Vein Pattern Recognition
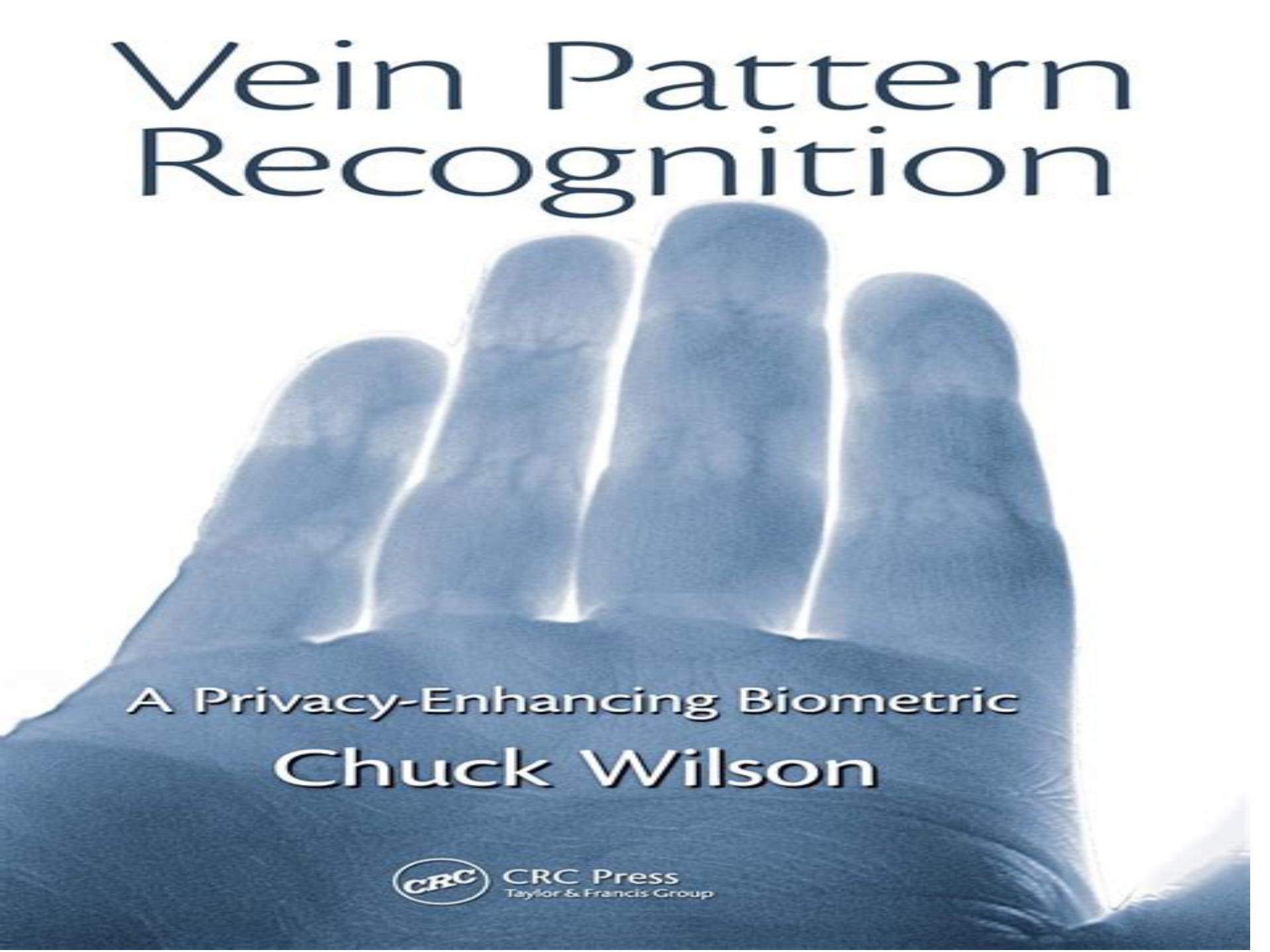
A Privacy-Enhancing Biometric

