


Vladimir Vovk
Alexander Gammerman
Glenn Shafer

Algorithmic Learning in a Random World

Second Edition

 Springer

Algorithmic Learning In A Random World

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Algorithmic Learning in a Random World Vladimir Vovk, Alex Gammerman, Glenn Shafer, 2005-12-05 Algorithmic Learning in a Random World describes recent theoretical and experimental developments in building computable approximations to Kolmogorov's algorithmic notion of randomness. Based on these approximations, a new set of machine learning algorithms have been developed that can be used to make predictions and to estimate their confidence and credibility in high-dimensional spaces under the usual assumption that the data are independent and identically distributed. Another aim of this unique monograph is to outline some limits of predictions. The approach based on algorithmic theory of randomness allows for the proof of impossibility of prediction in certain situations. The book describes how several important machine learning problems such as density estimation in high-dimensional spaces cannot be solved if the only assumption is randomness.

Algorithmic Learning in a Random World Vladimir Vovk, Alexander Gammerman, Glenn Shafer, 2022-12-13 This book is about conformal prediction, an approach to prediction that originated in machine learning in the late 1990s. The main feature of conformal prediction is the principled treatment of the reliability of predictions. The prediction algorithms described, conformal predictors, are provably valid in the sense that they evaluate the reliability of their own predictions in a way that is neither over-pessimistic nor over-optimistic, the latter being especially dangerous. The approach is still flexible enough to incorporate most of the existing powerful methods of machine learning. The book covers both key conformal predictors and the mathematical analysis of their properties. Algorithmic Learning in a Random World contains, in addition to proofs of validity, results about the efficiency of conformal predictors. The only assumption required for validity is that of randomness; the prediction algorithm is presented with independent and identically distributed examples. In later chapters, even the assumption of randomness is significantly relaxed. Interesting results about efficiency are established both under randomness and under stronger assumptions. Since publication of the First Edition in 2005, conformal prediction has found numerous applications in medicine and industry and is becoming a popular machine learning technique. This Second Edition contains three new chapters. One is about conformal predictive distributions, which are more informative than the set predictions produced by standard conformal predictors. Another is about the efficiency of ways of testing the assumption of randomness based on conformal prediction. The third new chapter harnesses conformal testing procedures for protecting machine learning algorithms against changes in the distribution of the data. In addition, the existing chapters have been revised, updated, and expanded.

Algorithmic Learning in a Random World Vladimir Vovk, Alexander Gammerman, Glenn Shafer, 2005

The Importance of Being Learnable Khuong An Nguyen, Zhiyuan Luo, 2026-03-06 This volume honors Alexander Gammerman on the occasion of his 80th birthday. Prof. Gammerman is one of the leading figures in the area of AI uncertainty quantification; most notably, he co-invented the Conformal Prediction algorithm, widely used by researchers, industry practitioners, and government policymakers. He began his academic career as

a researcher at the Agrophysical Research Institute in St Petersburg followed by a lecturer position at Heriot Watt University in Edinburgh He joined Royal Holloway University of London in 1993 where he served as head of the Computer Science department for 10 years and founded the Centre for Reliable Machine Learning Prof Gammerman s career exemplifies the transformative impact of interdisciplinary research he has written over 250 research papers with nearly 12 000 citations and among his 9 books is the highly cited Algorithmic Learning in a Random World He founded the Kolmogorov Lecture series in 2003 and the COPA conference in 2012 and he has chaired many international events on Machine Learning and Bayesian methods He has also influenced future generations through his university teaching and his mentorship he was the lead supervisor for over 30 PhD students many of whom are now also at the forefront of AI research and applications From pioneering mathematical models of plant photoreceptors to advancing the formal treatment of uncertainty in artificial intelligence Alexander Gammerman s work is a rare confluence of analytical precision conceptual depth and visionary application The contributions in this volume recognize the breadth and depth of his intellectual influence and his long lasting impact as a researcher educator and mentor

