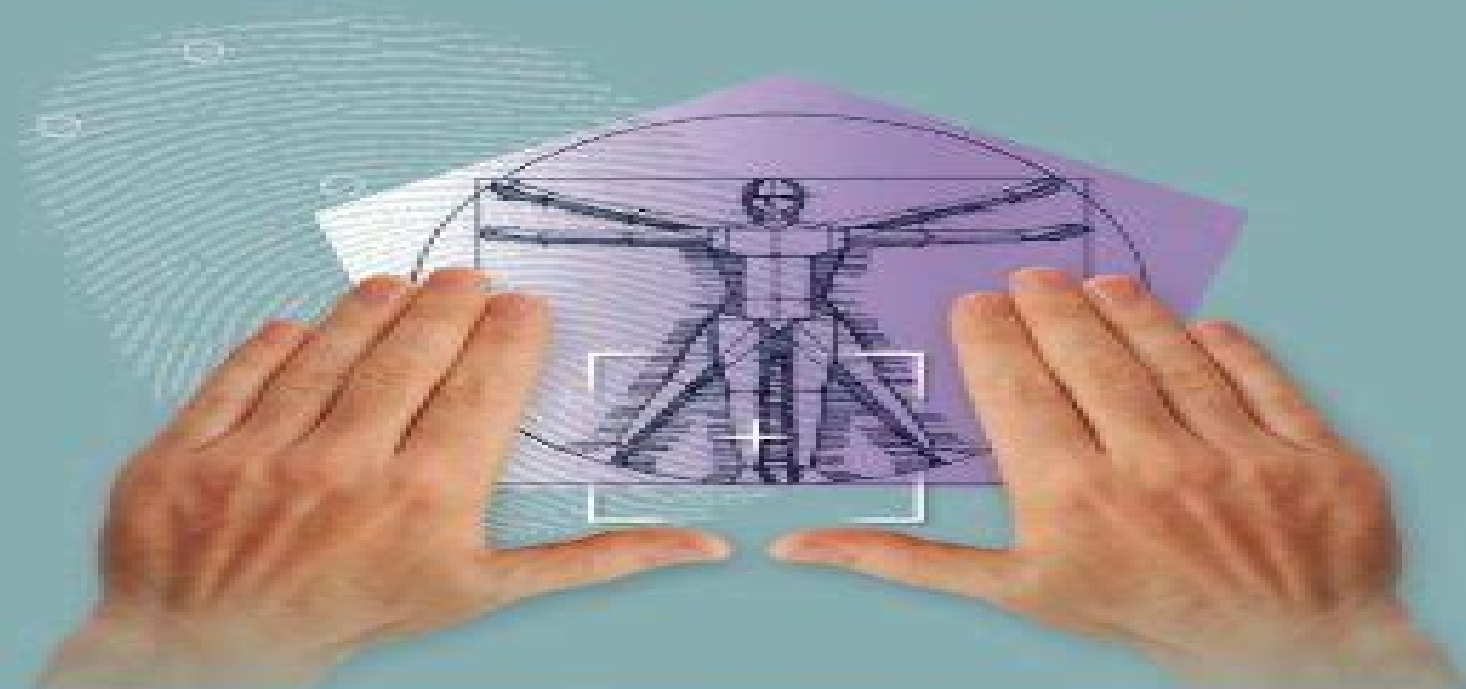# ARMY BIOMETRIC APPLICATIONS

Identifying and Addressing
Sociocultural Concerns

John D. Woodward, Jr., Katharine W. Webb, Elaine M. Newton, Melissa Bradley, David Rubenson

Army Biometric Applications Identifying And Addressing Sociocultural Concerns

Camilla Rothe

Army Biometric Applications Identifying And Addressing Sociocultural Concerns:

    Army Biometric Applications John D. Woodward,Katharine Watkins Webb,Elaine M. Newton,Melissa A. Bradley,David Rubenson,2001-08-20 Every human possesses more than one virtually infallible form of identification Known as biometrics examples include fingerprints iris and retinal scans hand geometry and other measures of physical characteristics and personal traits Advances in computers and related technologies have made this a highly automated process through which recognition occurs almost instantaneously With concern about its information assurance systems and physical access control increasing the Army has undertaken an assessment of how it can use biometrics to improve security efficiency and convenience This report examines the sociocultural concerns that arise among soldiers civilian employees and the general public when the military mandates widespread use of biometrics The authors see no significant legal obstacles to Army use of biometrics but recommend that the Army go beyond the provisions of the Privacy Act of 1974 to allay concerns related to this emerging technology This report should be of interest to those responsible for access control as well as anyone concerned about privacy and technology issues *Army Biometric Applications. Identifying and Addressing Sociocultural Concerns* ,2001 The U S Army has a growing need to control access to its systems in times of both war and peace In wartime the Army s dependence on information as a tactical and strategic asset requires the Army to carefully control its battlefield networks From logistics flows to intelligence on enemy forces the Army depends on confining access to its data to authorized personnel This need for access control is also critical at the weapon system level Access control issues are important to the peacetime Army because improving the efficiency of peacetime operations including controlling access to facilities computer systems and classified information depends on fast and accurate identification The Army also operates a vast set of human resource services involving health care retiree and dependent benefits and troop support services These services create the need for positive identification to prevent fraud and abuse *Army Biometric Applications. Identifying and Addressing Sociocultural Concerns* ,2001 The U S Army has a growing need to control access to its systems in times of both war and peace In wartime the Army s dependence on information as a tactical and strategic asset requires the Army to carefully control its battlefield networks From logistics flows to intelligence on enemy forces the Army depends on confining access to its data to authorized personnel This need for access control is also critical at the weapon system level Access control issues are important to the peacetime Army because improving the efficiency of peacetime operations including controlling access to facilities computer systems and classified information depends on fast and accurate identification The Army also operates a vast set of human resource services involving health care retiree and dependent benefits and troop support services These services create the need for positive identification to prevent fraud and abuse **Global Surveillance and Policing** Elia Zureik,Mark Salter,2013-01-11 Policing and surveillance acoss international borders has been of increasing concern since the 9 11 attacks in North America and the accession of the Schengen Accord in Europe This book brings together leading authorities in the

field to discuss both theoretical and empirical aspects of the way in which modern states attempt to control their borders and a mobile population   Privacy and Data Protection Issues of Biometric Applications Els J. Kindt,2013-12-05 This book discusses all critical privacy and data protection aspects of biometric systems from a legal perspective It contains a systematic and complete analysis of the many issues raised by these systems based on examples worldwide and provides several recommendations for a transnational regulatory framework An appropriate legal framework is in most countries not yet in place Biometric systems use facial images fingerprints iris and or voice in an automated way to identify or to verify identity claims of persons The treatise which has an interdisciplinary approach starts with explaining the functioning of biometric systems in general terms for non specialists It continues with a description of the legal nature of biometric data and makes a comparison with DNA and biological material and the regulation thereof After describing the risks the work further reviews the opinions of data protection authorities in relation to biometric systems and current and future EU law A detailed legal comparative analysis is made of the situation in Belgium France and the Netherlands The author concludes with an evaluation of the proportionality principle and the application of data protection law to biometric data processing operations mainly in the private sector Pleading for more safeguards in legislation the author makes several suggestions for a regulatory framework aiming at reducing the risks of biometric systems They include limitations to the collection and storage of biometric data as well as technical measures which could influence the proportionality of the processing The text is supported by several figures and tables providing a summary of particular points of the discussion The book also uses the 2012 biometric vocabulary adopted by ISO and contains an extensive bibliography and literature sources   Innovative Automatic Identification and Location-Based Services: From Bar Codes to Chip Implants Michael, Katina,Michael, M.G.,2009-03-31 This book emphasizes the convergence and trajectory of automatic identification and location based services toward chip implants and real time positioning capabilities Provided by publisher   Privacy and Technologies of Identity Katherine J. Strandburg,Daniela Stan Raicu,2005-12-12 Privacy and Technologies of Identity A Cross Disciplinary Conversation provides an overview of ways in which technological changes raise privacy concerns It then addresses four major areas of technology RFID and location tracking technology biometric technology data mining and issues with anonymity and authentication of identity Many of the chapters are written with the non specialist in mind seeking to educate a diverse audience on the basics of the technology and the law and to point out the promise and perils of each technology for privacy The material in this book provides an interface between legal and policy approaches to privacy and technologies that either threaten or enhance privacy This book grew out of the Fall 2004 CIPLIT r Symposium on Privacy and Identity The Promise and Perils of a Technological Age co sponsored by DePaul University s College of Law and School of Computer Science Telecommunications and Information Systems The Symposium brought together leading researchers in advanced technology and leading thinkers from the law and policy arenas many of whom have contributed chapters to the book Like

