



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

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

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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.

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Editorial Review

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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
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- * 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

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Margarita Toman:

This Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) are generally reliable for you who want to certainly be a successful person, why. The explanation of this Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) can be among the great books you must have is definitely giving you more than just simple reading food but feed an individual with information that perhaps will shock your earlier knowledge. This book is actually handy, you can bring it just about everywhere and whenever your conditions in e-book and printed kinds. Beside that this Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) forcing you to have an enormous of experience including rich vocabulary, giving you trial of critical thinking that we understand it useful in your day task. So , let's have it and enjoy reading.

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Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) can be one of your beginning books that are good idea. Many of us recommend that straight away because this guide has good vocabulary that can increase your knowledge in vocab, easy to understand, bit entertaining however delivering the information. The author giving his/her effort to put every word into satisfaction arrangement in writing Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) although doesn't forget the main point, giving the reader the hottest in addition to based confirm resource info that maybe you can be one of it. This great information can draw you into completely new stage of crucial pondering.

Janet Warren:

This Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) is great guide for you because the content that is full of information for you who all always deal with world and have to make decision every minute. That book reveal it data accurately using great coordinate word or we can claim no rambling sentences inside it. So if you are read it hurriedly you can have whole information in it. Doesn't mean it only gives you straight forward sentences but tough core information with attractive delivering sentences. Having Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) in your hand like having the world in your arm, info in it is not ridiculous just one. We can say that no publication that offer you world inside ten or fifteen tiny right but this guide already do that. So , this is certainly good reading book. Heya Mr. and Mrs. occupied do you still doubt that?

Danna Bullock:

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