Abstract

Big Data refers to the data or sets of records that are too large in volume to be operated using
the existing database management tools and techniques. They are produced in many important applications, such as search engines, business informatics, social networks, social media, genomics, meteorology, and weather forecast. Big data presents a big challenge for database and data investigative research. The main objective of this paper is to give a brief introduction of Big Data, its architecture, characteristics and challenges.

**References**

- Wei Fan, Albert Bifet. Mining big data: current status, and forecast to the future, ACM SIGKDD Explorations Newsletter, Volume 14 Issue 2, December 2012
- Stephen Kaisler ; Frank Armour ; J. Alberto Espinosa ; William Money. Big Data: Issues and Challenges Moving Forward, 46th Hawaii International Conference on System Sciences (HICSS), 2013, ISSN :1530-1605
- Xindong Wu, Xingquan Zhu, Gong-Qing Wu, Wei Ding, Data Mining with Big Data, IEEE Transactions On Knowledge And Data Engineering, Vol. 26, No. 1, January 2014

**Index Terms**

Computer Science

Database

**Keywords**

Acquisition  Modeling  Mining  Static Data  Dynamic Data.