

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

Language Notes

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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
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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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Linda Haag:

Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) can be one of your basic books that are good idea. We all recommend that straight away because this book has good vocabulary that can increase your knowledge in terminology, easy to understand, bit entertaining but nonetheless delivering the information. The copy writer giving his/her effort to get every word into delight arrangement in writing Fuzzy Cluster Analysis: Methods for Classification, Data Analysis and Image Recognition (Wiley IBM PC Series) although doesn't forget the main level, giving the reader the hottest and also based confirm resource details that maybe you can be certainly one of it. This great information can easily drawn you into fresh stage of crucial thinking.

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