Conformal Prediction for Reliable Machine Learning Vineeth Balasubramanian, Shen-Shyang Ho, Vladimir Vovk, 2014-04-23 The conformal predictions framework is a recent development in machine learning that can associate a reliable measure of confidence with a prediction in any real world pattern recognition application including risk sensitive applications such as medical diagnosis face recognition and financial risk prediction Conformal Predictions for Reliable Machine Learning Theory Adaptations and Applications captures the basic theory of the framework demonstrates how to apply it to real world problems and presents several adaptations including active learning change detection and anomaly detection As practitioners and researchers around the world apply and adapt the framework this edited volume brings together these bodies of work providing a springboard for further research as well as a handbook for application in real world problems Understand the theoretical foundations of this important framework that can provide a reliable measure of confidence with predictions in machine learning Be able to apply this framework to real world problems in different machine learning settings including classification regression and clustering Learn effective ways of adapting the framework to newer problem settings such as active learning model selection or change detection

Statistical Learning and Data Sciences Alexander Gammerman, Vladimir Vovk, Harris Papadopoulos, 2015-04-02 This book constitutes the refereed proceedings of the Third International Symposium on Statistical Learning and Data Sciences SLDS 2015 held in Egham Surrey UK April 2015 The 36 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 59 submissions The papers are organized in topical sections on statistical learning and its applications conformal prediction and its applications new frontiers in data analysis for nuclear fusion and geometric data analysis

Machine Learning and Data Mining in Pattern Recognition Petra Perner, 2007-07-16 Ever wondered what the state of the art is in machine learning and data mining Well now you can find out This book constitutes the refereed

proceedings of the 5th International Conference on Machine Learning and Data Mining in Pattern Recognition held in Leipzig Germany in July 2007 The 66 revised full papers presented together with 1 invited talk were carefully reviewed and selected from more than 250 submissions The papers are organized in topical sections *Algorithmic Learning Theory*, 1994

Augustin Cournot Jean-Philippe Touffut, 2007 If Augustin Cournot had still been alive he could have won the Nobel Memorial Prize in Economics on at least three different occasions exclaimed Nobel Laureate Robert Aumann during the 2005 Cournot Centre conference From his earliest publications Cournot broke from tradition with his predecessors in applying mathematical modelling to the social sphere Consequently he was the first to affirm the mathematization of social phenomena as an essential principle The fecundity of Cournot's works stems not only from this departure but also from a richness that irrigated the social sciences of the twentieth century In this collection the contributors including two Nobel laureates in economics highlight Cournot's profound innovativeness and continued relevance in the areas of industrial economics mathematical economics market competition game theory and epistemology of probability and statistics Each of the seven authors reminds us of the force and modernity of Cournot's thought as a mathematician historian of the sciences philosopher and not least as an economist Combining an epistemological perspective with a theoretical one this book will be of great interest to researchers and students in the fields of economics the history of economic thought and epistemology

Technometrics, 2005 **Symbolic and Quantitative Approaches to Reasoning and Uncertainty**, 2005

American Book Publishing Record, 2004 Algorithmic Learning Alan Hutchinson, 1994 Machine learning is a rapidly changing field within artificial intelligence as more algorithms are identified and a theory of which algorithm will suit which purpose emerges Artificial Learning provides a comprehensive introduction to all aspects of the subject and will be both an invaluable text for students and a reference for practitioners seeking an up to date review The Writers Directory, 2013

Algorithmic Learning Theory Setsuo Arikawa, 1990 **The British National Bibliography** Arthur James Wells, 2006

Proceedings of the Fourth Annual Workshop on Computational Learning Theory Workshop on Computational Learning Theory, 1991 **Action Selection Methods Using Reinforcement Learning** Mark Humphrys, 1997 Abstract The Action Selection problem is the problem of run time choice between conflicting and heterogeneous goals a central problem in the simulation of whole creatures as opposed to the solution of isolated uninterrupted tasks This thesis argues that Reinforcement Learning has been overlooked in the solution of the Action Selection problem Considering a decentralised model of mind with internal tension and competition between selfish behaviors this thesis introduces an algorithm called W learning whereby different parts of the mind modify their behavior based on whether or not they are succeeding in getting the body to execute their actions This thesis sets W learning in context among the different ways of exploiting Reinforcement Learning numbers for the purposes of Action Selection It is a Minimize the Worst Unhappiness strategy The different methods are tested and their strengths and weaknesses analysed in an artificial world **The Writers Directory 2008**

Michelle Kazensky,2007-06 Features bibliographical biographical and contact information for living authors worldwide who have at least one English publication Entries include name pseudonyms addresses citizenship birth date specialization career information and a bibliography **Mathematical Reviews** ,2006

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