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KEY=TECHNOLOGIES - ALIJAH AVA

BIOMETRIC TECHNOLOGIES AND VERIFICATION SYSTEMS

Elsevier 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

BIOMETRICS

IDENTITY VERIFICATION IN A NETWORKED WORLD

John Wiley & Sons An insight into the biometric industry and the steps forsuccessful deployment Biometrics technologies verify identity through characteristicssuch as fingerprints, voices, and faces. By providing increasedsecurity and convenience, biometrics have begun to see widespreaddeployment in network, e-commerce, and retail applications. Thisbook provides in-depth analysis of biometrics as a solution forauthenticating employees and customers. Leading authority, SamirNanavati explores privacy, security, accuracy, system design, userperceptions, and lessons learned in biometric deployments. He alsoassesses the real-world strengths and weaknesses of leadingbiometric technologies: finger-scan, iris-scan, facial-scan,voice-scan, and signature-scan. This accessible book is a necessarystep in understanding and implementing biometrics. Demystifies the complex world of optical networks for IT andbusiness managers Over the past few years, the cost of fiber optic networking hasdecreased, making it the best solution for providing virtuallyunlimited bandwidth for corporate LANs and WANs, metropolitannetworks, Internet access, and broadband to the home. The onlystrategic book on optical networking technologies written from areal-world business perspective, Optical Networking demystifiescomplex fiber technologies for managers, and details the practicalbusiness benefits an optical network can offer. Debra Cameronexplores established and emerging markets for optical networks aswell as the enabling technologies, applications, networkarchitectures, key deployment issues, and cost considerations. Shealso provides in-depth case studies of optical networks now in usein the United States and abroad.

BIOMETRIC SYSTEMS

TECHNOLOGY, DESIGN AND PERFORMANCE EVALUATION

Springer Science & Business Media Biometric Systems provides practitioners with an overview of the principles and methods needed to build reliable biometric systems. It covers three main topics: key biometric technologies, design and management issues, and the performance evaluation of biometric systems for personal verification/identification. The four most widely used technologies are focused on - speech, fingerprint, iris and face recognition. Key features include: in-depth coverage of the technical and practical obstacles which are often neglected by application developers and system integrators and which result in shortfalls between expected and actual performance; and protocols and benchmarks which will allow developers to compare performance and track system improvements.

THE SCIENCE OF BIOMETRICS

SECURITY TECHNOLOGY FOR IDENTITY VERIFICATION

Routledge The Science of Biometrics: Security Technology for Identity Verification covers the technical aspects of iris and facial recognition, focusing primarily on the mathematical and statistical algorithms that run the verification and identification processes in these two modalities. Each chapter begins with a review of the technologies, examining how they work, their advantages and disadvantages, as well as some of their established market applications. Numerous approaches are examined. Facial recognition is much more of an emerging biometric technology than iris recognition; therefore, there are more algorithms that are currently being developed in that area. After this review, numerous applications of these two modalities are covered as well, some of which have just been commercially deployed while others are under research and development. Chapters 3 and 4 conclude with case studies to provide further application review. This book is directed to security managers, electronic security system designers, consultants, and system integrators, as well as electronic security system manufacturers working in access control and biometrics.

ORDNUNGS- UND VERZEICHNUNGSRICHTLINIE FÜR DIE UNTERLAGEN DES STAATSSICHERHEITSDIENSTES DER EHEMALIGEN DEUTSCHEN DEMOKRATISCHEN REPUBLIK IN DEN ARCHIVEN DES BUNDESBEAUFTRAGTEN

BIOMETRIC SYSTEM AND DATA ANALYSIS

DESIGN, EVALUATION, AND DATA MINING

Springer Science & Business Media This book brings together aspects of statistics and machine learning to provide a comprehensive guide to evaluating, interpreting and understanding biometric data. It naturally leads to topics including data mining and prediction to be examined in detail. The book places an emphasis on the various performance measures available for biometric systems, what they mean, and when they should and should not be applied. The evaluation techniques are presented rigorously, however they are always accompanied by intuitive explanations. This is important for the increased acceptance of biometrics among non-technical decision makers, and ultimately the general public.

BIOMETRIC RECOGNITION

CHALLENGES AND OPPORTUNITIES

National Academies Press 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.

