Iris Recognition For Personal Identification

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JACOBY FITZPATRICK

Biometrics For Dummies American Bar Association
Biometric recognition, or simply biometrics, is the science of establishing the identity of a person based on physical or behavioral attributes. It is a rapidly evolving field with applications ranging from securely accessing one’s computer to gaining entry into a country. While the deployment of large-scale biometric systems in both commercial and government applications has increased the public awareness of this technology, "Introduction to Biometrics" is the first textbook to introduce the fundamentals of Biometrics to undergraduate/graduate students. The three commonly used modalities in the biometrics field, namely, fingerprint, face, and iris are covered in detail in this book. Few other modalities like hand geometry, ear, and gait are also discussed briefly along with advanced topics such as multibiometric systems and security of biometric systems. Exercises for each chapter will be available on the book website to help students gain a better understanding of the topics and obtain practical experience in designing computer programs for biometric applications. These can be found at: http://www.csee.wvu.edu/~ross/BiometricsTextBook/. Designed for undergraduate and graduate students in computer science and electrical engineering, "Introduction to Biometrics" is also suitable for researchers and biometric and computer security professionals.
State of the art in Biometrics National Academies Press
In the last few years, biometric techniques have proven their ability to provide secure access to shared resources in various domains. Furthermore, software agents and multi-agent systems (MAS) have

shown their efficiency in resolving critical network problems. Iris Biometric Model for Secured Network Access proposes a new model, the IrisCryptoAgen

Advances in Biometrics Elsevier

The definitive work on iris recognition technology, this comprehensive handbook presents a broad overview of the state of the art in this exciting and rapidly evolving field. Revised and updated from the highly-successful original, this second edition has also been considerably expanded in scope and content, featuring four completely new chapters. Features: provides authoritative insights from an international selection of preeminent researchers from government, industry, and academia; reviews issues covering the full spectrum of the iris recognition process, from acquisition to encoding; presents surveys of topical areas, and discusses the frontiers of iris research, including cross-wavelength matching, iris template aging, and anti-spoofing; describes open source software for the iris recognition pipeline and datasets of iris images; includes new content on liveness detection, correcting off-angle iris images, subjects with eye conditions, and implementing software systems for iris recognition.

Introduction to Biometrics CRC Press

Recent advances in biometrics include new developments in sensors, modalities and algorithms. As new sensors are designed, newer challenges emerge in the algorithms for accurate recognition. Written for researchers, advanced students and practitioners to use as a handbook, this volume captures the very latest state-of-the-art research contributions from leading international researchers. It offers coverage of the entire gamut of topics in the field, including sensors, data acquisition, pattern-matching algorithms, and issues that impact at the system level, such as standards, security, networks, and databases

Automated Biometrics Springer Science & Business Media

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!

Biometric Systems Packt Publishing Ltd

In todayOCOs digital infrastructure we have to interact with an increasing number of systems, both in the physical and virtual world. Identity management (IdM) -- the process of identifying an individual and controlling access to resources based on their associated privileges -- is becoming progressively complex. This has brought the spotlight on the importance of effective and efficient means of ascertaining an individualOCOs identity. Biometric technologies like fingerprint recognition, face recognition, iris recognition etc. have a long history of use in law enforcement applications and are now transitioning towards commercial applications like password replacements, ATM authentication and others.This unique book provides you with comprehensive coverage of commercially available biometric technologies, their underlying principles, operational challenges and benefits, and deployment considerations. It also offers a look at the future direction these technologies are taking. By focusing on factors that drive the practical implementation of biometric technologies, this book serves to bridge the gap between academic researchers and industry practitioners. This book focuses on design, development, and deployment issues related to biometric technologies, including operational challenges, integration strategies, technical evaluations of biometric systems, standardization and privacy preserving principles, and several open questions which need to be answered for successful deployments."

