

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series)

By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler

Download Read Online

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler

Provides a timely and important introduction to fuzzy cluster analysis, its methods and areas of application, systematically describing different fuzzy clustering techniques so the user may choose methods appropriate for his problem. It provides a very thorough overview of the subject and covers classification, image recognition, data analysis and rule generation. The application examples are highly relevant and illustrative, and the use of the techniques are justified and well thought-out.

Features include:

* Sections on inducing fuzzy if-then rules by fuzzy clustering and non-alternating optimization fuzzy clustering algorithms

* Discussion of solid fuzzy clustering techniques like the fuzzy c-means, the Gustafson-Kessel and the Gath-and-Geva algorithm for classification problems

* Focus on linear and shell clustering techniques used for detecting contours in image analysis

* Accompanying software and data sets pertaining to the examples presented, enabling the reader to learn through experimentation

* Examination of the difficulties involved in evaluating the results of fuzzy cluster analysis and of determining the number of clusters with analysis of global and local validity measures

This is one of the most comprehensive books on fuzzy clustering and will be welcomed by computer scientists, engineers and mathematicians in industry and research who are concerned with different methods, data analysis, pattern recognition or image processing. It will also give graduate students in computer science, mathematics or statistics a valuable overview.

Download Fuzzy Cluster Analysis: Methods for Classification ...pdf

Read Online Fuzzy Cluster Analysis: Methods for Classificati ...pdf

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series)

By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler

Provides a timely and important introduction to fuzzy cluster analysis, its methods and areas of application, systematically describing different fuzzy clustering techniques so the user may choose methods appropriate for his problem. It provides a very thorough overview of the subject and covers classification, image recognition, data analysis and rule generation. The application examples are highly relevant and illustrative, and the use of the techniques are justified and well thought-out.

Features include:

* Sections on inducing fuzzy if-then rules by fuzzy clustering and non-alternating optimization fuzzy clustering algorithms

* Discussion of solid fuzzy clustering techniques like the fuzzy c-means, the Gustafson-Kessel and the Gath-and-Geva algorithm for classification problems

* Focus on linear and shell clustering techniques used for detecting contours in image analysis

* Accompanying software and data sets pertaining to the examples presented, enabling the reader to learn through experimentation

* Examination of the difficulties involved in evaluating the results of fuzzy cluster analysis and of determining the number of clusters with analysis of global and local validity measures

This is one of the most comprehensive books on fuzzy clustering and will be welcomed by computer scientists, engineers and mathematicians in industry and research who are concerned with different methods, data analysis, pattern recognition or image processing. It will also give graduate students in computer science, mathematics or statistics a valuable overview.

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler Bibliography

- Sales Rank: #5377813 in Books
- Published on: 1999-07-09
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .84" w x 6.20" l, 1.23 pounds
- Binding: Hardcover
- 300 pages

Download Fuzzy Cluster Analysis: Methods for Classification ...pdf

Read Online Fuzzy Cluster Analysis: Methods for Classificati ...pdf

Download and Read Free Online Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler

Editorial Review

Language Notes
Text: English (translation)
Original Language: German

From the Back Cover
Fuzzy Cluster Analysis presents advanced and powerful fuzzy clustering techniques. This thorough and self-contained introduction to fuzzy clustering methods and applications covers classification, image recognition, data analysis and rule generation. Combining theoretical and practical perspectives, each method is analysed in detail and fully illustrated with examples. Features include:
* Sections on inducing fuzzy if-then rules by fuzzy clustering and non-alternating optimization fuzzy clustering algorithms
* Discussion of solid fuzzy clustering techniques like the fuzzy c-means, the Gustafson-Kessel and the Gath-and-Geva algorithm for classification problems
* Focus on linear and shell clustering techniques used for detecting contours in image analysis
* Accompanying software and data sets pertaining to the examples presented, enabling the reader to learn through experimentation
* Examination of the difficulties involved in evaluating the results of fuzzy cluster analysis and of determining the number of clusters with analysis of global and local validity measures
* Description of different fuzzy clustering techniques allowing the user to select the method most appropriate to a particular problem
Computer scientists, engineers and mathematicians in industry and research who are concerned with fuzzy clustering methods, data analysis, pattern recognition or image processing will find this a timely and accessible resource. Graduate students in computer science, mathematics or statistics will value this comprehensive overview of the applications of fuzzy methods. Download accompanying program and data sets from our website

Users Review

From reader reviews:

Bonita Murray:

Why don't make it to become your habit? Right now, try to prepare your time to do the important behave, like looking for your favorite reserve and reading a book. Beside you can solve your long lasting problem; you can add your knowledge by the e-book entitled Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series). Try to the actual book Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) as your good friend. It means that it can to become your friend when you sense alone and beside regarding course make you smarter than ever. Yeah, it is very fortuned for you. The book makes you a lot more confidence because you can know every little thing by the book. So , let me make new experience and also knowledge with this book.

Theodore Pritchard:

Have you spare time for the day? What do you do when you have considerably more or little spare time? Yep, you can choose the suitable activity regarding spend your time. Any person spent their very own spare time to take a stroll, shopping, or went to often the Mall. How about open or read a book allowed Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series)? Maybe it is being best activity for you. You know beside you can spend your time with the favorite's book, you can smarter than before. Do you agree with their opinion or you have additional opinion?

Maria Trussell:

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) can be one of your beginner books that are good idea. Many of us recommend that straight away because this book has good vocabulary which could increase your knowledge in vocab, easy to understand, bit entertaining but nonetheless delivering the information. The article author giving his/her effort to put every word into enjoyment arrangement in writing Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) but doesn't forget the main stage, giving the reader the hottest as well as based confirm resource details that maybe you can be among it. This great information may drawn you into new stage of crucial contemplating.

Kelly Mays:

Some people said that they feel bored when they reading a book. They are directly felt it when they get a half parts of the book. You can choose the book Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) to make your own reading is interesting. Your skill of reading proficiency is developing when you such as reading. Try to choose simple book to make you enjoy to see it and mingle the impression about book and looking at especially. It is to be initially opinion for you to like to open up a book and study it. Beside that the reserve Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) can to be a newly purchased friend when you're sense alone and confuse using what must you're doing of that time.

Download and Read Online Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler #V43XA1M2RKO

Read Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler for online ebook

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler 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 Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler books to read online.

Online Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler ebook PDF download

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler Doc

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler Mobipocket

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) By Frank Höppner, Frank Klawonn, Rudolf Kruse, Thomas Runkler EPub