DESIGN AND IMPLEMENTATION OF HEALTHCARE BIOMETRIC SYSTEMS

IGI Global Healthcare sectors often deal with a large amount of data related to patients' care and hospital workforce management. Mistakes occur, and the impending results are disastrous for individuals' personal identity information. However, an innovative and reliable way to safeguard the identity of individuals and provide protection of medical records from criminals is already in effect. Design and Implementation of Healthcare Biometric Systems provides innovative insights into medical identity theft and the benefits behind biometrics technologies that could be offered to protect medical records from hackers and malicious users. The content within this publication represents the work of ASD screening systems, healthcare management, and patient rehabilitation. It is designed for educators, researchers, faculty members, industry practitioners, graduate students, and professionals working with healthcare services and covers topics centered on understanding the practical essence of next-generation healthcare biometrics systems and future research directions.

GUIDE TO BIOMETRICS FOR LARGE-SCALE SYSTEMS

TECHNOLOGICAL, OPERATIONAL, AND USER-RELATED FACTORS

Springer Science & Business Media This book considers biometric technology in a broad light, integrating the concept seamlessly into mainstream IT, while discussing the cultural attitudes and the societal impact of identity management. Features: summarizes the material covered at the beginning of every chapter, and provides chapter-ending review questions and discussion points; reviews identity verification in nature, and early historical interest in anatomical measurement; provides an overview of biometric technology, presents a focus on biometric systems and true systems integration, examines the concept of identity management, and predicts future trends; investigates performance issues in biometric systems, the management and security of biometric data, and the impact of mobile devices on biometrics technology; explains the equivalence of performance across operational nodes, introducing the APEX system; considers the legal, political and societal factors of biometric technology, in addition to user psychology and other human factors.

BIOMETRICS: ADVANCED IDENTITY VERIFICATION

THE COMPLETE GUIDE

Springer Biometric identity verification (BIV) offers a radical alternative to passports, PIN numbers, ID cards and driving licences. It uses physiological or behavioural characteristics such as fingerprints, hand geometry, and retinas to check a person's identity. It is therefore much less open to fraudulent use, which makes it ideal for use in voting systems, financial transactions, benefit payment administration, border control, and prison access. This is the first book to provide business readers with an easy-to-read, non-technical introduction to BIV systems. It explains the background and then tells the reader how to get their system up and running quickly. It will be an invaluable read for practitioners, managers and IT personnel - in fact for anyone considering, or involved in, implementing a BIV system. Julian Ashbourn was one of the pioneers in integrating biometric technology and has provided input into many prototype BIV systems around the world.

BIOMETRIC SOLUTIONS

FOR AUTHENTICATION IN AN E-WORLD

Springer Science & Business Media Biometric Solutions for Authentication in an E-World provides a collection of sixteen chapters containing tutorial articles and new material in a unified manner. This includes the basic concepts, theories, and characteristic features of integrating/formulating different facets of biometric solutions for authentication, with recent developments and significant applications in an E-world. This book provides the reader with a basic concept of biometrics, an in-depth discussion exploring biometric technologies in various applications in an E-world. It also includes a detailed description of typical biometric-based security systems and up-to-date coverage of how these issues are developed. Experts from all over the world demonstrate the various ways this integration can be made to efficiently design methodologies, algorithms, architectures, and implementations for biometric-based applications in an E-world.

BIOMETRICS FOR NETWORK SECURITY

Prentice Hall Professional Reid (senior product manager, Cryptometrics) introduces the technical capabilities and limitations of computer biometric systems for measuring fingerprints, eye characteristics, or other body information as a computer security measure serving a similar purpose to personal identification numbers. He describes the workings of the different types of technologies and examines some of the mathematics behind biometric systems. He also describes the conceptualization and implementation of a particular system with which he was involved. Annotation : 2004 Book News, Inc., Portland, OR (booknews.com).

