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Editors

Guide to **Biometric Reference Systems and Performance Evaluation**

 Springer

Guide To Biometric Reference Systems And Performance Evaluation

Sergey Yurish



Guide To Biometric Reference Systems And Performance Evaluation:

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 **Biometric Systems** Loris Nanni, Sheryl Brahnam, 2021-09-01 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

Vulnerabilities and Attack Protection in Security Systems Based on Biometric Recognition, New Trends and Developments in Biometrics Jucheng Yang, Shan Juan Xie, 2012-11-28 In recent years biometrics has developed rapidly with its worldwide applications for daily life New trends and novel developments have been proposed to acquire and process many different biometric traits The ignored challenges in the past and potential problems need to be thought together and deeply integrated The key objective of the book is to keep up with the new technologies on some recent theoretical development as well as new trends of applications in biometrics The topics covered in this book reflect well both aspects of development They include the new development in forensic speaker recognition 3D and thermo face recognition finger vein recognition contact less biometric system hand geometry recognition biometric performance evaluation multi biometric template protection and novel subfields in the new challenge fields The book consists of 13 chapters It is divided into four sections namely theory and method performance evaluation security and template protection and other applications The book was reviewed by editors Dr Jucheng Yang and Dr Shanjuan Xie We deeply appreciate the efforts of our guest editors Dr Norman Poh Dr Loris Nanni Dr Dongsun Park Dr Sook Yoon and Ms Congcong Xiong as well as a number of anonymous reviewers *Biometric-Based Physical and Cybersecurity Systems* Mohammad S. Obaidat, Issa Traore, Isaac Woungang, 2018-10-24 This book presents the latest developments in biometrics technologies and reports on new approaches methods findings and technologies developed or being developed by the research community and the industry The book focuses on introducing fundamental principles and concepts of key enabling technologies for biometric systems applied for both physical and cyber security The authors disseminate recent research and developing efforts in this area investigate related trends and challenges and present case studies and examples such as fingerprint face iris retina keystroke dynamics and voice applications The authors also investigate the advances and future outcomes in research and development in

biometric security systems The book is applicable to students instructors researchers industry practitioners and related government agencies staff Each chapter is accompanied by a set of PowerPoint slides for use by instructors

Handbook of Iris Recognition Mark J. Burge, Kevin Bowyer, 2013-01-12 This authoritative collection introduces the reader to the state of the art in iris recognition technology Topics and features with a Foreword by the father of iris recognition Professor John Daugman of Cambridge University presents work from an international selection of preeminent researchers reflecting the uses of iris recognition in 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

Sensors and Biosensors, MEMS Technologies and its Applications Sergey Yurish, 2014-07-14 Sensors and Biosensors MEMS Technologies and its Applications Book Series Advances in Sensors Reviews Vol 2 18 chapters with sensor related state of the art reviews and descriptions of the latest achievements written by experts from academia and industry from 12 countries China India Iran Malaysia Poland Singapore Spain Taiwan Thailand UK Ukraine and USA This volume is divided into three main parts physical sensors biosensors nanoparticles MEMS technologies and applications With this unique combination of information in each volume the Advances in Sensors Reviews Book Series will be of value for scientists and engineers in industry and at universities to sensors developers distributors and users Like the 1st volume of this Book Series the 2nd volume also has been organized by topics of high interest

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

The Biometric Computing Karm Veer Arya, Robin Singh Bhadoria, 2019-11-05 The Biometric Computing Recognition Registration presents introduction of biometrics along with detailed analysis for identification and recognition methods This book forms the required platform for understanding biometric computing and its implementation for securing target system It also provides the comprehensive analysis on algorithms architectures and interdisciplinary connection of biometric computing along with detailed case studies for newborns and resolution spaces The strength of this book is its unique approach starting with how biometric computing works to research paradigms and gradually moves towards its advancement This book is divided into three parts that comprises basic fundamentals and definitions algorithms and methodologies and futuristic research and case studies Features A clear view to the fundamentals of Biometric Computing Identification and recognition approach for different human characteristics Different methodologies and algorithms for human identification using biometrics traits such as face Iris fingerprint palm print voiceprint etc Interdisciplinary connection of biometric computing with the fields like deep neural network artificial intelligence Internet of Biometric Things low resolution face recognition etc This book is an edited volume by prominent invited researchers and practitioners around the globe in the field of biometrics describes the fundamental and recent advancement in biometric recognition and registration This book is a perfect research handbook for young practitioners who are intending to carry out their research in the field of Biometric Computing and will be used by industry professionals graduate and researcher students in the field of computer science and engineering

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

Enhancing Information Security and Privacy by Combining Biometrics with Cryptography Sanjay Kanade, Dijana Petrovska-Delacretaz, Bernadette Dorizzi, 2022-05-31 This book deals with crypto biometrics a relatively new and multi disciplinary area of research started in 1998 Combining biometrics and cryptography provides multiple advantages such as revocability template diversity better verification accuracy and

generation of cryptographically usable keys that are strongly linked to the user identity In this text a thorough review of the subject is provided and then some of the main categories are illustrated with recently proposed systems by the authors Beginning with the basics this text deals with various aspects of crypto biometrics including review cancelable biometrics cryptographic key generation from biometrics and crypto biometric key sharing protocols Because of the thorough treatment of the topic this text will be highly beneficial to researchers and industry professionals in information security and privacy

