

1. Record Nr.	UNINA9910780841303321
Autore	Vacca John R
Titolo	Biometric technologies and verification systems [[electronic resource] /] / John R. Vacca
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Butterworth-Heinemann/Elsevier, c2007
ISBN	1-282-54000-9 9786612540004 0-08-048839-0
Descrizione fisica	1 online resource (655 p.)
Disciplina	006.4
Soggetti	Biometric identification
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Biometric Technologies and Verification Systems; Copyright page; Table of contents; Foreword; Acknowledgments; Introduction; Part 1: Overview of Biometric Technology and Verification Systems; Chapter 1. What Is Biometrics?; Improved Biometrics Is Critical to Security! But Is It?; Different Biometric Standards; Consortium Helps Advance Biometric Technologies; How Biometric Verification Systems Work; Summary/Conclusion; References; Chapter 2. Types of Biometric Technology and Verification Systems; Biometric Technologies for Personal Identification Business and Federal Applications of Biometric Technologies Challenges and Issues in Using Biometrics; Risk Management Is the Foundation of Effective Strategy; Barriers to Future Growth; Summary/Conclusion; References; Chapter 3. Biometric Technology and Verification Systems Standards; Background; NIST's Accomplishments; International Civil Aviation Organization; Summary/Conclusion; References; Part 2: How Biometric Eye Analysis Technology Works; Chapter 4. How Iris Pattern Recognition Works; What Is Iris Pattern Recognition?; How Does Iris Pattern Recognition Work? The Biology Behind the Technology Current and Future Use; Summary/Conclusion; References; Chapter 5. How Retina Pattern Recognition Works; The Anatomy and the Uniqueness of the Retina; The Technology Behind Retinal Pattern Recognition; The Strengths and

Weaknesses of Retinal Pattern Recognition; The Applications of Retinal Pattern Recognition; Summary/Conclusion; References; Part 3: How Biometric Facial Recognition Technology Works; Chapter 6. How Video Face Recognition Works; How Facial Recognition Technology Works; The Face; The Software; Summary/Conclusion; References
Chapter 7. How Facial Thermal Imaging in the Infrared Spectrum Works; Methodology; Results and Discussion; Summary/Conclusion; Reference; Part 4: How Biometric Fingerscanning Analysis Technology Works; Chapter 8. How Finger Image Capture Works; What Is Finger Image Capture?; Practical Applications for Finger Image Capture; Accuracy and Integrity; Biometric Versus Nonbiometric Fingerprinting; Fingerprint Market Size; Fingerprint Growth Drivers and Enablers; Fingerprint Growth Inhibitors; Applications; Fingerprint Feature Extraction; Fingerprint Form Factors
Types of Scanners: Optical, Silicon, and
Ultrasound; Summary/Conclusion; References; Chapter 9. How Fingerscanning Verification and Recognition Works; Verification and Recognition; Verification Algorithms; Summary/Conclusion; References; Part 5: How Biometric Geometry Analysis Technology Works; Chapter 10. How Hand Geometry Image Technology Works; Applications for Hand Scanning; Combining Biometric Methods; How It Works; Hand Geometry Strengths and Weaknesses; Enhanced Biometric Technology; Highest User Acceptance; Applications; Hand Geometry Market Size; Summary/Conclusion; References
Chapter 11. How Finger Geometry Technology Works

Sommario/riassunto

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
