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The Nature of Statistical Learning Theory 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

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