

BIOMETRICS

Fingerprint Recognition

Facial Recognition

Iris Recognition

Voice Recognition

Retina Scanning

Hand Geometry Recognition

Vein Pattern Recognition

Gait Recognition

Biometrics Biometrics

**National Research Council, Division on
Engineering and Physical
Sciences, Computer Science and
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Biometrics Yingzi (Eliza) Du, 2013-01-07 This book introduces readers to the basic concepts classical approaches and the newest design development and applications of biometrics It also provides a glimpse of future designs and research directions in biometrics In addition it discusses some latest concerns and issues in this area Suitable for a wide range of readers the book explains

Signal and Image Processing for Biometrics Amine Nait-Ali, Regis Fournier, 2012-12-17 The aim of this book is to deal with biometrics in terms of signal and image processing methods and algorithms This will help engineers and students working in digital signal and image processing deal with the implementation of such specific algorithms It discusses numerous signal and image processing techniques that are very often used in biometric applications In particular algorithms related to hand feature extraction speech recognition 2D 3D face biometrics video surveillance and other interesting approaches are presented Moreover in some chapters Matlab codes are provided so that readers can easily reproduce some basic simulation results This book is suitable for final year undergraduate students postgraduate students engineers and researchers in the field of computer engineering and applied digital signal and image processing

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Guide to Biometrics Ruud M. Bolle, Jonathan H. Connell, Sharath Pankanti, Nalini K. Ratha, Andrew W. Senior, 2013-06-29 Starting with fingerprints more than a hundred years ago there has been ongoing research in biometrics Within the last forty years face and speaker recognition have emerged as research topics However as recently as a decade ago biometrics itself did not exist as an independent field Each of the biometric related topics grew out of different disciplines For example the study of fingerprints came from forensics and pattern recognition speaker recognition evolved from signal processing the beginnings of face recognition were in computer vision and privacy concerns arose from the public policy arena One of the challenges of any new field is to state what the

core ideas are that define the field in order to provide a research agenda for the field and identify key research problems Biometrics has been grappling with this challenge since the late 1990s With the maturation of biometrics the separate biometrics areas are coalescing into the new discipline of biometrics The establishment of biometrics as a recognized field of inquiry allows the research community to identify problems that are common to biometrics in general It is this identification of common problems that will define biometrics as a field and allow for broad advancement Biometric Recognition National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Whither Biometrics Committee, 2010-12-12 Biometric recognition the automated recognition of individuals based on their behavioral and biological characteristic is promoted as a way to help identify terrorists provide better control of access to physical facilities and financial accounts and increase the efficiency of access to services and their utilization Biometric recognition has been applied to identification of criminals patient tracking in medical informatics and the personalization of social services among other things In spite of substantial effort however there remain unresolved questions about the effectiveness and management of systems for biometric recognition as well as the appropriateness and societal impact of their use Moreover the general public has been exposed to biometrics largely as high technology gadgets in spy thrillers or as fear instilling instruments of state or corporate surveillance in speculative fiction Now as biometric technologies appear poised for broader use increased concerns about national security and the tracking of individuals as they cross borders have caused passports visas and border crossing records to be linked to biometric data A focus on fighting insurgencies and terrorism has led to the military deployment of biometric tools to enable recognition of individuals as friend or foe Commercially finger imaging sensors whose cost and physical size have been reduced now appear on many laptop personal computers handheld devices mobile phones and other consumer devices Biometric Recognition Challenges and Opportunities addresses the issues surrounding broader implementation of this technology making two main points first biometric recognition systems are incredibly complex and need to be addressed as such Second biometric recognition is an inherently probabilistic endeavor Consequently even when the technology and the system in which it is embedded are behaving as designed there is inevitable uncertainty and risk of error This book elaborates on these themes in detail to provide policy makers developers and researchers a comprehensive assessment of biometric recognition that examines current capabilities future possibilities and the role of government in technology and system development Biometrics Anil K. Jain, Ruud Bolle, Sharath Pankanti, 2006-04-18 Biometrics Personal Identification in Networked Society is a comprehensive and accessible source of state of the art information on all existing and emerging biometrics the science of automatically identifying individuals based on their physiological or behavior characteristics In particular the book covers General principles and ideas of designing biometric based systems and their underlying tradeoffs Identification of important issues in the evaluation of biometrics based systems Integration of biometric cues and the integration of biometrics with other existing

