Handbook Of Fingerprint Recognition

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Handbook of Fingerprint Recognition Handbook of Fingerprint Recognition Handbook of Fingerprint Recognition Automatic Fingerprint Recognition Systems Handbook of Fingerprint Recognition Automatic Fingerprint Recognition Systems Advanced Fingerprint Recognition: From 3D Shape to Ridge Detail Computational Algorithms for Fingerprint Recognition Review of Three Categories of Fingerprint Recognition A SURVEY ON VARIOUS APPROACHES TO FINGERPRINT MATCHING FOR PERSONAL VERIFICATION AND IDENTIFICATION Handbook of Biometrics Elevated Enhancement Techniques for Fingerprint Recognition System Fingerprint Recognition Technology - Related Topics Fingerprint Matching Through Feature Extraction and Matrix Equalization Intelligent Biometric Techniques in Fingerprint and Face Recognition Reliable Fingerprint Recognition Biometrics For Dummies User Acceptance of Biometric Identification at Airports Forensic Science. Identification of Fingerprints Biometrics in Identity Management *Davide Maltoni Davide Maltoni Davide Maltoni Nalini Ratha Davide Maltoni Nalini Ratha Feng Liu Bir Bhanu Prof Vikram M. Agrawal Shoba Dyre Anil K. Jain Humbe Vikas Martin Drahansky Md. Shahadat Hossain Lakhmi C. Jain Li Wang Peter H. Gregory Sophia Ritter Nazifa Javaid Shimon K. Modi*

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

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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

biometrics such as fingerprint face gait iris voice and signature recognizes one s identity using his her physiological or behavioral characteristics among these biometric signs fingerprint has been researched the longest period of time and shows the most promising future in real world applications however because of the complex distortions among the different impressions of the same finger fingerprint recognition is still a challenging problem computational algorithms for fingerprint recognition presents an entire range of novel computational algorithms for fingerprint recognition these include feature extraction indexing matching classification and performance prediction validation methods which have been compared with state of art algorithms and found to be effective and efficient on real world data all the algorithms have been evaluated on nist 4 database from national institute of standards and technology nist specific algorithms addressed include learned template based minutiae extraction algorithm triplets of minutiae based fingerprint indexing algorithm genetic algorithm based fingerprint matching algorithm genetic programming based feature learning algorithm

for fingerprint classification comparison of classification and indexing based approaches for identification fundamental fingerprint matching performance prediction analysis and its validation computational algorithms for fingerprint recognition is designed for a professional audience composed of researchers and practitioners in industry this book is also suitable as a secondary text for graduate level students in computer science and engineering

fingerprint recognition is the broadly used in biometric authentication and security as it is unchangeable throughout our lifetime they are formed by minutiae these are major features of a fingerprint using which comparison of one print with another can be made ridges and furrows on the fingers this paper presents the review of different methods of fingerprint recognition the minutiae based matching is used in most automated systems but it is time consuming pattern based matching make use of a virtual core point and pattern based point the correlation is parts of one image with parts of the next in order to find image flow has been used more often as part of flow estimating algorithms than as a single method in its own right the method does not perform the data reduction of the feature based techniques and is computationally expensive

automatic fingerprint authentication for personal identification and verification has received considerable attention over the past decades among various biometric techniques because of the distinctiveness and persistence properties of fingerprints now fingerprints are set to explode in popularity as they are being used to secure smart phones and to authorize payments in online stores the main objective of this paper is to review the extensive research work that has been done over the past decade and discuss the various approaches proposed for fingerprint matching