Technology assessment using biometrics for border security. LAP Lambert Academic Publishing

Biometric security systems is core subject for PG students in information security, computer science, cyber security, forensic science and other related streams etc. This book is primarily intended to serve as a beginner’s textbook in accordance with the syllabus of biometric security offered by CSVTU and various universities in India. In this book, a significant effort has been made to find simple ways to develop theoretical aspects of biometric systems. Neat and clear diagrams have been used for explanations. Author has also introduced case study and biometric programming concept in java. The author hopes that the book will fulfill the need of the readers and would welcome any suggestions towards the improvement of the book.

Advances in Biometrics LAP Lambert Academic Publishing

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.

Iris Recognition Springer Science & Business Media

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 matu ration 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.

Advances in Biometric Person Authentication Springer Science & Business Media

Biometric recognition is one of the most widely studied problems in computer science. The use of biometrics techniques, such as face, fingerprints, iris and ears is a solution for obtaining a secure personal identification. However, the "old" biometrics identification techniques are out of date. This goal of this book is to provide the reader with the most up to date research performed in biometric recognition and descript some novel methods of biometrics, emphasis on the state of the art skills. The book consists of 15 chapters, each focusing on a most up to date issue. The chapters are divided into five sections- fingerprint recognition, face recognition, iris recognition, other biometrics and biometrics security. The book was reviewed by editors Dr. Jucheng Yang and Dr. Loris Nanni. We deeply appreciate the efforts of our guest editors: Dr. Girija Chetty, Dr. Norman Poh, Dr. Jianjiang Feng, Dr. Dongsun Park and Dr. Sook Yoon, as well as a number of anonymous reviewers

Identity Management with Biometrics Artech House

Iris recognition has received increasing attention recently in the world. A biometric system provides automatic identification of an individual based on a unique feature or characteristic possessed by the individual. Iris recognition is regarded as themost reliable and accurate biometric identification system available. Most commercialiris recognition systems use patented algorithms developed by

Daugman, and these algorithms are able to produce perfect recognition rates. However, published results have usually been produced under favorable conditions, and there have been no independent trials of the technology. This research presents an iris recognition system in order to verify both theuniqueness of the human iris and also its performance as a biometric identification andalso focuses on the iris feature matching in iris recognition system. The proposed MatrixIndex Matching Method has been employed for classification of iris templates, and twotemplates are found to match if two templates' change index is zero. In iris recognitionthis method can be used for human identification in efficient manner.

Iris Recognition Springer

While a sharp debate is emerging about whether conventional biometric technology offers society any significant advantages over other forms of identification, and whether it constitutes a threat to privacy, technology is rapidly progressing. Politicians and the public are still discussing fingerprinting and iris scan, while scientists and engineers are already testing futuristic solutions. Second generation biometrics - which include multimodal biometrics, behavioural biometrics, dynamic face recognition, EEG and ECG biometrics, remote iris recognition, and other, still more astonishing, applications – is a reality which promises to overturn any current ethical standard about human identification. Robots which recognise their masters, CCTV which detects intentions, voice responders which analyse emotions: these are only a few applications in progress to be developed. This book is the first ever published on ethical, social and privacy implications of second generation biometrics. Authors include both distinguished scientists in the biometric field and prominent ethical, privacy and social scholars. This makes this book an invaluable tool for policy makers, technologists, social scientists, privacy authorities involved in biometric policy setting. Moreover it is a precious instrument to update scholars from different disciplines who are interested in biometrics and its wider social, ethical and political implications.

The Practitioner's Guide to Biometrics Springer Science & Business Media

The development of technologies for the identi?cation of individuals has driven the interest and curiosity of many people. Spearheaded and inspired by the Bertillon coding system for the classi?cation of humans based on physical measurements, scientists and engineers have been trying to invent new devices and classi?cation systems to capture the human identity from its body measurements. One of the main limitations of the precursors of today’s biometrics, which is still present in the vast majority of the existing biometric systems, has been the need to keep the device in close contact with the subject to capture the biometric measurements. This clearly limits the applicability and convenience of biometric systems. This book presents an important step in addressing this limitation by describing a number of methodologies to capture meaningful biometric information from a distance. Most materials covered in this book have been presented at the International Summer School on Biometrics which is held every year in Alghero, Italy and which has become a ?agship activity of the IAPR Technical Committee on Biometrics (IAPR TC4). The

last four chapters of the book are derived from some of the best p- sentations by the participating students of the school. The educational value of this book is also highlighted by the number of proposed exercises and questions which will help the reader to better understand the proposed topics.