SECURITY AND ACCESS CONTROL USING BIOMETRIC TECHNOLOGIES

Cengage Learning Security and Access Control Using Biometric Technologies presents an introduction to biometrics or the study of recognizing individuals based on their unique physical or behavioral traits, as they relate to computer security. The book begins with the basics of biometric technologies and discusses how and why biometric systems are emerging in information security. An emphasis is directed towards authentication, authorization, identification, and access control. Topics covered include security and management required to protect valuable computer and network resources and assets, and methods of providing control over access and security for computers and networks. Written for a broad level of readers, this book applies to information system and information technology students, as well as network managers, security administrators and other practitioners. Oriented towards the practical application of biometrics in the real world, Security and Access Control Using Biometric Technologies provides the reader with a realistic view of the use of biometrics in the ever-changing industry of information security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

BIOMETRICS

BODIES, TECHNOLOGIES, BIOPOLITICS

Routledge Biometric technologies, such as finger- or facial-scan, are being deployed across a variety of social contexts in order to facilitate and guarantee identity verification and authentication. In the post-9/11 world, biometric technologies have experienced an extraordinary period of growth as concerns about security and screening have increased. This book analyses biometric systems in terms of the application of biopolitical power – corporate, military and governmental – on the human body. It deploys cultural theory in examining the manner in which biometric technologies constitute the body as a target of surveillance and as a data-information object. The book thereby provides a comprehensive overview and critical analysis of both the local and global ramifications of biometric technologies.

BIOMETRIC SYSTEMS

MDPI Because of the accelerating progress in biometrics research and the latest nation-state threats to security, this book's publication is not only timely but also much needed. This volume contains seventeen peer-reviewed chapters reporting the state of the art in biometrics research: security issues, signature verification, fingerprint identification, wrist vascular biometrics, ear detection, face detection and identification (including a new survey of face recognition), person re-identification, electrocardiogram (ECT) recognition, and several multi-modal systems. This book will be a valuable resource for graduate students, engineers, and researchers interested in understanding and investigating this important field of study.

SIMPLE TEST PROCEDURE FOR IMAGE-BASED BIOMETRIC VERIFICATION SYSTEMS (CLASSIC REPRINT)

Forgotten Books Excerpt from Simple Test Procedure for Image-Based Biometric Verification Systems This report discusses a simple test method for image-based biometric verification systems. A fingerprint based computer login system is used as an example of the process used in this test method. Ideally the algorithmic part of these systems should be performed using standard reference data such as nist special database 24 [1] but it is still possible to test blackbox versions of systems where it is not possible to enter previously stored image data into the system. The procedure presented here allows such a system to be tested using manual input of the data and manual recording of results when no software interface to the system is provided. This test procedure also allows the effect of image quality of the input sensor to be evaluated in the typical working environment where the system is to be used. For the system tested here, the quality of the input image was found to be both important and highly user dependent. The trade-off between false positives and rejection of valid users was approximately as expected and as specified by the system manufacturer. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

BOOGARLISTS | DIRECTORY OF BIOMETRIC TECHNOLOGIES

BoogarLists

HANDBOOK OF RESEARCH ON SECURING CLOUD-BASED DATABASES WITH BIOMETRIC APPLICATIONS

IGI Global Cloud technologies have revolutionized the way we store information and perform various computing tasks. With the rise of this new technology, the ability to secure information stored on the cloud becomes a concern. The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques. Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.

BIOMETRICS IN THE NEW WORLD

THE CLOUD, MOBILE TECHNOLOGY AND PERVASIVE IDENTITY

Springer Science & Business Media This book takes a fresh look at biometrics and identity management, extending the dialogue beyond technical considerations, and exploring some of the broader societal and philosophical aspects surrounding the use of biometric applications. Features: presents a brief history of the development of biometrics, and describes some of the popularly held misconceptions surrounding the technology; investigates the challenges and possibilities of biometrics across third party infrastructures and on mobile computing devices; provides guidance on biometric systems design; explores the mechanisms necessary to enable identity intelligence, including logging mechanisms, data communications and data formats; discusses such usage issues as collaboration frameworks, and messaging and data translation; examines the impact of biometric technologies on society, covering issues of privacy and user factors; reviews the current situation in identity management, and predicts where these trends may take us in the future.

TECHNOLOGY ASSESSMENT

USING BIOMETRICS FOR BORDER SECURITY

BIOMETRIC TECHNOLOGY

AUTHENTICATION, BIOCRYPTOGRAPHY, AND CLOUD-BASED ARCHITECTURE

CRC Press Most biometric books are either extraordinarily technical for technophiles or extremely elementary for the lay person. Striking a balance between the two, Biometric Technology: Authentication, Biocryptography, and Cloud-Based Architecture is ideal for business, IT, or security managers that are faced with the task of making purchasing, migration, o

EMERGING TRENDS IN INFORMATION TECHNOLOGY

Nirali Prakashan

GUIDE TO BIOMETRIC REFERENCE SYSTEMS AND PERFORMANCE EVALUATION

Springer Science & Business Media Biometrics has moved from using fingerprints to using many methods of assessing human physical and behavioral traits. This guide introduces a new performance evaluation framework designed to offer full coverage of performance evaluation of biometric systems.

