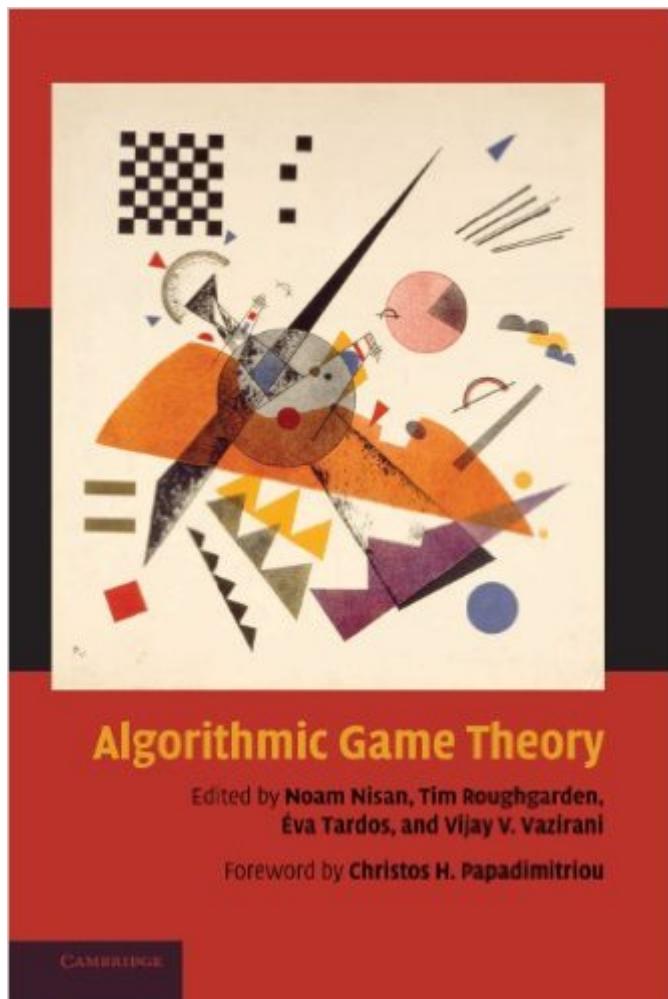**The book was found**

Algorithmic Game Theory

Synopsis

In the last few years game theory has had a substantial impact on computer science, especially on Internet- and e-commerce-related issues. More than 40 of the top researchers in this field have written chapters that go from the foundations to the state of the art. Basic chapters on algorithmic methods for equilibria, mechanism design and combinatorial auctions are followed by chapters on incentives and pricing, cost sharing, information markets and cryptography and security. Students, researchers and practitioners alike need to learn more about these fascinating theoretical developments and their widespread practical application.

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Customer Reviews

"The subject matter of Algorithmic Game Theory covers many of the hottest area of useful new game theory research, introducing deep new problems, techniques, and perspectives that demand the attention of economists as well as computer scientists. The all-star list of author-contributors makes this book the best place for newcomers to begin their studies." Paul Milgrom, Shirley and Leonard Ely Professor of Humanities and Sciences and Professor of Economics, Stanford University"Computer scientists never lose sight of the fact that a solution to an economic or social problem is not really feasible unless it is computationally tractable, and their toolkit has the potential to give new theoretical flesh to venerable economic intuitions such as the invisible hand, or the problematic nature of market socialism. Algorithmic Game Theory is a collection of essays by leading computer scientists and economists surveying the state of the art, and the open problems, in the many branches of this rapidly moving area. It is ideal for graduate students, and for

established researchers in either economics or computer science, who wish to learn about the concepts and issues shaping an increasingly important stream of interdisciplinary research." Professor Andrew McLennan, School of Economics, University of Queensland"The most exciting current research in game theory and its applications is being done in computer science. Algorithmic Game Theory effectively brings the reader to the frontiers of this research." Ehud Kalai, James J. O'Connor Distinguished Professor of Decision and Game Sciences, Kellogg School of Management, Northwestern University"I recommend Algorithmic Game Theory." Dave Levin, SIGACT News

More than 40 of the top researchers in this field have written chapters that go from the foundations to the state of the art. Basic chapters on algorithmic methods for equilibria, mechanism design and combinatorial auctions are followed by chapters on incentives and pricing, cost sharing, information markets and cryptography and security.

If you are looking for a gentle introduction to Game Theory, then look elsewhere. If, on the other hand, you need a fairly comprehensive overview of this complex subject, then this book offers a pretty good shotgun blast that is likely to address your specific areas of interest to some degree. As another reviewer pointed out, the theorems are not exhaustively proven (the authors seem to assume that you can fill-in the blanks they leave). The list of references for each chapter should be sufficient to help the more ignorant among us fill those gaps that are left. Readability is not excellent, but this is an otherwise fine addition to the library of any graduate level student or researcher in the field.

This book talks with several informations about the importance of an efficient calculation for the game theory. The applications of this theory are explicated with particular view about the modern developpement of economy. The proofs are no hard, founded on the method of finite differences, but it need to know the informatics for the calculation.

This is not a book for those who want to learn game theory. This is the book for those who have some knowledge of game theory and want to do computation of equilibria or are interested in CS-related topics.Personally, I'm an economic major student but interested in tech related economic topics. before I read this book, I wrote a theoretical model poping out of my mind, which of course didnt reflect the real world. this book gives me clear ideas what cs scientists are doing, then I can

incorporate into my economic models which I think it great and helpful.

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