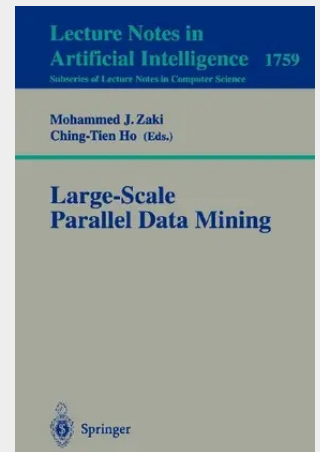


Large-Scale Parallel Data Mining

With the unprecedented rate at which data is being collected today in almost all fields of human endeavor, there is an emerging economic and scientific need to extract useful information from it. For example, many companies already have data-warehouses in the terabyte range (e.g., FedEx, Walmart). The World Wide Web has an estimated 800 million web-pages. Similarly, scientific data is reaching gigantic proportions (e.g., NASA space missions, Human Genome Project). High-performance, scalable, parallel, and distributed computing is crucial for ensuring system scalability and interactivity as datasets continue to grow in size and complexity. To address this need, we organized the workshop on Large-Scale Parallel KDD Systems, which was held in conjunction with the 5th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, on August 15th, 1999, San Diego, California. The goal of this workshop was to bring researchers and practitioners together in a setting where they could discuss the design, implementation, and deployment of large-scale parallel knowledge discovery (PKD) systems, which can manipulate data taken from very large enterprise or scientific databases, regardless of whether the data is located centrally or is globally distributed. Relevant topics identified for the workshop included: { How to develop a rapid-response, scalable, and parallel knowledge discovery system that supports global organizations with terabytes of data.

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