

Data Clustering and Image Segmentation Through Genetic Algorithms: Emerging Research and Opportunities

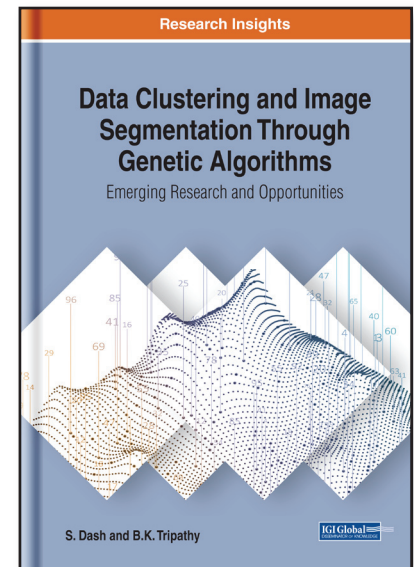
Part of the Advances in Data Mining and Database Management Book Series

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Description:

As computers are being used more and more to solve complex problems, the application of biology or natural evolution principles to the study and design of human systems helps provide efficient optimization algorithms.

Data Clustering and Image Segmentation Through Genetic Algorithms: Emerging Research and Opportunities is an essential reference source that discusses applications of bio-inspired algorithms in data mining, computer vision, image processing, and pattern recognition, as well as methods of designing competent algorithms based on decomposition principles. Featuring research on topics such as cluster analysis, metaheuristic optimization, and image processing, this book is ideally designed for IT professionals, computer engineers, researchers, academicians, and upper-level students seeking coverage on how to develop efficient clustering algorithms.



ISBN: 9781522563198

Release Date: August, 2018

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Pages: 160

Topics Covered:

- Cluster Analysis
- Evolutionary Algorithms
- Evolutionary Programming
- Image Processing
- Metaheuristic Optimization
- Natural Genetics
- Nature-Inspired Algorithms
- Partitioning Methods

Hardcover: \$165.00

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