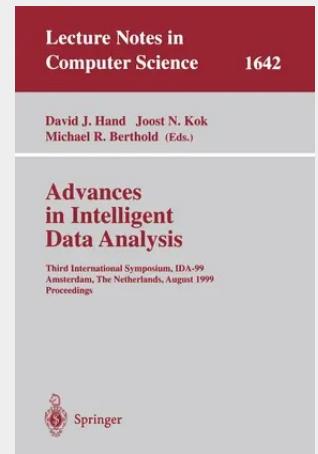


Advances in Intelligent Data Analysis

Third International Symposium, IDA-99 Amsterdam, The Netherlands, August 9-11, 1999
Proceedings

For many years the intersection of computing and data analysis contained me- based statistics packages and not much else. Recently, statisticians have embraced computing, computer scientists have started using statistical theories and methods, and researchers in all corners have invented algorithms to find structure in vast online datasets. Data analysts now have access to tools for exploratory data analysis, decision tree induction, causal induction, function approximation, constructing customized reference distributions, and visualization, and there are intelligent assistants to advise on matters of design and analysis. There are tools for traditional, relatively small samples, and also for enormous datasets. In all, the scope for probing data in new and penetrating ways has never been so exciting. The IDA-99 conference brings together a wide variety of researchers concerned with extracting knowledge from data, including people from statistics, machine learning, neural networks, computer science, pattern recognition, database management, and other areas. The strategies adopted by people from these areas are often different, and a synergy results if this is recognized. The IDA series of conferences is intended to stimulate interaction between these different areas, so that more powerful tools emerge for extracting knowledge from data and a better understanding is developed of the process of intelligent data analysis. The result is a conference that has a clear focus (one application area: intelligent data analysis) and a broad scope (many different methods and techniques).

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