ADOPTING BIOMETRIC TECHNOLOGY

CHALLENGES AND SOLUTIONS

CRC Press Many types of security technologies are currently in use, with biometrics being one of the latest and most cutting-edge forms that has been produced for mass application. Biometrics, while intriguing, is often broached with hesitation and poor

understanding. Adopting Biometric Technology: Challenges and Solutions advocates increased implementation of biometric technology areas of the world where it has been least accepted, particularly in the United States. This book looks at several specific applications of biometric technology, challenging issues that have obstructed the use of biometrics in security and offering realistic solutions for increasing its worldwide utilization. It is divided into three sections, with the first discussing societal barriers against the adoption of biometric technology in security. The second section presents case studies of specific applications, such as e-passports and e-voting, that have already been implemented and could be expanded into regions where usage is low. The third section lays out a case for the general practicality and value that biometrics offers to relevant business sectors, including the benefits of implementing the currently controversial technology in place of the conventional forms of verification. While biometric technology has been poorly accepted and adopted in the United States as well as other developed nations, it is already a popular tool in developing nations in Asia, Africa, and Eastern Europe. Adopting Biometric Technology examines the societal resistance hindering the broader usage of biometrics and provides practical solutions for overcoming those barriers while showing how its increased application would be overall advantageous.

HANDBOOK OF EID SECURITY

CONCEPTS, PRACTICAL EXPERIENCES, TECHNOLOGIES

John Wiley & Sons In the forthcoming years, citizens of many countries will be provided with electronic identity cards. eID solutions may not only be used for passports, but also for communication with government authorities or local administrations, as well as for secure personal identification and access control in e-business. Further eID applications will be implemented in the healthcare sector. For some of these solutions we will not need a physical data carrier at all. The Handbook of eID Security is the first source presenting a comprehensive overview of this strongly discussed topic. It provides profound information on the following questions: - Which are the latest concepts, technical approaches, applications and trends in the field of eID? - Which areas of application are covered by the different eID concepts? - Which security mechanisms are used, for what reasons, and how can their reliability be ensured? - How will the security of personal data be guaranteed? This book is a perfect source of information for all persons working in industry, banking, healthcare, research institutes, administrations and public authorities: - who are involved in the development of eID application concepts, technical solutions, and of devices used for transfer and read out data to and from eIDs, - who have or will have to do with eID applications in their daily work, and - who participate in informing and discussing about the security and transparency of eID solutions.

INFORMATION SYSTEMS AND TECHNOLOGIES TO SUPPORT LEARNING

PROCEEDINGS OF EMENA-ISTL 2018

Springer This book features a selection of articles from the second edition of the conference Europe Middle East & North Africa Information Systems and Technologies to Support Learning 2018 (EMENA-ISTL'18), held in Fez, Morocco between 25th and 27th October 2018. EMENA-ISTL'18 was a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and challenges in information systems & technologies to support learning. The main topics covered are: A) information systems technologies to support education; B) education in science, technology, engineering and Mathematics; C) emerging technologies in education learning innovation in the digital age; D) software systems, architectures, applications and tools; E) multimedia systems and applications; F) computer communications and networks; G) IOT, smart cities and people, wireless, sensor and ad-hoc networks; H) organizational models and information systems and technologies; I) human-computer Interaction; J) computers & security, ethics and data-forensic; K) health informatics, and medical informatics security; l) information and knowledge management; m) big data analytics and applications, intelligent data systems, and machine learning; n) artificial intelligence, high performance computing; o) mobile, embedded and ubiquitous systems; p) language and image processing, computer graphics and vision; and q) the interdisciplinary field of fuzzy logic and data mining.

