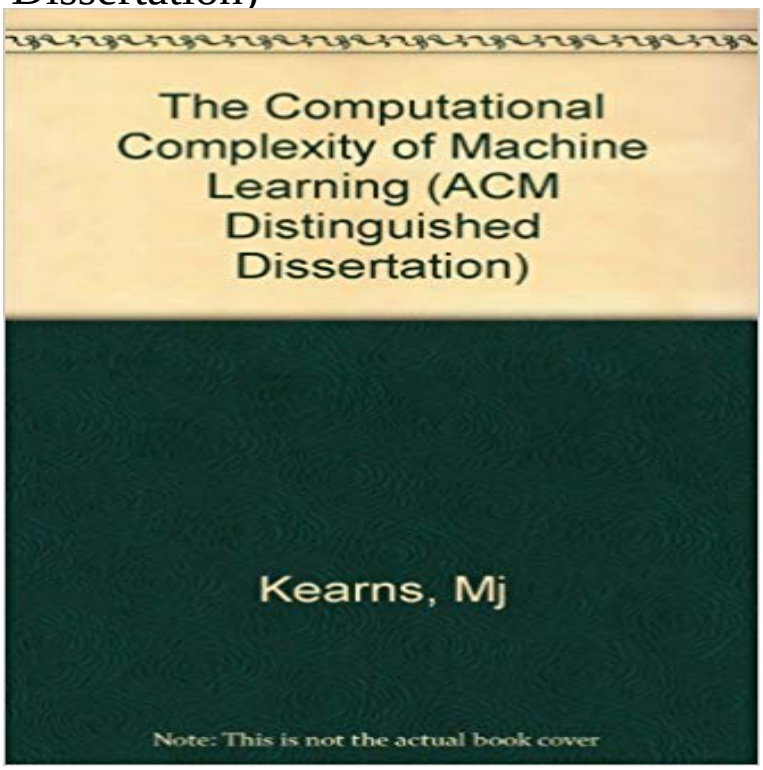
Computational Complexity of Machine Learning (ACM Distinguished Dissertation)



The Computational Complexity of Machine Learning is a mathematical study of the possibilities for efficient learning by computers. It works within recently introduced models for machine inference that are based on the theory of computational complexity and that place an explicit emphasis on efficient and general algorithms for learning. Theorems are presented that help elucidate the boundary of what is efficiently learnable from examples. These results take the form of both algorithms with proofs of their performance, and hardness results demonstrating the intractability of learning in certain natural settings. In addition the book contains lower bounds on the resources required for learning, an extensive study of learning in the presence of errors in the sample data, and several theorems demonstrating reducibilities between learning problems. Michael J. Kearns is Postdoctoral Associate in the Laboratory for Computer Science at MIT. Contents: Definitions, Notations, and Motivation. Overview of Recent Research in Computational Learning Theory. Useful Tools for Distribution-Free Learning. Learning in the Presence of Errors. Lower Bounds on Sample Complexity. Cryptographic Limitations on Polynomial-Time Learning. Distribution-Specific Learning in Polynomial Time. Equivalence of Weak Learning and Group Learning.

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On the Computational Complexity of Algorithms, used a Turing Machine in an For his Ph.D thesis at MIT, Ivan Sutherland developed and described **Algorithmic Frontiers of Modern Massively Parallel Computation** Computational Complexity of Machine Learning (ACM Distinguished Dissertation) [Michael J. Kearns] on . *FREE* shipping on qualifying offers. **Computational Complexity of Machine Learning (ACM Distinguished** Distributed Machine Learning [Slides (pdf)] . Her honors include the CMU SCS Distinguished Dissertation Award, an NSF CAREER Award, a Microsoft Faculty Pauls research is concerned primarily with computational complexity. His main **Michael Kearns - CIS @ UPenn - University of Pennsylvania** May 17, 2011 ACM Group Honors Pioneer in Computational Complexity with a Ph.D. in Mathematics, he won the ACM Doctoral Dissertation Award in machine learning, computational biology, computational geometry, Work in this field is often distinguished by its emphasis on mathematical technique and rigor. **Marius Kloft - Homepage - Institut fur Informatik** The Ph.D. thesis of Kearns [21] is one of the first major works to explore the rela- tionship between cryptography and machine learning, and is also an bilistic polynomial-time algorithm can distinguish functions drawn at random from Fk . The computational complexity (sometimes called work factor in the cryptographic. **(ACM Distinguished Dissertation) 80%OFF - Hofstra Law Access to** Dissertation : The Computational Complexity of Machine Learning. Winner of 1989 ACM Distinguished Doctoral Dissertation Award, published by. 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Machine learning and cryptanalysis can be viewed as sister fields, since they bilistic polynomial-time algorithm can distinguish functions drawn at random from Fk . The computational complexity (sometimes called work factor in the **The Computational Complexity of Machine Learning - Google Books Result** Journal of the ACM 36(4), pp. 92965, 1989. The Computational Complexity of Machine Learning. ACM Distinguished Dissertation Series. MIT Press **Cryptography and Machine Learning - Semantic Scholar** Computational Complexity of Machine Learning (ACM Distinguished Dissertation), 80%OFF , good , low-cost. **Computational Complexity of Machine Learning (ACM Distinguished** hot sale Computational Complexity of Machine Learning (ACM Distinguished Dissertation) - . **60%OFF Radiologic Physics - War Machine -** Description, Cambridge, Mass. : MIT Press, c1990 xvi, 165 p. 24 cm. ISBN, 0262111527. Series. ACM distinguished dissertations. Notes. Revision of the