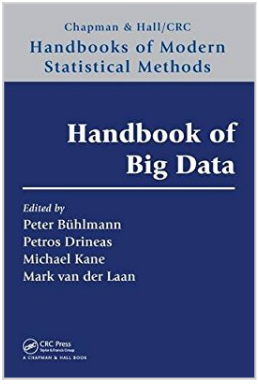


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Review

"The book contains a nice mix of philosophical musings, survey articles and cutting-edge research. It was designed as ‘a useful resource for seasoned practitioners and enthusiastic neophytes alike’ . . . Enthusiastic neophytes are still left with plenty to get their teeth into. In summary, I am happy to recommend the book to those seeking to broaden their understanding of the underpinning methodologies for analysing Big Data." ~ *Richard J. Samworth, University of Cambridge, UK*

About the Author

**Peter Bühlmann** is a professor of statistics at ETH Zürich, Switzerland, fellow of the Institute of Mathematical Statistics, elected member of the International Statistical Institute, and co-author of the book titled *Statistics for High-Dimensional Data: Methods, Theory and Applications*. He was named a Thomson Reuters’ 2014 Highly Cited Researcher in mathematics, served on various editorial boards and as editor of the *Annals of Statistics*, and delivered numerous presentations including a Medallion Lecture at the 2009 Joint Statistical Meetings, a read paper to the Royal Statistical Society in 2010, the 14th Bahadur Memorial Lectures at the University of Chicago, Illinois, USA, and other named lectures.

Petros Drineas is an associate professor in the Computer Science Department at Rensselaer Polytechnic Institute, Troy, New York, USA. He is the recipient of an Outstanding Early Research Award from Rensselaer Polytechnic Institute, an NSF CAREER award, and two fellowships from the European Molecular Biology Organization. He has served as a visiting professor at the US Sandia National Laboratories; visiting fellow at the Institute for Pure and Applied Mathematics, University of California, Los Angeles; long-term visitor at the Simons Institute for the Theory of Computing, University of California, Berkeley; program director in two divisions at the US National Science Foundation; and worked for industrial labs. He is a co-organizer of the series of workshops on Algorithms for Modern Massive Datasets and his research has been featured in numerous popular press articles.

Michael Kane is a member of the research faculty at Yale University, New Haven, Connecticut, USA. He is a winner of the American Statistical Association’s Chambers Statistical Software Award for The Bigmemory Project, a set of software libraries that allow the R programming environment to accommodate large datasets for statistical analysis. He is a grantee on the Defense Advanced Research Projects Agency’s XDATA project, part of the White House’s Big Data Initiative, and on the Gates Foundation’s Round 11 Grand Challenges Exploration. He has collaborated with companies including AT&T Labs Research, Paradigm4, Sybase, (a SAP company), and Oracle.

Mark van der Laan is the Jiann-Ping Hsu/Karl E. Peace professor of biostatistics and statistics at the University of California, Berkeley, USA. He is the inventor of targeted maximum likelihood estimation, a general semiparametric efficient estimation method that incorporates the state of the art in machine learning through the ensemble method super learning. He is the recipient of the 2005 COPPS Presidents’ and Snedecor Awards, the 2005-van Dantzig Award, and the 2004 Spiegelman Award. He is also the founding

editor of the *International Journal of Biostatistics* and the *Journal of Causal Inference*, and the co-author of more than 250 publications and various books.

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