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## Big Data: Seizing Opportunities, Preserving Values

By Executive Office of the President

Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Since the first censuses were taken and crop yields recorded in ancient times, data collection and analysis have been essential to improving the functioning of society. Foundational work in calculus, probability theory, and statistics in the 17th and 18th centuries provided an array of new tools used by scientists to more precisely predict the movements of the sun and stars and determine population-wide rates of crime, marriage, and suicide. These tools often led to stunning advances. In the 1800s, Dr. John Snow used early modern data science to map cholera clusters in London. By tracing to a contaminated public well a disease that was widely thought to be caused by miasmatic air, Snow helped lay the foundation for the germ theory of disease. Gleaning insights from data to boost economic activity also took hold in American industry. Frederick Winslow Taylor s use of a stopwatch and a clipboard to analyze productivity at Midvale Steel Works in Pennsylvania increased output on the shop floor and fueled his belief that data science could revolutionize every aspect of life.2 In 1911,...



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