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Privacy and Security Policies in Big Data

3 March 2017, Pages 14-40

## Affordances of data science in agriculture, manufacturing, and education

( Book Chapter)

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### Abstract

Continued technological advancements of the 21st Century afford massive data generation in sectors of our economy to include the domains of agriculture, manufacturing, and education. However, harnessing such large-scale data, using modern technologies for effective decision-making appears to be an evolving science that requires knowledge of Big Data management and analytics. Big data in agriculture, manufacturing, and education are varied such as voluminous text, images, and graphs. Applying Big data science techniques (e.g., functional algorithms) for extracting intelligence data affords decision makers quick response to productivity, market resilience, and student enrollment challenges in today's unpredictable markets. This chapter serves to employ data science for potential solutions to Big Data applications in the sectors of agriculture, manufacturing and education to a lesser extent, using modern technological tools such as Hadoop, Hive, Sqoop, and MongoDB. © 2017 by IGI Global. All rights reserved.

### SciVal Topic Prominence ?

Topic: Data mining | Data handling | Cloud computing

Prominence percentile: 95.977 ?

### Indexed keywords

Engineering controlled terms:

- Agriculture
- Commerce
- Data mining
- Decision making
- Engineering education
- Information management
- Manufacture

Engineering uncontrolled terms

- Big data applications
- Large scale data
- Massive data
- Modern technologies
- Quick response
- Student enrollments
- Technological advancement
- Technological tools

Engineering main heading:

- Big data

## Chapters in this book

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- The basics of big data and security concerns
- Preface
- Affordances of data science in agriculture, manufacturing, and education
- Evolution of cloud in big data with hadoop on docker platform
- MonogDB: Data management in NoSQL
- A security-by-distribution approach to manage big data in a federation of untrustworthy clouds
- Selective data consistency model in No-SQL data store
- Educational data mining review: Teaching enhancement
- Privacy preserving data mining on unstructured data
- Differential privacy approach for big data privacy in healthcare
- Internet of things in real life: Applications
- Development of data analytics in shipping
- Big data predictive analysis for detection of prostate cancer on cloud-based platform: Microsoft Azure

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