the Symposium the book seeks to contribute to a conversation among technologists lawyers and policymakers about how best to handle the challenges to privacy that arise from recent technological advances **The United States Army** George D. Bennett,2002 United States Army Issues Background Bibliography **Machine Learning Techniques for Gait Biometric Recognition** James Eric Mason,Issa Traoré,Isaac Woungang,2016-02-04 This book focuses on how machine learning techniques can be used to analyze and make use of one particular category of behavioral biometrics known as the gait biometric A comprehensive Ground Reaction Force GRF based Gait Biometrics Recognition framework is proposed and validated by experiments In addition an in depth analysis of existing recognition techniques that are best suited for performing footstep GRF based person recognition is also proposed as well as a comparison of feature extractors normalizers and classifiers configurations that were never directly compared with one another in any previous GRF recognition research Finally a detailed theoretical overview of many existing machine learning techniques is presented leading to a proposal of two novel data processing techniques developed specifically for the purpose of gait biometric recognition using GRF This book introduces novel machine learning based temporal normalization techniques bridges research gaps concerning the effect of footwear and stepping speed on footstep GRF based person recognition provides detailed discussions of key research challenges and open research issues in gait biometrics recognition compares biometrics systems trained and tested with the same footwear against those trained and tested with different footwear *The Economics of Financial and Medical Identity Theft* L. Jean Camp,M. Eric Johnson,2012-03-21 Financial identity theft is well understood with clear underlying motives Medical identity theft is new and presents a growing problem The solutions to both problems however are less clear The Economics of Financial and Medical Identity Theft discusses how the digital networked environment is critically different from the world of paper eyeballs and pens Many of the effective identity protections are embedded behind the eyeballs where the presumably passive observer is actually a fairly keen student of human behavior The emergence of medical identity theft and the implications of medical data privacy are described in the second section of this book The Economics of Financial and Medical Identity Theft also presents an overview of the current technology for identity management The book closes with a series of vignettes in the last chapter looking at the risks we may see in the future and how these risks can be mitigated or avoided **Precision livestock farming** Sidney Cox,2023-08-28 Precision Livestock presents the latest scientific results from worldwide research field studies and practical application The book contains peer reviewed papers that were presented at the 1st European Conference on Precision Livestock Farming The papers focus on physiological identification and monitoring of animals on farm and in transit and on the operation of automatic milking systems Major objectives are secure methods of animal identification for traceability animal welfare and hygiene The economic and health effects of implementing precision livestock husbandry are featured in many of them This first conference was held in parallel with the 4th European Conference on Precision Agriculture the links between both technologies were drawn and the possible interactions between

them were shown for the first time The potential is to integrate both technologies to encompass the whole farm Peer reviewed papers from the Precision Agriculture conference are presented in a companion proceedings Precision Agriculture

