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A Review Of Big Data And Its Current Research Directions

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Abstract

In recent years, advances in Web technology and the proliferation of sensors and mobile devices connected to the Internet have resulted in the generation of immense data sets available on the Web that need to be processed and stored. At present scenario, companies are starting to realize the importance of using more data in order to support the decision for their strategies. Big Data has become a business priority for companies in the globally integrated economy. Big data is a collection of massive and complex data sets that include the huge quantities of data, social media analytics, data management capabilities, real-time data. Big Data analytics is the process of examining large amounts of data. Technology trends for Big Data embrace open source software, commodity servers, and massively parallel distributed processing platforms. There are enormous opportunities for research in the Big Data field.

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1. Introduction:

We are in the midst of a "Big Data" revolution. Innovations in technology and greater affordability of digital devices have presided over today's Age of Big Data, an umbrella term for the explosion in the quantity and diversity of high-frequency digital data. Big Data is the new experience curve in the new economy driven by data with high volume, velocity, variety, and veracity. They come from various sources that include the Internet, mobile devices, social media, geospatial devices, sensors, and other machine-generated data. Unlocking the value of Big Data allows businesses to better sense and respond to the environment, and is becoming a key to creating competitive advantages in a complex and rapidly changing market. Traditional data processing and analysis of structured data using RDBMS and data warehousing, no longer satisfy the challenges of Big Data. Technology trends for Big Data embrace open source software, commodity servers, and massively parallel-distributed processing platforms [1].