Chuck Wilson

Vein Pattern Recognition A Privacy Enhancing Biometric

**Keisoku Jidō Seigyo Gakkai (Japan).
Gakujutsu Kōenkai**

Vein Pattern Recognition A Privacy Enhancing Biometric:

Vein Pattern Recognition Chuck Wilson,2010-03-10 As one of the most promising biometric technologies vein pattern recognition VPR is quickly taking root around the world and may soon dominate applications where people focus is key Among the reasons for VPR s growing acceptance and use it is more accurate than many other biometric methods it offers greater resistance to spoofing it focuses **Biometric Security and Privacy** Richard Jiang,Somaya Al-maadeed,Ahmed Bouridane,Prof. Danny Crookes,Azeddine Beghdadi,2016-12-21 This book highlights recent research advances on biometrics using new methods such as deep learning nonlinear graph embedding fuzzy approaches and ensemble learning Included are special biometric technologies related to privacy and security issues such as cancellable biometrics and soft biometrics The book also focuses on several emerging topics such as big data issues internet of things medical biometrics healthcare and robot human interactions The authors show how these new applications have triggered a number of new biometric approaches They show as an example how fuzzy extractor has become a useful tool for key generation in biometric banking and vein heart rates from medical records can also be used to identify patients The contributors cover the topics their methods and their applications in depth *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 Research Developments in Biometrics and Video Processing Techniques Srivastava, Rajeev,Singh, S.K.,Shukla, K.K.,2013-12-31 This book investigates advanced techniques in user identification and security including retinal facial and finger print scans as well as signature and voice authentication models Provided by publisher **Biometrics in Identity Management** Shimon K. Modi,2011 In todayOCOs digital infrastructure we have to interact with an increasing number of systems both in the physical and virtual world Identity management IdM the process of identifying an individual and controlling access to resources based on their associated privileges is becoming progressively complex This has brought the spotlight on the importance of effective and efficient means of ascertaining an individualOCOs identity Biometric technologies like fingerprint recognition face recognition iris recognition etc have a long history of use in law enforcement applications and are now transitioning towards commercial applications like password replacements ATM authentication and others This unique book provides you with comprehensive coverage of commercially available biometric technologies their underlying principles operational challenges and benefits and deployment considerations It also offers a look at the future direction these technologies are taking By focusing on

factors that drive the practical implementation of biometric technologies this book serves to bridge the gap between academic researchers and industry practitioners This book focuses on design development and deployment issues related to biometric technologies including operational challenges integration strategies technical evaluations of biometric systems standardization and privacy preserving principles and several open questions which need to be answered for successful deployments **Information Systems Security** Atul Prakash,Rudrapatna Shyamasundar,2014-12-03 This book constitutes the refereed proceedings of the 10th International Conference on Information Systems Security ICISS 2014 held in Hyderabad India in December 2014 The 20 revised full papers and 5 short papers presented together with 3 invited papers were carefully reviewed and selected from 129 submissions The papers address the following topics security inferences security policies security user interfaces security attacks malware detection forensics and location based security services

   Privacy in the 21st Century Alexandra Rengel,2013-10-02 In Privacy in the 21st Century Alexandra Rengel offers an assessment of the international right to privacy within both a historical and modern context The book explores the underpinnings of privacy in religion philosophy and the law The author explores the evolution of the legal concept of the right to privacy and offers a comparative law analysis of the global protections of privacy offered by individual states international agreements and recognized international legal norms The author peers into the future of privacy the technologies which affect the right to privacy and the ways in which privacy may be protected in the future within the domestic and international law contexts The author offers her insightful views on possible solutions to counteract encroachments on the right to privacy