Biometrics John Wiley & Sons

rd It is a pleasure and an honour both to organize ICB 2009, the 3 IAPR/IEEE Inter- tional Conference on Biometrics. This will be held 2–5 June in Alghero, Italy, hosted by the Computer Vision Laboratory, University of Sassari. The conference series is the premier forum for presenting research in biometrics and its allied technologies: the generation of new ideas, new approaches, new techniques and new evaluations. The ICB series originated in 2006 from joining two highly reputed conferences: Audio and Video Based Personal Authentication (AVBPA) and the International Conference on Biometric Authentication (ICBA). Previous conferences were held in Hong Kong and in Korea. This is the first time the ICB conference has been held in Europe, and by Programme Committee, arrangements and by the quality of the papers, ICB 2009 will continue to maintain the high standards set by its predecessors. In total we received around 250 papers for review. Of these, 36 were selected for oral presentation and 93 for poster presentation. These papers are accompanied by the invited speakers: Heinrich H. Bülthoff (Max Planck Institute for Biological Cybernetics, Tüb- gen, Germany) on “What Can Machine Vision Learn from Human Perception?”, - daoki Furui (Department of Computer Science, Tokyo Institute of Technology) on “40 Years of Progress in Automatic Speaker Recognition Technology” and Jean-Christophe Fondeur (SAGEM Security and Morpho, USA) on “Large Scale Deployment of Biom- rics and Border Control”.

Face Biometrics for Personal Identification Springer Science & Business Media

This book provides ample coverage of theoretical and experimental state-of-the-art work as well as new trends and directions in the biometrics field. It offers students and software engineers a thorough understanding of how some core low-level building blocks of a multi-biometric system are implemented. While this book covers a range of biometric traits, its main emphasis is placed on multi-sensory and multi-modal face biometrics algorithms and systems.

Biometrics and the Future of Money LAP Lambert Academic Publishing

Biometrics is the technical term for body measurements and calculations. It refers to metrics related to human characteristics. Biometrics authentication (or realistic authentication) is used in computer science as a form of identification and access control. It is also used to identify individuals in groups that are under surveillance. Biometric identifiers are then distinctive, measurable characteristics used to label and describe individuals Biometric identifiers are often categorized as physiological versus behavioral characteristics. Physiological characteristics are related to the shape of the body. Examples include, but are not limited to fingerprint, palm veins, face recognition, DNA, palm print, hand geometry, iris recognition, retina and odour/scent. Behavioral characteristics are related to the pattern of behavior of a person, including but not limited to typing rhythm, gait, and voice. Some researchers

have coined the term behaviometrics to describe the latter class of biometrics. More traditional means of access control include token-based identification systems, such as a driver's license or passport, and knowledge-based identification systems, such as a password or personal identification number. Since biometric identifiers are unique to individuals, they are more reliable in verifying identity than token and knowledge-based methods; however, the collection of biometric identifiers raises privacy concerns about the ultimate use of this information. This book is about the latest in technology that is used to confirm personal identity and/or control personnel access. This book is designed to be a state of the art, superb academic reference work and provide an overview of the topic and give the reader a structured knowledge to familiarize yourself with the topic at the most affordable price possible. The accuracy and knowledge is of an international viewpoint as the edited articles represent the inputs of many knowledgeable individuals and some of the most current knowledge on the topic, based on the date of publication.

State of the art in Biometrics DIANE Publishing

A key driving factor for biometrics is the widespread national and international depl- ment of biometric systems that has been initiated in the past two years and is about to accelerate. While nearly all current biometric deployments are government-led and pr- cipally concerned with national security and border control scenarios, it is now apparent that the widespread availability of biometrics in everyday life will also spin out an ev- increasing number of (private) applications in other domains. Crucial to this vision is the management of the user’s identity, which does not only imply the creation and update of a biometric template, but requires the development of instruments to properly handle all the data and operations related to the user identity. COST Action 2101 on Biometrics for Identity Documents and Smart Cards has - erated as a valuable and effective platform for close collaboration of European sci- tists from academia and industry researching biometrics for identity documents and smartcards. This has led to the continuous advances achieved in various classes of biometrics and their implementations in the identity management domain. These c- tributions to knowledge in this field were first presented at the First European Wo- shop on Biometrics and Identity Management (BioID 2008) organized in Roskilde, Denmark during May 7–9, 2008.

