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Big Data Analytics for Risk Factor Surveillance

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Conflictos de interés: Los autores de daran no tener conflictos de interés alguno.

Abstract

Background: Risk factor surveillance is a con nuous data collection, analysis, and dissemina on activity. Information technology plays an important role in building the surveillance system and a big data approach has become a hot topic. Bigdata analy cosare the advanced methods to derive insight and knowledge from the bigdata of high volume, speed and variety, such as text mining, natural language processing, and articial intelligence. They can handle a large amount of untraditional and unstructured data and thus provide innovative ways for conducing the risk factor surveillance. Purpose: The purpose of this study is to explore the possible application of current big data analytics in the risk factor surveillance.

Study/Interven on Design: Literature review

Methods This study examined the definion, feature, and present use of current big data analyos and then linked them with the risk factor surveillance. Results: Current big data analyos were analysed including text analyos (sen ment analyos and social data analyos are part of it), web analyos, sensor analyos, geospapa all analyos, video analyos, and audio analyos. The text analyos analyses free text data, so it allows exicitly collecting and analysing information on from internet. Web analyos provides a way to look at web surfing behaviours. Geospapal analyos facilitates location analysis. Sensor analyos makes it possible to use self-tracking devices and environment monitors in surveys. Video analyos and audio analyos may allow us to use new methods to conduct surveys.

Conclusion: Big data analy cs can be applied to the risk factor surveillance. They provide new data sources and innova ve ways to conduct surveys.

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