INFORMATION TECHNOLOGY ISSUES & CHALLENGES

Excel Books India

BIOMETRICS 100 MOST ASKED QUESTIONS ON PHYSIOLOGICAL (FACE, FINGERPRINT, HAND, IRIS, DNA) AND BEHAVIORAL (KEYSTROKE, SIGNATURE, VOICE) BIOMETRICS TECHNOLOGIES, VERIFICATION SYSTEMS, DESIGN, IMPLEMENTATION AND PERFORMANCE EVALUATION

Emereo Pty Limited Biometric verification systems offer a radical alternative to passports, PIN numbers, ID cards and driving licences. It uses physiological or behavioral characteristics such as fingerprints, hand geometry, and retinas to check a persons identity. This is the first book to provide an easy-to-read explanation of the technical aspects of biometric systems. This book explains the foundations of how biometrics technology work. Several technologies involving scanning and analyzing unique body characteristics and matching them against information stored in a database are covered. This book is a complete introduction guide that covers the details, principles, methods, and technologies of biometric security systems. It explains the practical applications and covers a number of topics critical for successful biometrics security implementation. These include recognition accuracy, processing speed, intrinsic and system security, privacy and legal requirements, and user acceptance. This book will be an invaluable read for practitioners, managers and IT personnel - in fact for anyone considering, or involved in, implementing a biometric system. Security and financial administrators, computer science professionals, and biometric systems developers will all benefit from an enhanced understanding of this important technology. If you are considering making biometrics a part of your overall security plan this hands-on guide will be very helpful to you.

BIOMETRICS

IDENTITY VERIFICATION IN A NETWORKED WORLD

Turtleback An insight into the biometric industry and the steps for successful deployment Biometrics technologies verify identity through characteristics such as fingerprints, voices, and faces. By providing increased security and convenience, biometrics have begun to see widespread deployment in network, e-commerce, and retail applications. This book provides in-depth analysis of biometrics as a solution for authenticating employees and customers. Leading authority, Samir Nanavati explores privacy, security, accuracy, system design, user perceptions, and lessons learned in biometric deployments. He also assesses the real-world strengths and weaknesses of leading biometric technologies: finger-scan, iris-scan, facial-scan, voice-scan, and signature-scan. This accessible book is a necessary step in understanding and implementing biometrics. Demystifies the complex world of optical networks for IT and business managers Over the past few years, the cost of fiber optic networking has decreased, making it the best solution for providing virtually unlimited bandwidth for corporate LANs and WANs, metropolitan networks, Internet access, and broadband to the home. The only strategic book on optical networking technologies written from a real-world business perspective, Optical Networking demystifies complex fiber technologies for managers, and details the practical business benefits an optical network can offer. Debra Cameron explores established and emerging markets for optical networks as well as the enabling technologies, applications, network architectures, key deployment issues, and cost considerations. She also provides in-depth case studies of optical networks now in use in the UnitedStates and abroad.

BIOMETRIC SYSTEMS

DESIGN AND APPLICATIONS

BoD – Books on Demand Biometric authentication has been widely used for access control and security systems over the past few years. The purpose of this book is to provide the readers with life cycle of different biometric authentication systems – from their design and development to qualification and final application. The major systems discussed in this book include fingerprint identification, face recognition, iris segmentation and classification, signature verification and other miscellaneous systems which describe management policies of biometrics, reliability measures, pressure based typing and signature verification, bio-chemical systems and behavioral characteristics. In summary, this book provides the students and the researchers with different approaches to develop biometric authentication systems and at the same time includes state-of-the-art approaches in their design and development. The approaches have been thoroughly tested on standard databases and in real world applications.

ADVANCED TECHNOLOGIES IN ROBOTICS AND INTELLIGENT SYSTEMS

PROCEEDINGS OF ITR 2019

Springer Nature This volume gathers the latest advances, innovations, and applications in the field of intelligent systems such as robots, cyber-physical and embedded systems, as presented by leading international researchers and engineers at the International Conference on Intelligent Technologies in Robotics (ITR), held in Moscow, Russia on October 21-23, 2019. It covers highly diverse topics, including robotics, design and machining, control and dynamics, bio-inspired systems, Internet of Thing, Big Data, RFID technology, blockchain, trusted software, cyber-physical systems (CFS) security, development of CFS in manufacturing, protection of information in CFS, cybersecurity of CFS. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists, demonstrating that intelligent systems will drive the technological and societal change in the coming decades.

GUIDE TO BIOMETRICS

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.

