

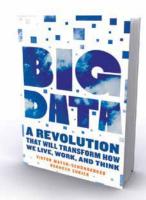
## **IN REVIEW**

## **Shifting Information Analysis: Big Data's Implications** for the Information Sciences and Professions

## Marc Kosciejew, Ph.D.

n Big Data: A Revolution That Will Transform How We Live, Work, and Think, Viktor Mayer-Schönberger and Kenneth Cukier present the emerging trend of big data and its various political, economic, social, and professional implications. This book is intended for a diverse academic and professional audience in various disciplines. It should be of particular

interest to scholars and practitioners in the information sciences and professions because of its focus on the information concepts and practices inherent in, and influenced by, big data. The chapters are divided by big data's major components, thereby providing a clear framework in which to approach and understand this emerging trend. A detailed section



**Big Data: A Revolution That Will Transform How** We Live, Work, and Think

Author: Viktor Mayer-Schönberger and **Kenneth Cukier** 

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Harcourt

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ISBN: 978-0-544-00269-2 Source: www.amazon.com for notes on each chapter is included, along with a bibliography and index.

## **Emphasizing Information**

The book's central argument is that big data is transforming the ways in which we approach, understand, measure, study, and interact with the world (of information) around us. Big data refers to the massive amounts of information generated and collected by agencies, companies, and institutions for diverse purposes and the advancements in computing power and storage that allow for the efficient and effective management and use of this information.

While technology plays an important role, information is the bedrock of the big data era. Big data opens up novel avenues of research and practice that were not possible when only smaller datasets were available, thereby providing opportunities for new kinds and sources of economic activity, value, innovation, and work.

Further, the authors argue that big data permits datafication (not to be confused with digitization) that is, processes and practices that render more aspects of reality into data points, data formats, and data sets to be used to better understand phenomena.

## **Shifting Information Analysis**

Of particular interest to information scholars and professionals is the discussion on the emerging changes in information analysis. The authors argue that big data demands three major shifts in analyzing information, which they call "more," "messy," and "correlations."

The first shift is big data's information surfeit: there is much more data that reveals details about phenomena that could not have been examined before this trend.

The second shift is big data's messiness: examining more data allows for the relaxation of precision. We are no longer constrained by the rigid exactitude demanded by small data; instead, with much larger and more comprehensive datasets we can gain greater insights at various analytical levels, from categories to sub-categories. Messiness does not mean discarding exactitude, only our devotion to it.

The third shift is big data's correlations: the information profusion helps reveal patterns and relationships that show what is happening in a particular case or phenomenon instead of why. We no longer have to obsess over causality, an obsession that can often lead to mistakes and misinformation; instead, we can concentrate on what is happening in order to discover new insights. Incidentally, once these correlations are established, they can then be used to help improve causation analysis.

## **Neglecting the Information Pro**fessions

A weakness of the book, however, is it neglects to recognize the integral roles played by information professionals in the big data era. The au-

thors state that for too long we have concentrated on the "T" (the technology) in IT, and it is now time to recast our focus on the "I" (the information). If that is so, the authors have ignored an essential part of the "I": the important and long-standing information professions. The authors barely discuss the information professions - from librarians to records and information managers and practitioners - that are directly, intricately, and intimately involved with the management of information and its life cycle in many contexts, past and present.

The authors do, however, discuss the so-called emerging data specialist who deals with big data. This discussion would be richer, more detailed, and more nuanced if the authors mentioned, at the very least, that information professionals are the original, current, and future data specialists, instead of presenting the data specialist as a new and unique kind of professional.

Nevertheless, the seventh chapter's discussion of how big data affects the skills, ideas, and mindsets essential to information management illuminates new directions and insights for information professionals as they embark on big data initiatives and projects.

## **Approaching Big Data**

This book provides an excellent foundation on which to approach, build, and expand one's knowledge and understanding of big data and its many implications for diverse actors, cases, settings, and scenarios. Although overlooked in the book, scholars and practitioners in the information sciences and professions will find its arguments, examples, and proscriptions informative for their approaches to, and their work with, big data. **END** 

Marc Kosciejew, Ph.D., can be contacted at mkosciej@gmail.com. See his bio on page 47.



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# **AUTHOR INFO**













**BARNES** 

**KOSCIEJEW** 

**RAAEN** 

**RICHARDSON** 

**SAFFADY** 

**WILER** 

## **Taking Control of E-Mail with Uniform Retention Rules** Page 20

William Saffady is a Professor at the Palmer School of Library and Information Science, Long Island University in New York City, where he teaches courses on information management topics. He previously held similar faculty positions at the State University of New York at Albany, Vanderbilt University in Nashville, Tennessee, and Pratt Institute in New York City. He is the author of over three dozen books and many articles on records management, document imaging, information storage technologies, office automation, and library automation. In addition to teaching and writing, Saffady serves as an information management consultant, providing training and analytical services to corporations, government agencies, and other organizations. He can be contacted at: wsaffady@aol.com.

## **Order in the Courts! RM Principles for** the Judiciary Page 26

Nial Raaen, CRM, is a principal court management consultant for the National Center for State Courts, an independent, non-profit organization dedicated to the improvement of courts. Raaen has more than 35 years of experience in local, state, and international court systems. He is a graduate of Vanderbilt University, holds master's degrees in public administration and social work from the University of Michigan, and is a graduate fellow of the Institute for Court Management. He can be reached at nraaen@ncsc.org.

## Analyze This: The Big Demand for **Big Data Professionals** Page 32

Nancy Dupre Barnes, Ph.D., CRM, CA, holds a Ph.D. in educational psychology and research from the University of Kansas. She has provided RIM, data analysis, and research-related services to organizations in a variety of sectors. Barnes is also in her seventh year of service to ISO/TC 46/SC 11 and ARMA International's Standards

Development Program. She is a self-employed consultant who can be reached at *ndbarnes@ymail.com*.

## **Making the Leap to an Information** Governance Role Page 38

Vicki Wiler is director of publications for ARMA International and editor-in-chief of Information Management. She received her bachelor of science degree in secondary education with an emphasis in English and journalism from Kansas State University. She can be contacted at vicki.wiler@armaintl.org.

## **RIM Fundamentals Series Forging a Partnership** with IT to Build a Solid IG Program Page 42

Blake Richardson, CRM, CIP, is a Certified Records Manager and Certified Information Professional with more than 16 years of records and information management experience. The author of Records Management For Dummies, he also serves on the Institute of Certified Records Managers' Exam Development Committee. He can be contacted at titansfan100@gmail.com.

## **Shifting Information Analysis: Big Data's** Implications for the Information Sciences and **Professions** Page 45

Marc Kosciejew, Ph.D., is a lecturer of library, information, and archives sciences within the faculty of Media and Knowledge Sciences at the University of Malta. His current research interests include the intersections of society and technology, records and information management, concepts and practices of information, and the histories of libraries and information. Kosciejew received his master's degree and Ph.D. in library and information science from Western University (formerly the University of Western Ontario) in London, Ontario, Canada. He also holds certificates in web search strategies, records management, and freedom of information and protection of privacy from the University of Toronto. He can be contacted at *mkosciej@gmail.com*.