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## Big Data Management, Technologies, and Applications



Part of the Advances in Data Mining and Database Management Book Series

Wen-Chen Hu (University of North Dakota, USA) and  
Naima Kaabouch (University of North Dakota, USA)

Due to the tremendous amount of data generated daily from fields such as business, research, and sciences, big data is everywhere. Therefore, alternative management and processing methods have to be created to handle this complex and unstructured data size.

**Big Data Management, Technologies, and Applications** discusses the exponential growth of information size and the innovative methods for data capture, storage, sharing, and analysis for big data. With its prevalence, this collection of articles on big data methodologies and technologies are beneficial for IT workers, researchers, students, and practitioners in this timely field.

### Topics Covered:

- Green Computing
- Applications Using Big Data
- Big Data Analytics
- Big Data Warehousing
- Cloud Computing for Big Data
- MapReduce and Hadoop Applications
- Standards, Policies, and Benchmarks

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**Wen-Chen Hu** received a BE, an ME, an MS, and a PhD, all in Computer Science, from Tamkang University, Taiwan, the National Central University, Taiwan, the University of Iowa, Iowa City, and the University of Florida, Gainesville, in 1984, 1986, 1993, and 1998, respectively. He is currently an associate professor in the Department of Computer Science of the University of North Dakota, Grand Forks. He was an assistant professor in the Department of Computer Science and Software Engineering at Auburn University, Alabama, for years. He is the Editor-in-Chief of the *International Journal of Handheld Computing Research (IJHCR)* and an associate editor of the *Journal of Information Technology Research (JITR)*, and has acted as editors and editorial advisory/review board members for over 30 international journals/books and served more than 30 tracks/sessions and program committees for international conferences. He has also won a couple of awards of best papers, best reviewers, and community services. Dr. Hu has been teaching more than 10 years at the US universities and over 10 different computer/IT-related courses, and advising more than 50 graduate students. He has published over 100 articles in refereed journals, conference proceedings, books, and encyclopedias, edited seven books and conference proceedings, and solely authored a book titled *Internet-Enabled Handheld Devices, Computing, and Programming: Mobile Commerce and Personal Data Applications*. His current research interests include handheld/mobile/smartphone/tablet computing, location-based services, Web-enabled information system such as search engines and Web mining, electronic and mobile commerce systems, and Web technologies. He is a member of the IEEE Computer Society and ACM (Association for Computing Machinery).



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