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Dario Maio - Anil K. Jain
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Handbook of Fingerprint Recognition

Third Edition



Handbook Of Fingerprint Recognition

Feng Liu,Qijun Zhao,David Zhang



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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 **Handbook of Fingerprint Recognition**

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Handbook of Fingerprint Recognition Davide Maltoni,Dario Maio,Anil Jain,Salil Prabhakar,2009-08-29 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 **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 *Handbook of Biometric Anti-Spoofing* Sébastien Marcel,Julian Fierrez,Nicholas Evans,2023-02-23 The third edition of this authoritative and comprehensive handbook is the definitive work on the current state of the art of Biometric Presentation Attack Detection PAD also known as Biometric Anti Spoofing Building on the success of the previous editions this thoroughly updated third edition has been considerably revised to provide even greater coverage of PAD methods spanning biometrics systems based on face fingerprint iris voice vein and signature recognition New material is also included on major PAD competitions important databases for research and on the

impact of recent international legislation Valuable insights are supplied by a selection of leading experts in the field complete with results from reproducible research supported by source code and further information available at an associated website Topics and features reviews the latest developments in PAD for fingerprint biometrics covering recent technologies like Vision Transformers and review of competition series examines methods for PAD in iris recognition systems the use of pupil size measurement or multiple spectra for this purpose discusses advancements in PAD methods for face recognition based biometrics such as recent progress on detection of 3D facial masks and the use of multiple spectra with Deep Neural Networks presents an analysis of PAD for automatic speaker recognition ASV including a study of the generalization to unseen attacks describes the results yielded by key competitions on fingerprint liveness detection iris liveness detection and face anti spoofing provides analyses of PAD in finger vein recognition in signature biometrics and in mobile biometrics includes coverage of international standards in PAD and legal aspects of image manipulations like morphing This text reference is essential reading for anyone involved in biometric identity verification be they students researchers practitioners engineers or technology consultants Those new to the field will also benefit from a number of introductory chapters outlining the basics for the most important biometrics This text reference is essential reading for anyone involved in biometric identity verification be they students researchers practitioners engineers or technology consultants Those new to the field will also benefit from a number of introductory chapters outlining the basics for the most important biometrics

Advanced Studies in Biometrics Massimo Tistarelli,2005-06-03 Automatic person authentication the identification and verification of an individual as such has increasingly been acknowledged as a significant aspect of various security applications Various recognition and identification systems have been based on biometrics utilizing biometric features such as fingerprint face retina scans iris patterns hand geometry DNA traces gait and others This book originates from an international summer school on biometrics held in Alghero Italy in June 2003 The seven revised tutorial lectures by leading researchers introduce the reader to biometrics based person authentication fingerprint recognition gait recognition various aspects of face recognition and face detection topologies for biometric recognition and hand detection Also included are the four best selected student papers all dealing with face recognition

Touchless Fingerprint Biometrics Ruggero Donida Labati,Vincenzo Piuri,Fabio Scotti,2015-08-14 This book offers the first comprehensive analysis of touchless fingerprint recognition technologies It gives an overview of the state of the art describes relevant industrial applications and presents new techniques to efficiently and effectively implement advanced solutions based on touchless fingerprint biometrics It considers current problems in developing high accuracy touchless recognition technology and recommends future work that can be done to address them A state of the art presentation of the field it demonstrates that applying touchless technologies to biometric recognition systems shows particular promise

Advanced Fingerprint Recognition: From 3D Shape to Ridge Detail Feng Liu,Qijun Zhao,David Zhang,2020-05-22 Fingerprints are among the most widely used biometric

modalities and have been successfully applied in various scenarios For example in forensics fingerprints serve as important legal evidence and in civilian applications fingerprints are used for access and attendance control as well as other identity services Thanks to advances in three dimensional 3D and high resolution imaging technology it is now feasible to capture 3D or high resolution fingerprints to provide extra information and go beyond the traditional features such as global ridge patterns and local ridge singularities used in conventional fingerprint recognition tasks This book presents the state of the art in the acquisition and analysis of 3D and high resolution fingerprints Based on the authors research this book focuses on advanced fingerprint recognition using 3D fingerprint features i e finger shape level 0 features or high resolution fingerprint features i e ridge detail level 3 features It is a valuable resource for researchers professionals and graduate students working in the field of computer vision pattern recognition security biometrics practice as well as interdisciplinary researchers

