

Biometric

Jiankun Hu, David Chek Ling Ngo, Andrew Beng Jin Teoh

Handbook of Biometrics Anil K. Jain, Patrick Flynn, Arun A. Ross, 2007-10-23 Biometrics is a rapidly evolving field with applications ranging from accessing one's computer to gaining entry into a country. The deployment of large-scale biometric systems in both commercial and government applications has increased public awareness of this technology. Recent years have seen significant growth in biometric research resulting in the development of innovative sensors, new algorithms, enhanced test methodologies and novel applications. This book addresses this void by inviting some of the prominent researchers in Biometrics to contribute chapters describing the fundamentals as well as the latest innovations in their respective areas of expertise.

Biometrics N. V. Boulgouris, Konstantinos N. Plataniotis, Evangelia Micheli-Tzanakou, 2009-10-29 Edited by a panel of experts, this book fills a gap in the existing literature by comprehensively covering system, processing, and application aspects of biometrics, based on a wide variety of biometric traits. The book provides an extensive survey of biometrics theory, methods, and applications, making it an indispensable source of information for researchers, security experts, policy makers, engineers, practitioners, and graduate students. The book's wide and in-depth coverage of biometrics enables readers to build a strong, fundamental understanding of theory and methods, and provides a foundation for solutions to many of today's most interesting and challenging biometric problems. Biometric traits covered: Face, Fingerprint, Iris, Gait, Hand Geometry, Signature, Electrocardiogram (ECG), Electroencephalogram (EEG), physiological biometrics. Theory, Methods and Applications covered: Multilinear Discriminant Analysis, Neural Networks for biometrics, classifier design, biometric fusion, Event-Related Potentials, person-specific characteristic feature selection, image and video-based face, recognition/verification, near-infrared face recognition, elastic graph matching, super-resolution of facial images, multimodal solutions, 3D approaches to biometrics, facial aging models for recognition, information theory approaches to biometrics, biologically-inspired methods, biometric encryption, decision-making support in biometric systems, privacy in biometrics.

Introduction to Biometrics Anil K. Jain, Arun A. Ross, Karthik Nandakumar, 2011-11-18 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.

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!

Biometric Technologies and Verification Systems John R. Vacca, 2007-03-16 *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

Adopting Biometric Technology Ravindra Das, 2017-11-22 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.

Security and Privacy in Biometrics Patrizio Campisi, 2013-06-28 This important text/reference presents the latest secure and privacy-compliant techniques in automatic human recognition. Featuring viewpoints from an international selection of experts in the field, the comprehensive coverage spans both theory and practical implementations, taking into consideration all ethical and legal issues. Topics and features: presents a unique focus on novel approaches and new architectures for unimodal and multimodal template protection; examines signal processing techniques in the encrypted domain, security and privacy leakage assessment, and aspects of standardization; describes real-world applications, from face and fingerprint-based user recognition, to biometrics-based electronic documents, and biometric systems employing smart cards; reviews the ethical implications of the ubiquity of biometrics in everyday life, and its impact on human dignity; provides guidance on best practices for the processing of biometric data within a legal framework.

Biometric Technology Mark Lockie, 2009-01-01 Examines ways in which an individual's identity can be verified, different ways this information can be used, and some issues concerning limitations and abuse of the technology.

Biometric Security Jiankun Hu, David Chek Ling Ngo, Andrew Beng Jin Teoh, 2015-02-05 Modern biometrics delivers an enhanced level of security by means of a "proof of property". The design and deployment of a biometric system, however, hide many pitfalls, which, when underestimated, can lead to major security weaknesses and privacy threats. Issues of concern include biometric identity theft and privacy invasion because of the strong connection between a user and his identity. This book showcases a collection of comprehensive references on the advances of biometric security technology. It compiles a total of fourteen articles, all contributed by thirty-two eminent researchers in the field, thus providing concise and accessible coverage of not only general issues, but also state-of-the-art solutions. The book is divided into five parts: (1) Biometric Template Protection, which covers cancellable biometrics and parameter management protocol; (2) Biometric Key and Encryption, focusing on biometric key generation and visual biometric cryptography; (3) Biometric Systems Analysis, dealing with biometric system security, and privacy evaluation and assessment; (4) Privacy-Enhanced Biometric Systems, covering privacy-enhanced biometric system protocol design and implementation; and (5) Other Biometric Security Technologies. The book will be of particular interest to researchers, scholars, graduate students, engineers, practitioners and developers interested in security and privacy-related issues in biometric systems. It will also be attractive to managers of various organizations with strong security needs.

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.

Biometrics Samir Nanavati, Michael Thieme, Raj Nanavati, 2002-04-29 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 United States and abroad.

Biometric System and Data Analysis Ted Dunstone, Neil Yager, 2008-10-31 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 Solutions David D. Zhang, 2012-12-06 *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.

Guide to Biometrics for Large-Scale Systems Julian Ashbourn, 2011-04-11 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.

Securing Biometrics Applications Charles A. Shoniregun, Stephen Crosier, 2008-03-06 Biometrics is becoming increasingly common in establishments that require high security such as state security and financial sectors. The increased threat to national security by terrorists has led to the explosive popularity of biometrics. Biometric devices are now available to capture biometric measurements such as fingerprints, palm, retinal scans, keystroke, voice recognition and facial scanning. However, the accuracy of these measurements varies, which has a direct relevance on the levels of security they offer. With the need to combat the problems related to identify theft and other security issues, society will have to compromise between security and personal freedoms. *Securing Biometrics Applications* investigates and identifies key impacts of biometric security applications, while discovering opportunities and challenges presented by the biometric technologies available.

Biometrics in a Data Driven World Sinjini Mitra, Mikhail Gofman, 2016-12-01 *Biometrics in a Data Driven World: Trends, Technologies, and Challenges* aims to inform readers about the modern applications of biometrics in the context of a data-driven society, to familiarize them with the rich history of biometrics, and to provide them with a glimpse into the future of biometrics. The first section of the book discusses the fundamentals of biometrics and provides an overview of common biometric modalities, namely face, fingerprints, iris, and voice. It also discusses the history of the field, and provides an overview of emerging trends and opportunities. The second section of the book introduces readers to a wide range of biometric applications. The next part of the book is dedicated to the discussion of case studies of biometric modalities currently used on mobile applications. As smartphones and tablet computers are rapidly becoming the dominant consumer computer platforms, biometrics-based authentication is emerging as an integral part of protecting mobile devices against unauthorized access, while enabling new and highly popular applications, such as secure online payment authorization. The book concludes with a discussion of future trends and opportunities in the field of biometrics, which will pave the way for advancing research in the area of biometrics, and for the deployment of biometric technologies in real-world applications. The book is designed for individuals interested in exploring the contemporary applications of biometrics, from students to researchers and practitioners working in this field. Both undergraduate and graduate students enrolled in college-level security courses will also find this book to be an especially useful companion.

Biometric Systems James L. Wayman, Anil K. Jain, Davide Maltoni, Dario Maio, 2005-12-06 *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.

Biometrics in the New World Julian Ashbourn, 2014-02-18 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.

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.

Biometric Security Systems for Beginner Manish Mahant Manikpuri, 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.

The Top Books of the Year Biometric The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Biometric : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who

defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Biometric : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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