   The Future of Privacy Perri 6,1998 **Electronic Design** , Proceedings of the ... SICE Annual Conference Keisoku Jidō Seigyo Gakkai (Japan). Gakujutsu Kōenkai,2004 *Texture Based Hand Vein Pattern Recognition* Premalatha Kandhasamy,2017-04 With the increasing demand for security worldwide biometric recognition is becoming more and more important and with the improvements in computer vision and pattern recognition technologies it is becoming more usable as well Hand vein pattern is a biometric feature in which the actual pattern has the shape of the vein network and its characteristics are the vein features The main objective of this project work is to develop a personal recognition system based on hand dorsal vein pattern with a high recognition rate Hand vein biometrics offer higher security It is easy to acquire the hand vein image and very hard to forge the data compared to more established biometric verification methods with a comparable or improved recognition rate Weber local binary pattern WLBP consists of two components named differential excitation and Local Binary Pattern LBP The differential excitation extracts perception features by Weber s law and the LBP describe the local features By computing the two components the differential excitation image and the LBP image are extracted WLBP histogram is constructed using these two images HOG is a technique which counts occurrences of gradient orientation in localized portions of an image WLBP and HOG features are fused together and it is used for classifying the images The next section of the work computes the binary code string for every pixel of a given image by

means of natural image statistical filters The code value of the pixel considers the local descriptor of an image intensity values in the pixel s neighborhood The value of each bit binary code is calculated by binarizing the response of linear filter with a threshold at 0 Each bit is related with different filters and the preferred length of the binary code decides the number of filters used The most important method for image representation and analysis is the spatial frequency transformation which can be represented in terms of magnitude and phase Phase is highly invulnerable to noise and contrast distortions and it is an important feature desirable in image processing In the final section of the work the twelve bit code of the feature vector from 0 4095 is obtained using local Gaussian phase quantization and local Gabor phase quantization These codes for all image pixel neighborhoods are collected into histogram bins which can be used for hand vein image classification   Wall Street & Technology ,2008   **Palm Vein Recognition as Human Biometrics** Junwen Sun,2017 A palm vein biometrics system is essentially a pattern recognition system that operates by acquiring an image of the palm veins extracting a feature set from the image and comparing this feature set against the template saved in a database Unlike other biometric technologies such as fingerprints or face recognition the palm vein scanner works by capturing the images of the vein patterns that are beneath the skin of the palm Thus palm vein based biometrics are more secure than fingerprints and palm prints Moreover the palm vein scanner captures the images of vein patterns in a contactless manner which makes it more sterile and hygienic to use However the palm prints are also available in the Near Infrared NIR illumination around 760nm wavelength In some multispectral palmprint databases the palmprint and palm vein images are both available in the same image In this thesis the features of both palm vein and palmprint are used for recognition The process of palm vein recognition can be divided into several stages image acquisition pre processing feature extraction matching and decision making In order to build a reliable and accurate system the unchangeable features of the palm prints veins must be efficiently extracted from the original image The difficulty of this problem combined with the development of hyperspectral imaging techniques has motivated the research presented in this thesis Line or linear prints veins detection have played an important part in palm prints vein recognition These techniques have been reviewed and explored However the vulnerability to the change of palm position and ambient illumination together with low accuracy encouraged researchers to find more stable algorithms Fourier transform wavelet transform and other frequency domain transforms are more robust and stable in palm prints veins recognition Due to the sparsity of the palm image which is usually composed of some prints and veins it s convenient to only transform the linear features to the frequency domain Thus in this thesis the Curvelet Transform is introduced to extract the curve like features from the palm print vein images for accurate and sparse representation The palm image is decomposed to several scales of coefficients while in each scale the coefficients represent different features of the palm image This technique can reduce the storage of the palm image to several hundred bytes and improve the accuracy as well In order to increase the recognition accuracy a combination of several biometrics features should be considered as

