Big Data Analytics and Decision Quality:

The Mediating Role of Organizational Learning

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Abstract

With the advances in communication technologies and the high amount of data generated, collected, and stored, it becomes crucial to manage the quality of this data deluge in an efficient and cost-effective way. The storage, processing, privacy and analytics are the main keys challenging aspects of Big Data.

However, the huge Internet platform that struggled to manage billions of bytes of real-time data effectively invented business big data. Telecom companies have had access to many data for a long time because of the large number of consumers connecting to their networks and services every day.

That require quality evaluation and monitoring. The Big Data community as an essential facet of its maturity has recognized quality. Yet, it is a crucial practice that should be implemented at the earlier stages of its lifecycle and progressively applied across the other key processes. The earlier we incorporate quality the full benefit we can get from insights. In this paper, we first identify the

Key challenges that necessitates quality evaluation. We then survey, classify and discuss the most recent work on Big Data management. Consequently, we propose an across-the-board quality management framework describing the key quality evaluation practices to be conducted

through the different Big Data stages. The framework can be used to leverage the quality management and to provide a roadmap for Data scientists to better understand quality practices and highlight the importance of managing the quality. We finally, conclude the paper and point to some future research directions on quality of Big Data.

We used big data analytics tools to analyze the effect of big date characteristics on decision quality