS ONE</i> , 2016 , 11, e0152316	3.7	8
22	Clinical Prediction Models for Sleep Apnea: The Importance of Medical History over Symptoms. <i>Journal of Clinical Sleep Medicine</i> , 2016 , 12, 161-8	3.1	44
21	Prediction uncertainty and optimal experimental design for learning dynamical systems. <i>Chaos</i> , 2016 , 26, 063110	3.3	6
20	TD-P-003: Using the Digital Clock Drawing Test and Machine Learning to Improve Accuracy of Cognitive Screening 2016 , 12, P153-P153		
19	O4-12-03: Using the Digital Clock Drawing Test and Machine Learning to Improve Accuracy of Cognitive Screening 2016 , 12, P363-P364		
18	Finding Patterns with a Rotten Core: Data Mining for Crime Series with Cores. <i>Big Data</i> , 2015 , 3, 3-21	3.1	15
17	Interpretable classifiers using rules and Bayesian analysis: Building a better stroke prediction model. <i>Annals of Applied Statistics</i> , 2015 , 9,	2.1	230
16	A Bayesian Approach to Learning Scoring Systems. <i>Big Data</i> , 2015 , 3, 267-76	3.1	7
15	Generalization bounds for learning with linear, polygonal, quadratic and conic side knowledge. <i>Machine Learning</i> , 2015 , 100, 183-216	4	1
14	Learning about meetings. <i>Data Mining and Knowledge Discovery</i> , 2014 , 28, 1134-1157	5.6	10
13	Analytics for Power Grid Distribution Reliability in New York City. <i>Interfaces</i> , 2014 , 44, 364-383	0.7	14
12	On combining machine learning with decision making. <i>Machine Learning</i> , 2014 , 97, 33-64	4	10

11	Approximating the crowd. <i>Data Mining and Knowledge Discovery</i> , 2014 , 28, 1189-1221	5.6	12
10	Modeling Weather Impact on a Secondary Electrical Grid. <i>Procedia Computer Science</i> , 2014 , 32, 631-638	1.6	1
9	Box drawings for learning with imbalanced data 2014 ,		13
8	Tire Changes, Fresh Air, and Yellow Flags: Challenges in Predictive Analytics for Professional Racing. <i>Big Data</i> , 2014 , 2, 97-112	3.1	5
7	Sequential event prediction. <i>Machine Learning</i> , 2013 , 93, 357-380	4	22
6	Growing a list. <i>Data Mining and Knowledge Discovery</i> , 2013 , 27, 372-395	5.6	7
5	Machine learning for the New York City power grid. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 328-45	13.3	132
4	How to reverse-engineer quality rankings. <i>Machine Learning</i> , 2012 , 88, 369-398	4	3
3	Estimation of system reliability using a semiparametric model 2011 ,		3
2	A process for predicting manhole events in Manhattan. <i>Machine Learning</i> , 2010 , 80, 1-31	4	31
1	In Pursuit of Interpretable, Fair and Accurate Machine Learning for Criminal Recidivism Prediction. <i>Journal of Quantitative Criminology</i> , 1	2.8	1