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Big data & wireless telecommunication: Challenges and prospects

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The growing undertaking in wireless processes to provide services, such as long-range communications, that are difficult to implement with the use of wires, has led to the current mobile technology revolution. The term 'wireless' is frequently used in the telecommunication industry to refer to telecommunication structures, such as radio transmitters and receivers, remote controls, mobile telephony, cloud computing, big data transfer, etc., which use some form of energy to transmit information without the use of wires. As wireless technologies continue to grow and big data services surge beyond the perimeter of networks' processing power, this mobile technology revolution will endure bringing dramatic and notable changes to the global system. This revolution gained momentum over the past decade and will persist to impact numerous aspects of people's daily lives and the way they conduct business. Although this revolution provides vital data to assist businesses and exert great influence on communication between business owners and their customers, it will bring about both challenges and opportunities in a variety of ways while embracing the big data epoch. Furthermore, the omnipresent and exponentially increasing big data traffic nowadays presents imminent challenges to the wireless system stratagem, such as band efficiency, computing capabilities, and mobile front-haul vs. backhaul link capacity, and how they address the growing challenge of helping transport today's massive mobile traffic loads. This paper surveys topics of providing amenities via wireless technologies and discusses the pros and cons of that technology, big data transfers along with changes in business tactics, asset risks, limitations in mobile devices, mobile access to databases, networking problems, infrastructure constraints and security concerns.

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Smart phones and big data analysis

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Smart phones change the world today. People forget the basic qualities of just saying a "Hi" or wishing a neighbor in the public but instead they are busy tapping on to their phones. This technology changes the complete idea of what we think and how we interact with each other. Also it provides new ways to store, retrieve and analyze massive amount of information generated. Most of the folks travelling today have their heads completely buried in their smart phones as they access information over the internet, read company documents, check emails or simply play games. The same scenario could be observed even in restaurants, park, malls and everywhere. Hence all these activities require massive amounts of data that needs to be stored and can be used for big data analysis. All the texts, all searches, all phone calls, all emails, pictures or videos you upload or shared are stored. So in each smart phone user will generate massive data each year. That is really BIG data. All this data has to be stored somewhere, means the storage industry is in a race to provide higher density of data storage devices at lower costs. But these types of data will be of good use. For example, people affected by what type of disease in which area, etc., could be predicted and steps could be taken to prevent them. This presentation focuses on some real time examples for demonstrating the Smart Phones with Big Data Analysis.

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