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Biometric Systems

Technology, Design and
Performance Evaluation

 Springer

Biometric Systems Technology Design And Performance Evaluation

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Biometric Systems James L. Wayman, Anil K. Jain, Davide Maltoni, Dario Maio, 2005-09-20 *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 and 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.

Biometric Systems, 2005 **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. **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, applications, and a bibliography. Most entries include useful literature references providing the reader with a portal to more detailed information. *Multimodal Biometrics and Intelligent Image Processing for Security Systems* Gavrilova, Marina L., Monwar, Maruf, 2013-03-31 This book provides an in-depth description of existing and fresh fusion approaches for multimodal biometric systems covering relevant topics affecting the security and intelligent industries. Provided by publisher. **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.

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.

Recent Advances in Applied Thermal Imaging for Industrial Applications Santhi, V., 2017-03-16. Although the technological boom has resulted in many advancements in modern society it has also come with a few downfalls most notably the failure of new machines and equipment. This has prompted engineers to find suitable diagnostics tools to stop impending malfunctions and make working environments more efficient. *Recent Advances in Applied Thermal Imaging for Industrial Applications* is a critical reference source that outlines innovative analysis tools to combat systems failure in thermal imaging. Highlighting pertinent topics such as fuzzy c means technique, human health diagnosis, system multidimensional processing and optical analysis, this is an ideal resource for all engineers, practitioners, industry leaders and researchers who are interested in staying up to date with advances in thermal imaging which prevents industrial system malfunctions.

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 **Bio-Privacy** Nancy Liu, 2013-03-01 Bio Privacy Privacy Regulations and the Challenge of Biometrics provides an in depth consideration of the legal issues posed by the use of biometric technology Focusing particularly on the relationship between the use of this technology and the protection of privacy this book draws on material across a range of jurisdictions in order to explore several key questions What are the privacy issues in the biometric context How are these issues currently dealt with under the law What principles are applied Is the current regulation satisfactory Is it applied consistently And more generally what is the most appropriate way to deal with the legal implications of biometrics Offering an analysis and recommendations with a view to securing adequate human rights and personal data protection Bio Privacy Privacy Regulations and the Challenge of Biometrics will be an important reference point for those with interests in the tension between freedom and security

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