



Regret Analysis of Stochastic and Nonstochastic Multiarmed Bandit Problems (Paperback)

By Sebastian Bubeck, Nicolò Cesa-Bianchi

Now Publishers Inc, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. A multi-armed bandit problem - or, simply, a bandit problem - is a sequential allocation problem defined by a set of actions. At each time step, a unit resource is allocated to an action and some observable payoff is obtained. The goal is to maximize the total payoff obtained in a sequence of allocations. The name bandit refers to the colloquial term for a slot machine (a one-armed bandit in American slang). In a casino, a sequential allocation problem is obtained when the player is facing many slot machines at once (a multi-armed bandit), and must repeatedly choose where to insert the next coin. Multi-armed bandit problems are the most basic examples of sequential decision problems with an exploration-exploitation trade-off. This is the balance between staying with the option that gave highest payoffs in the past and exploring new options that might give higher payoffs in the future. Although the study of bandit problems dates back to the 1930s, exploration-exploitation trade-offs arise in several modern applications, such as ad placement, website optimization, and packet routing. Mathematically, a multi-armed bandit...



Reviews

This book is definitely not straightforward to get started on studying but extremely exciting to read. It is really simplistic but shocks in the 50 percent of the ebook. Once you begin to read the book, it is extremely difficult to leave it before concluding.
-- Ally Reichel

This publication is amazing. It is definitely basic but shocks in the fifty percent of your publication. You wont feel monotony at anytime of your own time (that's what catalogues are for concerning if you question me). -- **Prof. Kirk Cruickshank DDS**

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