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Computer Science : Data Structures and Information Theory

Abello, J., Pardalos, P.M., Resende, M.G.C. (Eds.)

Handbook of Massive Data Sets

The proliferation of massive data sets brings with it a series of special computational challenges. This "data avalanche" arises in a wide range of scientific and commercial applications. With advances in computer and information technologies, many of these challenges are beginning to be addressed by diverse inter-disciplinary groups, that include computer scientists, mathematicians, statisticians and engineers, working in close cooperation with application domain experts. High profile applications include astrophysics, bio-technology, demographics, finance, geographical information systems, government, medicine, telecommunications, the environment and the internet. John R. Tucker of the Board on Mathematical Sciences has stated: "My interest in this problem (Massive Data Sets) is that I see it as the most important cross-cutting problem for the mathematical sciences in practical problem solving for the next decade, because it is so pervasive." The Handbook of Massive Data Sets is comprised of articles written by experts on selected topics that deal with some major aspect of massive data sets. It contains chapters on information retrieval both in the internet and in the traditional sense, web crawlers, massive graphs, string processing, data compression, clustering methods, wavelets, optimization, external memory algorithms and data structures, the US national cluster project, high performance computing, data warehouses, data cubes, semi-structured data, data squashing, data quality, billing in the large, fraud detection, and data processing in astrophysics, air pollution, biomolecular data, earth observation and the environment.

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