

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics)

By John N. Mordeson, Davender S. Malik, Terry D. Clark

Download now

Read Online

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark

Fuzzy social choice theory is useful for modeling the uncertainty and imprecision prevalent in social life yet it has been scarcely applied and studied in the social sciences. Filling this gap, **Application of Fuzzy Logic to Social Choice Theory** provides a comprehensive study of fuzzy social choice theory.

The book explains the concept of a fuzzy maximal subset of a set of alternatives, fuzzy choice functions, the factorization of a fuzzy preference relation into the "union" (conorm) of a strict fuzzy relation and an indifference operator, fuzzy non-Arrowian results, fuzzy versions of Arrow’s theorem, and Black’s median voter theorem for fuzzy preferences. It examines how unambiguous and exact choices are generated by fuzzy preferences and whether exact choices induced by fuzzy preferences satisfy certain plausible rationality relations. The authors also extend known Arrowian results involving fuzzy set theory to results involving intuitionistic fuzzy sets as well as the Gibbard–Satterthwaite theorem to the case of fuzzy weak preference relations. The final chapter discusses Georgescu’s degree of similarity of two fuzzy choice functions.

Download Application of Fuzzy Logic to Social Choice Theory ...pdf

Read Online Application of Fuzzy Logic to Social Choice Theo ...pdf

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics)

By John N. Mordeson, Davender S. Malik, Terry D. Clark

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark

Fuzzy social choice theory is useful for modeling the uncertainty and imprecision prevalent in social life yet it has been scarcely applied and studied in the social sciences. Filling this gap, **Application of Fuzzy Logic to Social Choice Theory** provides a comprehensive study of fuzzy social choice theory.

The book explains the concept of a fuzzy maximal subset of a set of alternatives, fuzzy choice functions, the factorization of a fuzzy preference relation into the "union" (conorm) of a strict fuzzy relation and an indifference operator, fuzzy non-Arrowian results, fuzzy versions of Arrow’s theorem, and Black’s median voter theorem for fuzzy preferences. It examines how unambiguous and exact choices are generated by fuzzy preferences and whether exact choices induced by fuzzy preferences satisfy certain plausible rationality relations. The authors also extend known Arrowian results involving fuzzy set theory to results involving intuitionistic fuzzy sets as well as the Gibbard–Satterthwaite theorem to the case of fuzzy weak preference relations. The final chapter discusses Georgescu’s degree of similarity of two fuzzy choice functions.

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark Bibliography

- Sales Rank: #5737626 in Books
- Published on: 2015-03-03
- Original language: English
- Number of items: 1
- Dimensions: 1.00" h x 6.30" w x 9.20" l, .0 pounds
- Binding: Hardcover
- 352 pages

Download Application of Fuzzy Logic to Social Choice Theory ...pdf

Read Online Application of Fuzzy Logic to Social Choice Theo ...pdf

Download and Read Free Online Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark

Editorial Review

About the Author

Dr. John N. Mordeson is a professor of mathematics, the John N. Mordeson Endowed Chair in Mathematics, and the director of the Center for Mathematics of Uncertainty at Creighton University. Dr. Mordeson has published 15 books and nearly 200 journal articles. He is an editorial board member of numerous journals and the current president of the Society for Mathematics of Uncertainty. His research interests include coding theory, fuzzy automata theory, fuzzy information retrieval, and fuzzy cluster analysis.

Dr. Davender S. Malik is a professor of mathematics at Creighton University. His research interests include algebra, fuzzy automata theory, and fuzzy logic. Dr. Malik has published 17 books and more than 50 papers.

Dr. Terry D. Clark is a professor of political science and the director of the graduate program in international relations at Creighton University. Dr. Clark has published four books and numerous journal articles. His research interests include fuzzy math spatial modeling, comparative politics, international relations, social network analysis, and intelligence analysis.

Users Review

From reader reviews:

Linnie Martinez:

The book Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) can give more knowledge and also the precise product information about everything you want. Why then must we leave a very important thing like a book Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics)? Several of you have a different opinion about book. But one aim in which book can give many data for us. It is absolutely proper. Right now, try to closer with your book. Knowledge or info that you take for that, you can give for each other; it is possible to share all of these. Book Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) has simple shape but the truth is know: it has great and large function for you. You can seem the enormous world by available and read a e-book. So it is very wonderful.

Lorraine Prinz:

Now a day folks who Living in the era just where everything reachable by match the internet and the resources inside it can be true or not need people to be aware of each info they get. How a lot more to be smart in having any information nowadays? Of course the answer is reading a book. Studying a book can help people out of this uncertainty Information particularly this Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) book as this book offers

you rich info and knowledge. Of course the information in this book hundred percent guarantees there is no doubt in it everbody knows.

Jonathan Carney:

Do you have something that you enjoy such as book? The book lovers usually prefer to pick book like comic, short story and the biggest an example may be novel. Now, why not seeking Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) that give your pleasure preference will be satisfied through reading this book. Reading routine all over the world can be said as the means for people to know world far better then how they react to the world. It can't be stated constantly that reading routine only for the geeky particular person but for all of you who wants to end up being success person. So , for every you who want to start examining as your good habit, you can pick Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) become your current starter.

James Martin:

What is your hobby? Have you heard this question when you got learners? We believe that that concern was given by teacher to the students. Many kinds of hobby, Everybody has different hobby. And you know that little person just like reading or as examining become their hobby. You must know that reading is very important in addition to book as to be the issue. Book is important thing to incorporate you knowledge, except your own personal teacher or lecturer. You discover good news or update regarding something by book. Different categories of books that can you choose to use be your object. One of them are these claims Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics).

Download and Read Online Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark #IB6GA3KFT2C

Read Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark for online ebook

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark 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 Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark books to read online.

Online Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark ebook PDF download

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark Doc

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark Mobipocket

Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark EPub

IB6GA3KFT2C: Application of Fuzzy Logic to Social Choice Theory (Chapman & Hall/CRC Monographs and Research Notes in Mathematics) By John N. Mordeson, Davender S. Malik, Terry D. Clark