Recognition of Human Iris Patterns BoD – Books on Demand

Biometric recognition is one of the most widely studied problems in computer science. The use of biometrics techniques, such as face, fingerprints, iris and ears is a solution for obtaining a secure personal identification. However, the "old" biometrics identification techniques are out of date. This goal of this book is to provide the reader with the most up to date research performed in biometric recognition and descript some novel methods of biometrics, emphasis on the state of the art skills. The book consists of 15 chapters, each focusing on a most up to date issue. The chapters are divided into five sections- fingerprint recognition, face recognition, iris recognition, other biometrics and biometrics security. The book was reviewed by editors Dr. Jucheng

Yang and Dr. Loris Nanni. We deeply appreciate the efforts of our guest editors: Dr. Girija Chetty, Dr. Norman Poh, Dr. Jianjiang Feng, Dr. Dongsun Park and Dr. Sook Yoon, as well as a number of anonymous reviewers

Data and Communication Networks Springer

The book constitutes selected high quality papers presented in International Conference on Computing, Power and Communication Technologies 2018 (GUCON 2018) organised by Galgotias University, India, in September 2018. It discusses issues in electrical, computer and electronics engineering and technologies. The selected papers are organised into three sections - cloud computing and computer networks; data mining and big data analysis; and bioinformatics and machine learning. In-depth discussions on various issues under these topics provides an interesting compilation for researchers, engineers, and students.

Audio-and Video-Based Biometric Person Authentication IntechOpen

Work with common biometrics such as face, fingerprint, and iris recognition for business and personal use to ensure secure identification and authentication for fintech, homes, and computer systems Key FeaturesExplore the next iteration of identity protection and overcome real-world challengesUnderstand different biometric use cases to deploy a large-scale biometric systemCurated by renowned security ambassador and experienced author Lisa BockBook Description Biometric technologies provide a variety of robust and convenient methods to securely identify and authenticate an individual. Unlike a password or smart card, biometrics can identify an attribute that is not only unique to an individual, but also eliminates any possibility of duplication. Identity Management with Biometrics is a solid introduction for anyone who wants to explore biometric techniques, such as fingerprint, iris, voice, palm print, and facial recognition. Starting with an overview of biometrics, you'll learn the various uses and applications of biometrics in fintech, buildings, border control, and many other fields. You'll understand the characteristics of an optimal biometric system and then review different types of errors and discover the benefits of multi-factor authentication. You'll also get to grips with analyzing a biometric system for usability and accuracy and understand the process of implementation, testing, and deployment, along with addressing privacy concerns. The book outlines the importance of protecting biometric data by using encryption and shows you which factors to consider and how to analyze them before investing in biometric technologies. By the end of this book, you'll be well-versed with a variety of recognition processes and be able to make the right decisions when implementing biometric technologies. What you will learnReview the advantages and disadvantages of biometric technologyUnderstand the characteristics of an optimal biometric systemDiscover the uses of biometrics and where they are usedCompare different types of errors and see how to tune your systemUnderstand the benefits of multi-factor authenticationWork with commonly used biometrics such as face, fingerprint, and irisAnalyze a biometric system for usability and accuracyAddress privacy concerns and get a glimpse of the future of

biometricsWho this book is for Identity Management with Biometrics is for IT managers, security professionals, students, teachers, and anyone involved in selecting, purchasing, integrating, or securing a biometric system. This book will help you understand how to select the right biometric system for your organization and walk you through the steps for implementing identity management and authentication. A basic understanding of biometric authentication techniques, such as fingerprint and facial recognition, and the importance of providing a secure method of authenticating an individual will help you make the most of the book.