Table of Contents Introduction Cancelable Biometric System Cryptographic Key Regeneration Using Biometrics Biometrics Based Secure Authentication Protocols Concluding Remarks **Trust, Privacy, and Security in Digital Business** Claudia Eckert, Sokratis K. Katsikas, Günther Pernul, 2014-08-19 This book constitutes the refereed proceedings of the 11th International Conference on Trust and Privacy in Digital Business TrustBus 2014 held in Munich Germany in September 2014 in conjunction with DEXA 2014 The 16 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in the following topical sections trust management trust metrics and evaluation models privacy and trust in cloud computing security management and security trust and privacy in mobile and pervasive environments *Universal Access in Human-Computer Interaction: Design and Development Methods for Universal Access* Constantine Stephanidis, Margherita Antona, 2014-05-15 The four volume set LNCS 8513 8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human Computer Interaction UAHCI 2014 held as part of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 jointly with 14 other thematically similar conferences The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this four volume set The 51 papers included in this volume are organized in the following topical sections design for all methods techniques and tools development methods and tools for universal access user models adaption and personalization natural multimodal and multisensory interaction and brain computer interfaces *Moral, Ethical, and Social Dilemmas in the Age of Technology: Theories and Practice* Luppigini, Rocci, 2013-02-28 Our social educational professional and political ethics play a significant role in every aspect of our life As technology continues to influence our society these principles need to be valued Moral Ethical and Social Dilemmas in the Age of Technology Theories and Practice highlights the innovations and developments in the ethical features of technology in society This comprehensive collection brings together research in the areas of computer engineering and biotechnical ethics These theoretical studies and innovative methodologies are essential for researchers practitioners and philosophers Machine

Learning: Concepts, Methodologies, Tools and Applications Management Association, Information Resources, 2011-07-31 This reference offers a wide ranging selection of key research in a complex field of study discussing topics ranging from using machine learning to improve the effectiveness of agents and multi agent systems to developing machine learning software for high frequency trading in financial markets Provided by publishe

Pattern Recognition. ICPR International Workshops and Challenges Alberto Del Bimbo, Rita Cucchiara, Stan Sclaroff, Giovanni Maria Farinella, Tao Mei, Marco Bertini, Hugo Jair Escalante, Roberto Vezzani, 2021-02-20 This 8 volumes set constitutes the refereed of the 25th International Conference on Pattern Recognition Workshops ICPR 2020 held virtually in Milan Italy and rescheduled to January 10 11 2021 due to Covid 19 pandemic The 416 full papers presented in these 8 volumes were carefully reviewed and selected from about 700 submissions The 46 workshops cover a wide range of areas including machine learning pattern analysis healthcare human behavior environment surveillance forensics and biometrics robotics and egovision cultural heritage and document analysis retrieval and women at ICPR2020

Signal and Image Processing for Biometrics Amine Nait-Ali, Regis Fournier, 2012-12-17 The aim of this book is to deal with biometrics in terms of signal and image processing methods and algorithms This will help engineers and students working in digital signal and image processing deal with the implementation of such specific algorithms It discusses numerous signal and image processing techniques that are very often used in biometric applications In particular algorithms related to hand feature extraction speech recognition 2D 3D face biometrics video surveillance and other interesting approaches are presented Moreover in some chapters Matlab codes are provided so that readers can easily reproduce some basic simulation results This book is suitable for final year undergraduate students postgraduate students engineers and researchers in the field of computer engineering and applied digital signal and image processing

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Communications and Multimedia Security Bart De

Decker, Jana Dittmann, Christian Kraetzer, Claus Vielhauer, 2013-09-16 This book constitutes the refereed proceedings of the 14th IFIP TC 6 TC 11 International Conference on Communications and Multimedia Security CMS 2013 held in Magdeburg Germany in September 2013 The 5 revised full papers presented together with 11 short papers 5 extended abstracts describing the posters that were discussed at the conference and 2 keynote talks were carefully reviewed and selected from 30 submissions The papers are organized in topical sections on biometrics applied cryptography digital watermarking steganography and forensics and social network privacy security and authentication **Advances in Security, Networks, and Internet of Things** Kevin Daimi, Hamid R. Arabnia, Leonidas Deligiannidis, Min-Shiang Hwang, Fernando G. Tinetti, 2021-07-10 The book presents the proceedings of four conferences The 19th International Conference on Security Includes the tracks on security Features papers from SAM 20 ICWN 20 ICOMP 20 and ESCS 20 *Multimodality in Mobile Computing and Mobile Devices: Methods for Adaptable Usability* Kurkovsky, Stan, 2009-11-30 This book offers a variety of perspectives on multimodal user interface design describes a variety of novel multimodal applications and provides several experience reports with experimental and industry adopted mobile multimodal applications Provided by publisher

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