technologies Assessment of the capabilities and limitations of different biometrics The comprehensive examination of biometric methods in commercial use and in research development Exploration of some of the numerous privacy and security implications of biometrics Also included are chapters on face and eye identification speaker recognition networking and other timely technology related issues All chapters are written by leading internationally recognized experts from academia and industry Biometrics Personal Identification in Networked Society is an invaluable work for scientists engineers application developers systems integrators and others working in biometrics

Biometrics Francisco Liébana Cabanillas, Francisco Muñoz Leiva, Juan F. Prados Castillo, Elena Higuera-Castillo, 2025-07-25 The book provides a comprehensive overview of biometrics including its theoretical foundations and practical applications and offers valuable insights into its relevance and impact on various sectors of society It provides readers with a comprehensive view of how biometrics can shape future solutions that are secure user focused and technologically advanced The first part discusses the fundamentals and applications of biometric technology The second part discusses the challenges and future of biometric technologies

Biometrics For Dummies Peter H. Gregory, Michael A. Simon, 2009-02-25 What is biometrics Whether you're just curious about how biometrics can benefit society or you need to learn how to integrate biometrics with an existing security system in your organization Biometrics For Dummies can help Here's a friendly introduction to biometrics the science of identifying humans based on unique physical characteristics With the government's use of biometrics for example biometric passport readers and application of the technology for law enforcement biometrics is growing more popular among security experts Biometrics For Dummies explains biometric technology explores biometrics policy and privacy issues with biometrics and takes a look at where the science is heading You'll discover How pattern recognition and fingerprint recognition are used The many vulnerabilities of biometric systems and how to guard against them How various countries are handling the privacy issues and what can be done to protect citizens' privacy How a scan of the palm veins in the hand and sonar imagery establish identity What it takes to fully authenticate a signature How gait speech linguistic analysis and other types of biometric identification come into play The criteria for setting up an implementation plan How to use authentication authorization and access principles Written by a pair of security experts Biometrics For Dummies gives you the basics in an easy to understand format that doesn't scrimp on substance You'll get up to speed and enjoy getting there

Selfie Biometrics Ajita Rattani, Reza Derakhshani, Arun Ross, 2019-09-21 This book highlights the field of selfie biometrics providing a clear overview and presenting recent advances and challenges It also discusses numerous selfie authentication techniques on mobile devices Biometric authentication using mobile devices is becoming a convenient and important means of verifying identity for secured access and services such as telebanking and electronic transactions In this context face and ocular biometrics in the visible spectrum has gained increased attention from the research community However device mobility and operation in uncontrolled environments mean that facial and ocular images captured with mobile devices exhibit substantial degradation

as a result of adverse lighting conditions specular reflections and motion and defocus blur In addition low spatial resolution and the small sensor of front facing mobile cameras further degrade the sample quality reducing the recognition accuracy of face and ocular recognition technology when integrated into smartphones Presenting the state of the art in mobile biometric research and technology and offering an overview of the potential problems in real time integration of biometrics in mobile devices this book is a valuable resource for final year undergraduate students postgraduate students engineers researchers and academics in various fields of computer engineering

Practical Biometrics Julian Ashbourn, 2012-12-06 Containing a wealth of real world advice and written from an operational perspective Practical Biometrics examines the many issues raised by the application of biometric technologies to practical situations with specific regard to wide scale public applications It acts as a practical guide to implementation identifying the associated issues around Scalability in applications featuring biometric verification techniques Interoperability both from a technical and operational perspective Ethnicity and the associated implications for biometric verification checks Failure to enroll and other error conditions User psychology the less obvious but vitally important aspects of operational performance Practical Biometrics provides an invaluable resource to program managers application developers consultants and other interested in this technology

Beyond Passwords: The Rise of Biometrics in Human Authentication Ms.V.Guna Nandhini, Dr.M.Punitha, Dr.P.Punitha Ponmalar, 2025-06-20

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