Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science)

Jaroslav Ramík, Milan Vlach

Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science)

Jaroslav Ramík, Milan Vlach

Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) Jaroslav Ramík, Milan Vlach
Convexity of sets in linear spaces, and concavity and convexity of functions, lie at the root of beautiful theoretical results that are at the same time extremely useful in the analysis and solution of optimization problems, including problems of either single objective or multiple objectives. Not all of these results rely necessarily on convexity and concavity; some of the results can guarantee that each local optimum is also a global optimum, giving these methods broader application to a wider class of problems. Hence, the focus of the first part of the book is concerned with several types of generalized convex sets and generalized concave functions. In addition to their applicability to nonconvex optimization, these convex sets and generalized concave functions are used in the book's second part, where decision-making and optimization problems under uncertainty are investigated.
Uncertainty in the problem data often cannot be avoided when dealing with practical problems. Errors occur in real-world data for a host of reasons. However, over the last thirty years, the fuzzy set approach has proved to be useful in these situations. It is this approach to optimization under uncertainty that is extensively used and studied in the second part of this book. Typically, the membership functions of fuzzy sets involved in such problems are neither concave nor convex. They are, however, often quasiconcave or concave in some generalized sense. This opens possibilities for application of results on generalized concavity to fuzzy optimization. Despite this obvious relation, applying the interface of these two areas has been limited to date. It is hoped that the combination of ideas and results from the field of generalized concavity on the one hand and fuzzy optimization on the other hand outlined and discussed in *Generalized Concavity in Fuzzy Optimization and Decision Analysis* will be of interest to both communities. Our aim is to broaden the classes of problems that the combination of these two areas can satisfactorily address and solve.

Download and Read Free Online Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) Jaroslav Ramík, Milan Vlach

---

From reader reviews:

Tammy Ely:

Book is usually written, printed, or illustrated for everything. You can realize everything you want by a reserve. Book has a different type. As you may know that book is important matter to bring us around the world. Alongside that you can your reading ability was fluently. A e-book Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) will make you to always be smarter. You can feel far more confidence if you can know about everything. But some of you think in which open or reading the book make you bored. It's not make you fun. Why they may be thought like that? Have you in search of best book or appropriate book with you?

Alice Scales:

Do you certainly one of people who can't read pleasant if the sentence chained within the straightway, hold on guys this kind of aren't like that. This Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) book is readable by means of you who hate those perfect word style. You will find the facts here are arrange for enjoyable studying experience without leaving also decrease the knowledge that want to give to you. The writer regarding Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) content conveys thinking easily to understand by a lot of people. The printed and e-book are not different in the written content but it just different such as it. So , do you nonetheless thinking Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) is not loveable to be your top listing reading book?

Terry Klatt:

Reading a reserve can be one of a lot of activity that everyone in the world likes. Do you like reading book so. There are a lot of reasons why people enjoyed. First reading a e-book will give you a lot of new details. When you read a publication you will get new information simply because book is one of a number of ways to share the information as well as their idea. Second, examining a book will make you more imaginative. When you studying a book especially fiction book the author will bring you to imagine the story how the characters do it anything. Third, you can share your knowledge to others. When you read this Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science), you could tells your family, friends and soon about yours publication. Your knowledge can inspire others, make them reading a book.

Joseph Carter:

Reading a guide tends to be new life style in this particular era globalization. With looking at you can get a lot of information that may give you benefit in your life. Having book everyone in this world could share their idea. Books can also inspire a lot of people. A great deal of author can inspire all their reader with their

story or their experience. Not only the story that share in the guides. But also they write about advantage about something that you need illustration. How to get the good score toefl, or how to teach your kids, there are many kinds of book which exist now. The authors nowadays always try to improve their ability in writing, they also doing some study before they write for their book. One of them is this Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science).

Read Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) by Jaroslav Ramík, Milan Vlach for online ebook

Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) by Jaroslav Ramík, Milan Vlach Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) by Jaroslav Ramík, Milan Vlach books to read online.

Online Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) by Jaroslav Ramík, Milan Vlach ebook PDF download

Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) by Jaroslav Ramík, Milan Vlach Doc

Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) by Jaroslav Ramík, Milan Vlach Mobipocket

Generalized Concavity in Fuzzy Optimization and Decision Analysis (International Series in Operations Research & Management Science) by Jaroslav Ramík, Milan Vlach EPub