CYBER SECURITY AND IT INFRASTRUCTURE PROTECTION

Syngress This book serves as a security practitioner's guide to today's most crucial issues in cyber security and IT infrastructure. It offers in-depth coverage of theory, technology, and practice as they relate to established technologies as well as recent advancements. It explores practical solutions to a wide range of cyber-physical and IT infrastructure protection issues. Composed of 11 chapters contributed by leading experts in their fields, this highly useful book covers disaster recovery, biometrics, homeland security, cyber warfare, cyber security, national infrastructure security, access controls, vulnerability assessments and audits, cryptography, and operational and organizational security, as well as an extensive glossary of security terms and acronyms. Written with instructors and students in mind, this book includes methods of analysis and problem-solving techniques through hands-on exercises and worked examples as well as questions and answers and the ability to implement practical solutions through real-life case studies. For example, the new format includes the following pedagogical elements: • Checklists throughout each chapter to gauge understanding • Chapter Review Questions/Exercises and Case Studies • Ancillaries: Solutions Manual; slide package; figure files This format will be attractive to universities and career schools as well as federal and state agencies, corporate security training programs, ASIS certification, etc. Chapters by leaders in the field on theory and practice of cyber security and IT infrastructure protection, allowing the reader to develop a new level of technical expertise Comprehensive and up-to-date coverage of cyber security issues allows the reader to remain current and fully informed from multiple viewpoints Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

SIMPLE TEST PROCEDURE FOR IMAGE-BASED BIOMETRIC VERIFICATION SYSTEMS

ADVANCEMENTS IN SMART CARD AND BIOMETRIC TECHNOLOGY

HEARING BEFORE THE SUBCOMMITTEE ON TECHNOLOGY, INFORMATION POLICY, INTERGOVERNMENTAL RELATIONS AND THE CENSUS OF THE COMMITTEE ON GOVERNMENT REFORM, HOUSE OF REPRESENTATIVES, ONE HUNDRED EIGHTH CONGRESS, FIRST SESSION, SEPTEMBER 9, 2003

DEPARTMENT OF HOMELAND SECURITY APPROPRIATIONS FOR 2010, PART 2, 2009, 111-1 HEARINGS, *

AUTOMATED BIOMETRICS

TECHNOLOGIES AND SYSTEMS

Springer Science & Business Media Biometrics-based authentication and identification are emerging as the most reliable method to authenticate and identify individuals. Biometrics requires that the person to be identified be physically present at the point-of-identification and relies on `something which you are or you do' to provide better security, increased efficiency, and improved accuracy. Automated biometrics deals with physiological or behavioral characteristics such as fingerprints, signature, palmprint, iris, hand, voice and face that can be used to authenticate a person's identity or establish an identity from a database. With rapid progress in electronic and Internet commerce, there is also a growing need to authenticate the identity of a person for secure transaction processing. Designing an automated biometrics system to handle large population identification, accuracy and reliability of authentication are challenging tasks. Currently, there are over ten different biometrics systems that are either widely used or under development. Some automated biometrics, such as fingerprint identification and speaker verification, have received considerable attention over the past 25 years, and some issues like face recognition and iris-based authentication have been studied extensively resulting in successful development of biometrics systems in commercial applications. However, very few books are exclusively devoted to such issues of automated biometrics. Automated Biometrics: Technologies and Systems systematically introduces the technologies and systems, and explores how to design the corresponding systems with in-depth discussion. The issues addressed in this book are highly relevant to many fundamental concerns of both researchers and practitioners of automated biometrics in computer and system security.

BIOMETRICS IN IDENTITY MANAGEMENT

CONCEPTS TO APPLICATIONS

Artech House 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."

AUTOMATIC FINGERPRINT RECOGNITION SYSTEMS

Springer Science & Business Media An authoritative survey of intelligent fingerprint-recognition concepts, technology, and systems is given. Editors and contributors are the leading researchers and applied R&D developers of this personal identification (biometric

security) topic and technology. Biometrics and pattern recognition researchers and professionals will find the book an indispensable resource for current knowledge and technology in the field.

BIOMETRICS AND THE FUTURE OF MONEY

HEARING BEFORE THE SUBCOMMITTEE ON DOMESTIC AND INTERNATIONAL MONETARY POLICY OF THE COMMITTEE ON BANKING AND FINANCIAL SERVICES, U.S. HOUSE OF REPRESENTATIVES, ONE HUNDRED FIFTH CONGRESS, SECOND SESSION, MAY 20, 1998