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 Recognition Wei-Shi Zheng, Zhenan Sun, Yunhong Wang, Xilin Chen, Pong C. Yuen, Jianhuang Lai, 2013-12-06 This book constitutes the refereed proceedings of the 7th Chinese Conference on Biometric Recognition CCBR 2012 held in Guangzhou China in December 2012 The 46 revised full papers were carefully reviewed and selected from 80 submissions The papers address the problems in face iris hand biometrics speaker handwriting gait soft biometrics security and other related topics and contribute new ideas to research and development of reliable and practical solutions for biometric authentication

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

Vulnerabilities and Attack Protection in Security Systems Based on Biometric Recognition, **National Institute of Justice Journal**, 2008 [Pattern Recognition Applications and Methods](#) Ana Fred, Maria De Marsico, Antoine Tabbone, 2015-11-19 This book constitutes the thoroughly refereed post conference proceedings of the Third International Conference on Pattern Recognition ICPRAM 2014 held in Angers France in March 2014 The 18 revised full papers were carefully reviewed and selected from 179 submissions and describe up to date applications of Pattern Recognition techniques to real world problems interdisciplinary research experimental and or theoretical studies yielding new insights that advance Pattern Recognition methods

Computational Intelligence in Pattern Recognition Asit Kumar Das, Janmenjoy Nayak, Bighnaraj Naik, M. Himabindu, S. Vimal, Danilo Pelusi, 2025-03-04 This book features high quality research papers presented at the 6th International Conference on Computational Intelligence

in Pattern Recognition CIPR 2024 held at Maharaja Sriram Chandra Bhanja Deo University MSCB University Baripada Odisha India during March 15 16 2024 It includes practical development experiences in various areas of data analysis and pattern recognition focusing on soft computing technologies clustering and classification algorithms rough set and fuzzy set theory evolutionary computations neural science and neural network systems image processing combinatorial pattern matching social network analysis audio and video data analysis data mining in dynamic environments bioinformatics hybrid computing big data analytics and deep learning It also provides innovative solutions to the challenges in these areas and discusses recent developments

Handbook of Information and Communication Security Peter Stavroulakis, Mark Stamp, 2010-02-23 At its core information security deals with the secure and accurate transfer of information While information security has long been important it was perhaps brought more clearly into mainstream focus with the so called Y2K issue The Y2K scare was the fear that computer networks and the systems that are controlled or operated by software would fail with the turn of the millennium since their clocks could lose synchronization by not recognizing a number instruction with three zeros A positive outcome of this scare was the creation of several Computer Emergency Response Teams CERTs around the world that now work cooperatively to exchange expertise and information and to coordinate in case major problems should arise in the modern IT environment The terrorist attacks of 11 September 2001 raised security concerns to a new level The international community responded on at least two fronts one front being the transfer of reliable information via secure networks and the other being the collection of information about potential terrorists As a sign of this new emphasis on security since 2001 all major academic publishers have started technical journals focused on security and every major communications conference for example Globecom and ICC has organized workshops and sessions on security issues In addition the IEEE has created a technical committee on Communication and Information Security The first editor was intimately involved with security for the Athens Olympic Games of 2004

Introduction to Biometrics Anil K. Jain, Arun A. Ross, Karthik Nandakumar, Thomas Swearingen, 2024-10-29 This textbook introduces the fundamental concepts and techniques used in biometric recognition to students practitioners and non experts in the field Specifically the book describes key methodologies used for sensing feature extraction and matching of commonly used biometric modalities such as fingerprint face iris and voice In addition it presents techniques for fusion of biometric information to meet stringent accuracy requirements also discussing various security issues and associated remedies involved in the deployment of biometric systems Furthermore this second edition captures the progress made in the field of biometric recognition with highlights including Lucid explanation of core biometric concepts e.g individuality and persistence which builds a strong foundation for more in depth study and research on biometrics A new chapter on deep neural networks that provides a primer to recent advancements in machine learning and computer vision Illustrative examples of how deep neural network models have contributed to the rapid evolution of biometrics in areas such as robust feature representation and synthetic biometric data generation A new chapter

on speaker recognition which introduces the readers to person recognition based on the human voice characteristics
Presentation of emerging security threats such as deepfakes and adversarial attacks and sophisticated countermeasures such as presentation attack detection and template security While this textbook has been designed for senior undergraduate students and first year graduate students studying a course on biometrics it is also a useful reference guide for biometric system designers developers and integrators

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 Biometrics David Zhang, 2006-02-10 This book constitutes the refereed proceedings of the International Conference on Biometrics ICB 2006 held in Hong Kong China in January 2006 The book includes 104 revised full papers covering such areas of biometrics as the face fingerprint iris speech and signature biometric fusion and performance evaluation gait keystrokes and more In addition the results of the Face Authentication Competition FAC 2006 are also announced in this volume

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