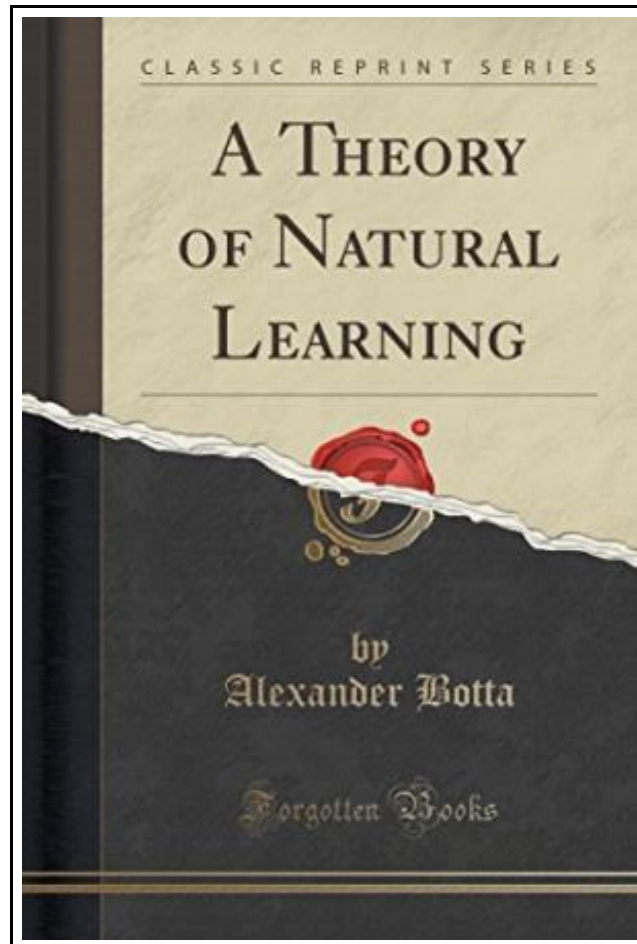# A Theory of Natural Learning (Classic Reprint) (Paperback)

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Reviews

This written book is great. I am quite late in start reading this one, but better then never. You will not really feel monotony at at any moment of your time (that's what catalogues are for about when you check with me).

(Abe Reichel DDS)

A THEORY OF NATURAL LEARNING (CLASSIC REPRINT) (PAPERBACK)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Theory of Natural Learning Unsupervised learning is based on capturing regularities in data. We formalize the vague notion of regularity using the concept of algorithmic information (Solomonoff, Chaitin, Koppel). We present a theory on how regularities are induced and accumulated. A generative model captures a regularity if it achieves compression. A basic regularity is a building block for hierarchical structures. We prove that a basic regularity may be identified as a local maximum in compressibility as a function of model complexity. Stepwise induction is a polynomial time approach to structures whose basic components have bound complexity. Agents engage in active learning. The regularities of their sensory-motor streams are similar to Piaget s schemes and constituents of an induced ontology. We illustrate these ideas on three microworlds. First are Moore automata. State representations are constructed incrementally from the results of tests performed when in that state, and from sequences of outputs perceived on the way to that state. The second world contains loosely coupled geometric objects. They are basic regularities identifiable by stepwise induction. In the third world agent has an elaborate eye and can move objects on a tiled surface. Statistical correlations between sets of stimuli are induced, then models are constructed to generate instances of new correlations from already known ones. Algorithmic information theory allows a unified perspective on many areas of learning research. We define analysis as the separation of the novelty in data from the already known. We present explanation based generalization as a well formalized instance of analysis and constructive induction is an ill defineded instance. We show EBG to specialize a theory through positive examples, and prove it a...

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