well The Curvelet Transform is good at extracting the curve like features for accurate and sparse representation while the Gabor Filter can preserve local orientations A combining scheme is proposed to utilise both of the two recognition methods at the same time with single near infrared palm image This combining scheme improves the recognition accuracy a lot compared with techniques with solely Curvelet Transform or Gabor Filter The experimental results demonstrate the effectiveness of the proposed method As we can get information more easily and more accurately the problem of information redundancy emerges especially in hyperspectral imaging As the number of palm images in the database increases more effective methods of categorizing palm veins and fast matching algorithms should be developed In hyperspectral palmprint recognition systems it s not convenient to use exhaustive search for the optimal band selection and combination A bands selection scheme is developed at the pre processing stage **Smart Cards** José Luis Zoreda,José Manuel Otón,1994 Here s a thorough overview of the evolution of smart cards and the wide range of their emerging applications in finance health care universities security biometrics and mobile communications You ll find a detailed discussion of the state of the art design and programming The authors show you how to choose a card by guiding you through each step involved in implementation and practical use **Handbook of Vascular Biometrics** Andreas Uhl,Christoph Busch,Sébastien Marcel,Raymond Veldhuis,2020-09-11 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 Advanced Hand-based Biometrics Bob Zhang,Shuping Zhao,Lunke Fei,Shuyi Li,2026-01-06 This book offers a scholarly examination of innovative biometric recognition technologies focusing on palmprint finger knuckle print palm vein dorsal hand vein and multi modal hand based recognition systems It is tailored for an academic and professional audience including researchers academics and industry practitioners engaged in the field of biometrics pattern recognition and artificial intelligence The book s significance lies in its comprehensive analysis of state of the art hand based biometric recognition methods It provides a systematic overview of various traits and recent technological advancements offering readers insights into the practical applications and theoretical foundations of these emerging biometric modalities The content encompasses detailed discussions on feature extraction matching algorithms and fusion techniques highlighting their implications for enhancing authentication accuracy and security The primary benefits of this book include its thorough coverage of advanced hand based biometric recognition its presentation of the latest research findings and its exploration of cross disciplinary applications It is intended to equip readers with an in depth understanding of the current landscape and future prospects of hand based biometrics The book assumes that readers possess a

foundational knowledge of pattern recognition and machine learning which are prerequisites for grasping the presented concepts and methodologies **Handbook of Vascular Biometrics** Raymond Veldhuis,Sébastien Marcel,Christoph Busch,2020-10-08 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 This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use All rights not granted by the work s license are retained by the author or authors *Biometrics* John Woodward,Nicholas M. Orlans,Peter T. Higgins,2003-01-09 Discover how to make biometrics the technology involving scanning and analyzing unique body characteristics and matching them against information stored in a database a part of your overall security plan with this hands on guide Includes deployment scenarios cost analysis privacy issues and much more Advances in Biometrics N. K. Ratha,Venu Govindaraju,2007-10-06 Biometrics technology continues to stride forward with its wider acceptance and its perceived need in various new security facets of modern society Biometrics is being required to meet the growing challenges of identity management While biometrics finds use in all diverse applications the research challenges continue to grow as the user community expects a fully automatic system to cover the whole universal population with almost no errors Recent advances in biometrics include new developments in sensors modalities and algorithms As new sensors are designed newer challenges emerge in the algorithms for accurate recognition New modalities have been discovered in addition to the fusion of existing modalities to improve accuracy and wider coverage Written for researchers advanced students and practitioners to use as a handbook this volume captures the very latest state of the art research contributions from leading international researchersin the field Palm Veins Recognition and Verification System Asmaa M. J. Agha,Loay E. George,2014-09-23 During the last years hand vein patterns recognition is one of the most recent biometric technologies used for the identification verification of individuals The vein trace is hard to damaged changed or falsified since veins are internal to the human body In this work a novel palm vein recognition and verification system is presented The system work flow passes through two main phases i the enrollment phase and ii the recognition phase In the enrollment phase the biometric system is trained to identity a specific person While in the recognition phase the system tries to identify who is the person in case of identification or to verify is the person who he she claims to be in case of verification

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