Vladimir N. Vapnik

The Nature of Statistical Learning Theory

Springer

Nature Of Statistical Learning Theory

Cong Wang,David J. Hill

Nature Of Statistical Learning Theory:

<u>The Nature of Statistical Learning Theory</u> Vladimir Vapnik,2013-06-29 The aim of this book is to discuss the fundamental ideas which lie behind the statistical theory of learning and generalization It considers learning as a general problem of function estimation based on empirical data Omitting proofs and technical details the author concentrates on discussing the main results of learning theory and their connections to fundamental problems in statistics These include the setting of learning problems based on the model of minimizing the risk functional from empirical data a comprehensive analysis of the empirical risk minimization principle including necessary and sufficient conditions for its consistency non asymptotic bounds for the risk achieved using the empirical risk minimization principle principles for controlling the generalization ability of learning machines using small sample sizes based on these bounds the Support Vector methods that control the generalization ability when estimating function using small sample size The second edition of the book contains three new chapters devoted to further development of the learning theory and SVM techniques These include the theory of direct method of learning based on solving multidimensional integral equations for density conditional probability and conditional density estimation a new inductive principle of learning Written in a readable and concise style the book is intended for statisticians mathematicians physicists and computer scientists Vladimir N Vapnik is Technology Leader AT T Labs Research and Professor of London University He is one of the founders of **The Nature of Statistical Learning Theory** Vladimir N. Vapnik,2013-04-17 The aim of this book is to discuss the fundamental ideas which lie behind the statistical theory of learning and generalization It considers learning from the general point of view of function estimation based on empirical data Omitting proofs and technical details the author concentrates on discussing the main results of learning theory and their connections to fundamental problems in statistics These include the general setting of learning problems and the general model of minimizing the risk functional from empirical data a comprehensive analysis of the empirical risk minimization principle and shows how this allows for the construction of necessary and sufficient conditions for consistency non asymptotic bounds for the risk achieved using the empirical risk minimization principle principles for controlling the generalization ability of learning machines using small sample sizes introducing a new type of universal learning machine that controls the generalization ability *Statistical Learning Theory* Vladimir Naumovich Vapnik,1998 A comprehensive look at learning and generalization theory The statistical theory of learning and generalization concerns the problem of choosing desired functions on the basis of empirical data Highly applicable to a variety of computer science and robotics fields this book offers lucid coverage of the theory as a whole Presenting a method for determining the necessary and sufficient conditions for consistency of learning process the author covers function estimates from small data pools applying these estimations to real life problems and much more **Measuring Technology and Mechatronics Automation IV** Zhi Xiang Hou,2011-10-24 Selected peer reviewed papers from the Fourth International Conference on Measuring Technology

and Mechatronics Automation ICMTMA 2012 January 6 7 2012 Sanya China **Deterministic Learning Theory for Identification, Recognition, and Control** Cong Wang,David J. Hill,2018-10-03 Deterministic Learning Theory for Identification Recognition and Control presents a unified conceptual framework for knowledge acquisition representation and knowledge utilization in uncertain dynamic environments It provides systematic design approaches for identification recognition and control of linear uncertain systems Unlike many books currently available that focus on statistical principles this book stresses learning through closed loop neural control effective representation and recognition of temporal patterns in a deterministic way A Deterministic View of Learning in Dynamic Environments The authors begin with an introduction to the concepts of deterministic learning theory followed by a discussion of the persistent excitation property of RBF networks They describe the elements of deterministic learning and address dynamical pattern recognition and pattern based control processes The results are applicable to areas such as detection and isolation of oscillation faults ECG EEG pattern recognition robot learning and control and security analysis and control of power systems A New Model of Information Processing This book elucidates a learning theory which is developed using concepts and tools from the discipline of systems and control Fundamental knowledge about system dynamics is obtained from dynamical processes and is then utilized to achieve rapid recognition of dynamical patterns and pattern based closed loop control via the so called internal and dynamical matching of system dynamics This actually represents a new model of information processing i e a model of dynamical parallel distributed processing DPDP **Multiple Model Estimation Using SVM-based Learning** Yunqian Ma,2003 *Technometrics* ,2001 Algorithmic Learning Theory ,2004 *Computational Learning Theory* ,2001

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Machine Learning Ivan Bratko,Sašo Ožeroski,1999 The Sixteenth International Conference on Machine Learning ICML 99 was held June 27 30 1999 in Bled Slovenia It was co located with the Ninth International Workshop on Inductive Logic Programming ILP 99 These are the papers from this conference covering topics on empirical theoretical and cognitive modelling research in all areas of machine learning **Mathematical Methods for Knowledge Discovery and Data Mining** Giovanni Felici,Carlo Vercellis,2008 Annotation The field of data mining has seen a demand in recent years for the development of ideas and results in an integrated structure Mathematical Methods for Knowledge Discovery Bayesian methods data visualization kernel methods neural networks text speech and image recognition and many others This Premier Reference Source is an invaluable resource for scholars and practitioners in the fields of biomedicine engineering finance and insurance manufacturing marketing performance measurement and telecommunications **Computing Anticipatory Systems: CASYS 2001** D. M. Dubois,2002-09-05 These AIP Conference Proceedings contain the papers of the two invited

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