   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   The New Media of Surveillance Shoshana Magnet,Kelly Gates,2013-09-13 The spread of new surveillance technologies is an issue of major concern for democratic societies More ubiquitous and sophisticated monitoring techniques raise profound questions for the very possibility of individual autonomy and democratic government Innovations in surveillance systems require equally innovative approaches for analyzing their social and political implications and the field of critical communication studies is uniquely equipped to provide fresh insights This book brings together the work of a number of critical communication scholars who take innovative approaches to examining the surveillance dimensions of new media technologies The essays included in this volume focus on interactive networks computer generated imagery biometrics and intelligent transport systems as sites where communication and surveillance have become virtually inseparable social processes This book was originally published as a special issue of The Communication Review   **Biometrics for Network Security** Paul Reid,2004 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   Modelling and Implementation of Complex Systems Salim Chikhi,Abdelmalek Amine,Allaoua Chaoui,Djamel Eddine Saidouni,2018-11-29 This book presents the proceedings of the fifth International Symposium on Modelling and Implementation of Complex Systems MISC 2018 The event was held in Laghouat Algeria on December 16 18 2018 The 25 papers gathered here have been selected from 109 submissions using a strict peer review process and address a range of topics concerning the theory and applications of networking and distributed computing including cloud computing and the IoT metaheuristics and optimization computational intelligence software engineering and formal methods   *Artificial Intelligence for a Sustainable Industry 4.0* Shashank Awasthi,Carlos M. Travieso-González,Goutam Sanyal,Dinesh Kumar Singh,2021-10-21 This book outlines the recent advancements in the field of artificial intelligence AI and addresses how useful it is in achieving truly sustainable solutions The book also serves as a useful reference literature in developing sustainable engineering solutions to various social and techno commercial issues of global significance This book is organized into two sections section 1 is

focused on fundamentals and principles of AI to lay the groundwork for the second section Section 2 explores the sustainable engineering solutions development using AI which addresses challenges in various computing techniques and opportunities in engineering design for sustainable development using IoT AI and smart cities Applications include waste minimization re manufacturing reuse and recycling technologies using IoT AI Industry 4 0 intelligent and smart grid systems energy conservation using technology and robotic process automation RPA The book is ideal for the engineers researchers and students interested in how AI can aid in sustainable development applications **Economics of Identity Theft** L. Jean Camp,2007-08-23 This professional book discusses privacy as multi dimensional and then pulls forward the economics of privacy in the first few chapters This book also includes identity based signatures spyware and placing biometric security in an economically broken system which results in a broken biometric system The last chapters include systematic problems with practical individual strategies for preventing identity theft for any reader of any economic status While a plethora of books on identity theft exists this book combines both technical and economic aspects presented from the perspective of the identified individual *The Practical Handbook of Internet Computing* Munindar P. Singh,2004-09-29 The Practical Handbook of Internet Computing analyzes a broad array of technologies and concerns related to the Internet including corporate intranets Fresh and insightful articles by recognized experts address the key challenges facing Internet users designers integrators and policymakers In addition to discussing major applications it also covers the architectures enabling technologies software utilities and engineering techniques that are necessary to conduct distributed computing and take advantage of Web based services The Handbook provides practical advice based upon experience standards and theory It examines all aspects of Internet computing in wide area and enterprise settings ranging from innovative applications to systems and utilities enabling technologies and engineering and management Content includes articles that explore the components that make Internet computing work including storage servers and other systems and utilities Additional articles examine the technologies and structures that support the Internet such as directory services agents and policies The volume also discusses the multidimensional aspects of Internet applications including mobility collaboration and pervasive computing It concludes with an examination of the Internet as a holistic entity with considerations of privacy and law combined with technical content Applied Cryptography for Cyber Security and Defense: Information Encryption and Cyphering Nemati, Hamid R.,Yang, Li,2010-08-31 Applied Cryptography for Cyber Security and Defense Information Encryption and Cyphering applies the principles of cryptographic systems to real world scenarios explaining how cryptography can protect businesses information and ensure privacy for their networks and databases It delves into the specific security requirements within various emerging application areas and discusses procedures for engineering cryptography into system design and implementation **The Global Technology Revolution 2020, Executive Summary** Richard Silberglitt,Philip S. Anton,David R. Howell,Anny Wong,2006-06-07 In 2020 areas of particular importance for technology trends will include

biotechnology nanotechnology materials technology and information technology The authors of this report assessed a sample of 29 countries across the spectrum of scientific advancement low to high with respect to their ability to acquire and implement 16 key technology applications e g cheap solar energy rural wireless communications genetically modified crops

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Army Biometric Applications Identifying And Addressing Sociocultural Concerns Introduction

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