Medical Applications of Intelligent Data Analysis: Research Advancements

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One major challenge facing modern medicine is to fulfill the promise and potential of the enormous increase in medical data sets of all kinds.

Medical Applications of Intelligent Data Analysis: Research Advancements explores the potential of utilizing this medical data through the implementation of developed models in practical applications. This premier reference source features chapters contributed by specialists in a variety of intelligent data analysis (IDA) fields related to medicine, health, and bioinformatics. All of these contributions are devoted to describing the practical medical applications of IDA and how the theory described in many other books can be implemented to improve medical care.

Topics Covered:
- Artificial intelligence in medical education
- Computational intelligence in bio- and clinical medicine
- Decision and regression trees
- Discovery techniques
- Graphical models
- Information retrieval
- Intelligent medical information systems
- Medical knowledge engineering
- Neural networks
- Swarm intelligence

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