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Patrick Flynn
Arun A. Ross
Editors

Handbook of Biometrics

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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

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Handbook of Biometrics for Forensic Science Massimo Tistarelli,Christophe Champod,2017-02-01 This comprehensive handbook addresses the sophisticated forensic threats and challenges that have arisen in the modern digital age and reviews the new computing solutions that have been proposed to tackle them These include identity related scenarios which cannot be solved with traditional approaches such as attacks on security systems and the identification of abnormal dangerous behaviors from remote cameras Features provides an in depth analysis of the state of the art together with a broad review of the available technologies and their potential applications discusses potential future developments in the adoption of advanced technologies for the automated or semi automated analysis of forensic traces presents a particular focus on the acquisition and processing of data from real world forensic cases offers an holistic perspective integrating work from different research institutions and combining viewpoints from both biometric technologies and forensic science

Handbook of Biometric Anti-Spoofing Sébastien Marcel,Mark S. Nixon,Stan Z. Li,2014-07-17 Presenting the first definitive study of the subject this Handbook of Biometric Anti Spoofing reviews the state of the art in covert attacks against biometric systems and in deriving countermeasures to these attacks Topics and features provides a detailed introduction to the field of biometric anti spoofing and a thorough review of the associated literature examines spoofing attacks against five biometric modalities namely fingerprints face iris speaker and gait discusses anti spoofing measures for multi model biometric systems reviews evaluation methodologies international standards and legal and ethical issues describes current challenges and suggests directions for future research presents the latest work from a global selection of experts in the field including members of the TABULA RASA project

Encyclopedia of

Biometrics Stan Z. Li, 2009-08-27 With an A Z format this encyclopedia provides easy access to relevant information on all aspects of biometrics It features approximately 250 overview entries and 800 definitional entries Each entry includes a definition key words list of synonyms list of related entries illustration s applications and a bibliography Most entries include useful literature references providing the reader with a portal to more detailed information **Handbook of Fingerprint**

Recognition Davide Maltoni, Dario Maio, Anil K. Jain, Jianjiang Feng, 2022-07-04 A major new professional reference work on fingerprint security systems and technology from leading international researchers in the field Handbook provides authoritative and comprehensive coverage of all major topics concepts and methods for fingerprint security systems This unique reference work is an absolutely essential resource for all biometric security professionals researchers and systems administrators **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

Handbook of Multibiometrics Arun A. Ross, Karthik Nandakumar, Anil K. Jain, 2006-08-11 Details multimodal biometrics and its exceptional utility for increasingly reliable human recognition systems Reveals the substantial advantages of multimodal systems over conventional identification methods **Guide to Biometric Reference Systems and**

Performance Evaluation Dijana Petrovska-Delacrétaz, Gérard Chollet, Bernadette Dorizzi, 2009-04-05 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

Handbook of Research on Securing Cloud-Based Databases with Biometric Applications Deka, Ganesh Chandra, 2014-10-31 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

Handbook of Remote Biometrics Massimo Tistarelli, Stan Z. Li, Rama Chellappa, 2009-06-02 The development of technologies for the identification of individuals has driven the interest and curiosity of many people Spearheaded and inspired by the Bertillon coding system for the classification of humans based on physical measurements scientists and engineers have been trying to invent new devices and classification 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 flagship activity of the IAPR Technical Committee on Biometrics IAPR TC4 The last four chapters of the book are derived from some of the best presentations 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

The Practitioner's Guide to Biometrics William Sloan Coats, 2007 Biometrics is the most accurate form of identifiers and when used properly can greatly simplify life However biometrics raise new questions about personal privacy surveillance and the effects of government and corporate databases that register and hold fingerprint data and other biometric information This book covers such topics as ID cards data theft authentication and digital rights management

[Handbook of Vascular Biometrics](#) Andreas Uhl, Christoph Busch, Sébastien Marcel, Raymond Veldhuis, 2019-11-14 This open access handbook provides the first comprehensive overview of biometrics exploiting the shape of human blood vessels for biometric recognition i.e. vascular biometrics including finger vein recognition hand palm vein recognition retina recognition and sclera recognition After an introductory chapter summarizing the state of the art in and availability of commercial systems and open datasets open source software individual chapters focus on specific aspects of one of the biometric modalities including questions of usability security and privacy The book features contributions from both academia and major industrial manufacturers

Computer Security Handbook, Set Seymour Bosworth, M. E. Kabay, Eric Whyne, 2012-07-18 The classic and authoritative reference in the field of computer security now completely updated and revised With the continued presence of large scale computers the proliferation of desktop laptop and handheld computers and the vast international networks that interconnect them the nature and extent of threats to computer security have grown enormously Now in its fifth edition Computer Security Handbook continues to

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Biometrics: A Very Short Introduction Michael Fairhurst, 2018-11-15 We live in a society which is increasingly interconnected in which communication between individuals is mostly mediated via some electronic platform and transactions are often carried out remotely In such a world traditional notions of trust and confidence in the identity of those with whom we are interacting taken for granted in the past can be much less reliable Biometrics the scientific discipline of identifying individuals by means of the measurement of unique personal attributes provides a reliable means of establishing or confirming an individual's identity These attributes include facial appearance fingerprints iris patterning the voice the way we write or even the way we walk The new technologies of biometrics have a wide range of practical applications from securing mobile phones and laptops to establishing identity in bank transactions travel documents and national identity cards This Very Short Introduction considers the capabilities of biometrics based identity checking from first principles to the practicalities of using different types of identification data Michael Fairhurst looks at the basic techniques in use today ongoing developments in system design and emerging technologies all aimed at improving precision in identification and providing solutions to an increasingly wide range of practical problems Considering how they may continue to develop in the future Fairhurst explores the benefits and limitations of these pervasive and powerful technologies and how they can effectively support our increasingly interconnected society

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many different social contexts provides viewpoints from researchers in government industry and academia highlighting how iris recognition is both a thriving industry and an active research area surveys previous developments in the field and covers topics ranging from the low level e.g physics of iris image acquisition to the high level e.g alternative non Daugman approaches to iris matching introduces many active and open areas of research in iris recognition including cross wavelength matching and iris template aging This book is an essential resource for anyone wishing to improve their understanding of iris recognition technology

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

Handbook of Iris Recognition Kevin W. Bowyer, Mark J. Burge, 2016-07-28 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

Recent Innovations in Computing Pradeep Kumar Singh, Yashwant Singh, Maheshkumar H. Kolekar, Arpan Kumar Kar, Jitender Kumar Chhabra, Abhijit Sen, 2021-01-12 This book features selected papers presented at the 3rd International Conference on Recent Innovations in Computing ICRIC 2020 held on 20-21 March 2020 at the Central University of Jammu India and organized by the university's Department of Computer Science Information Technology It includes the latest research in the areas of software engineering cloud computing computer networks and Internet technologies artificial intelligence information security database and distributed computing and digital India

Handbook of Surveillance Technologies J.K. Petersen, Pamela Taylor, 2012-01-23 From officially sanctioned high tech operations to budget spy cameras and cell phone video this updated and expanded

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