



Biometric Technologies and Verification Systems

By John R. Vacca

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Biometric Technologies and Verification Systems is organized into nine parts composed of 30 chapters, including an extensive glossary of biometric terms and acronyms. It discusses the current state-of-the-art in biometric verification/authentication, identification and system design principles. It also provides a step-by-step discussion of how biometrics works; how biometric data in human beings can be collected and analyzed in a number of ways; how biometrics are currently being used as a method of personal identification in which people are recognized by their own unique corporal or behavioral characteristics; and how to create detailed menus for designing a biometric verification system.

Only biometrics verification/authentication is based on the identification of an intrinsic part of a human being. Tokens, such as smart cards, magnetic stripe cards, and physical keys can be lost, stolen, or duplicated. Passwords can be forgotten, shared, or unintentionally observed by a third party. Forgotten passwords and lost "smart cards" are a nuisance for users and an expensive time-waster for system administrators. Biometric security solutions offer some unique advantages for identifying and verifying/ authenticating human beings over more traditional security methods. This book will serve to identify the various security applications biometrics can play a highly secure and specific role in.

- * Contains elements such as Sidebars, Tips, Notes and URL links
- * Heavily illustrated with over 150 illustrations, screen captures, and photographs
- * Details the various biometric technologies and how they work while providing a discussion of the economics, privacy issues and challenges of implementing biometric security solutions

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Review

"This text would be extremely useful as a ready reference for a seasoned security professional or as a primer for a novice."

"The author has struck a fine balance between the details and the big picture, and his book amply lives up to the desired purpose of the book."

"Right from this book's introductory lines until the end, Vacca demonstrates his excellent acumen in expressing a complex subject in very accessible prose, making it easy to understand."

Security Management, Col. Kuljeet Singh, CPP

About the Author

John Vacca is an information technology consultant, researcher, professional writer, Editor, reviewer, and internationally-known best-selling author based in Pomeroy, Ohio. Since 1982, John has authored/edited 79 books (some of his most recent books include):

- Security in the Private Cloud (Publisher: CRC Press (an imprint of Taylor & Francis Group, LLC) (September 1, 2016))
- Cloud Computing Security: Foundations and Challenges (Publisher: CRC Press (an imprint of Taylor & Francis Group, LLC) (August 19, 2016))
- Handbook of Sensor Networking: Advanced Technologies and Applications (Publisher: CRC Press (an imprint of Taylor & Francis Group, LLC) (January 14, 2015))
- Network and System Security, Second Edition, 2E (Publisher: Syngress (an imprint of Elsevier Inc.) (September 23, 2013))
- Cyber Security and IT Infrastructure Protection (Publisher: Syngress (an imprint of Elsevier Inc.) (September 23, 2013))
- Managing Information Security, Second Edition, 2E (Publisher: Syngress (an imprint of Elsevier Inc.) (September 23, 2013))
- Computer and Information Security Handbook, 2E (Publisher: Morgan Kaufmann (an imprint of Elsevier Inc.) (May 31, 2013))
- Identity Theft (Cybersafety) (Publisher: Chelsea House Pub (April 1, 2012))
- System Forensics, Investigation, And Response (Publisher: Jones & Bartlett Learning (September 24, 2010))
- Managing Information Security (Publisher: Syngress (an imprint of Elsevier Inc.) (March 29, 2010))
- Network and Systems Security (Publisher: Syngress (an imprint of Elsevier Inc.) (March 29, 2010))
- Computer and Information Security Handbook, 1E (Publisher: Morgan Kaufmann (an imprint of Elsevier Inc.) (June 2, 2009))
- Biometric Technologies and Verification Systems (Publisher: Elsevier Science & Technology Books (March 16, 2007))
- Practical Internet Security (Hardcover): (Publisher: Springer (October 18, 2006))
- Optical Networking Best Practices Handbook (Hardcover): (Publisher: Wiley-Interscience (November 28, 2006))
- Guide to Wireless Network Security (Publisher: Springer (August 19, 2006))

He has written more than 600 articles in the areas of advanced storage, computer security and aerospace technology (copies of articles and books are available upon request).

John was also a configuration management specialist, computer specialist, and the computer security official (CSO) for NASA's space station program (Freedom) and the International Space Station Program, from 1988 until his retirement from NASA in 1995.

In addition, John is also an independent online book reviewer. Finally, John was one of the security consultants for the MGM movie titled: "AntiTrust," which was released on January 12, 2001. A detailed copy of Johns author bio can be viewed at URL: <http://www.johnvacca.com>. John can be reached at: john2164@windstream.net.

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