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

in an increasingly digital technology world among the main innovation prospects and framework of future communication systems design of database access integral services e commerce remote control of terminals and devices are being the result of global services derived from last generation some features standout from such future services like authentication in human machine interacting to deal with security and identification problems therefore the uses of biometric based technology get developed this is unsullied and emerging technology due to its high degree of maturity and reliability biometrics is an imperative research area in this digital era among biometeic technology the fingerprint identification and verification plays an important role in the early twentieth century and fingerprints were formally accepted as a valid signs of identity by law enforcement agencies as compare to other biometric signs fingerprint is more reliable and accurate sign for identity while significant progress has been made in fingerprint identification there are still number of research issues that need to be addressed to improve system accuracy

this work deals with three related topics in the field of biometric fingerprint recognition the first topic is devoted to the skin structure and various sensor technologies used for

the fingerprint acquirement namely optical capacitive ultrasonic e field electro optical pressure thermal mems and sweep this is followed by the description of influencing factors which could have an impact on the fingerprint acquirement process e g skin diseases the second topic covers the issues of estimation of fingerprint image quality at the beginning important error rates and curves for the evaluation of biometric system performance are introduced the last topic deals with the liveness detection at the beginning some basic risks related to biometric systems are discussed and the need for liveness detection is explained this is followed by the description of all known methods for the liveness detection which could be suitably used in the fingerprint recognition

research paper undergraduate from the year 2014 in the subject computer science applied khulna university course mathematics language english abstract minutiae based feature extraction methods are used for fingerprint matching this method is mainly depending on the characteristics of minutiae of the individuals the minutiae are ridge endings or bifurcations on the fingerprints their coordinates and direction are most distinctive features to represent the fingerprint most fingerprint matching systems store only the minutiae template in the database for further usage the conventional methods to utilize minutiae information are treating it as a point set and finding the matched points from different minutiae sets this kind of minutiae based fingerprint recognition matching systems consists of two steps minutiae extraction and minutiae matching image enhancement histogram equalization thinning binarization smoothing block direction estimation image segmantation roi extraction etc are discussed in the minutiae extraction step after the extraction of minutiae the false minutiae are removed from the extraction to get the accurate result in the minutiae matching process the minutiae features of a given fingerprint are compared with the minutiae template and the matched minutiae will be found out the final template used for fingerprint matching is further utilized in the matching stage to enhance the system s performance two fingerprint images always give two different matrices the matrix equalization method is also used for matching two fingerprint images after the final template

the tremendous world wide interest in intelligent biometric techniques in fingerprint and face recognition is fueled by the myriad of potential applications including banking and security systems and limited only by the imaginations of scientists and engineers this growing interest poses new challenges to the fields of expert systems neural networks fuzzy systems and evolutionary computing which offer the advantages of learning abilities and human like behavior biometric techniques in fingerprint and face recognition presents a thorough treatment of established and emerging applications and techniques relevant to this field so rich with opportunity

fingerprints have been used for personal identification for centuries because of their uniqueness and consistency over time fingerprint recognition is one of the most popular methods for personal identification due to its high accuracy cost efficiency and ease of acquisition automated fingerprint recognition has the advantages of fast processing and high accuracy but its performance deeply depends on the quality of the collected fingerprint images the matching accuracy of current automatic fingerprint recognition systems decreases dramatically when the quality of fingerprint images is poor for example a fingerprint image may contain massive noise cleaves or inks in these cases manual fingerprint recognition achieves better matching results than automatic systems one of the major challenges in fingerprint recognition is how to improve the performance of an automatic fingerprint recognition system in terms of reliability and accuracy especially for low quality images the motivation of this research is derived

from the raised need for fingerprint recognition techniques with better matching accuracy and reliability how to improve the accuracy and reliability of an automatic fingerprint recognition system when processing low quality fingerprint images is the major objective of this research work because feature extraction and feature matching are two main components in a fingerprint recognition system the above objective could be restated as i to design reliable and accurate feature extraction techniques suitable for low quality images and ii appropriate matching methods or matching metric with high tolerance for image noise and feature extraction errors in order to achieve the above objectives effort has been made to improve the matching accuracy of an automatic fingerprint recognition system by introducing the following methods i a fingerprint image pre processing method in the spatial domain ii two different singular point detection approaches and iii a new matching metric named binarized minutiae block for fingerprint matching firstly we have investigated current fingerprint enhancement techniques a typical fingerprint enhancement module is composed of an image pre processing stage and a contextual filtering stage traditionally image pre processing or called pixel wise enhancement techniques are used to improve the contrast of an image rather than removing noise in this study we found that removing noise and improving the image quality in this stage enables the subsequent contextual filtering stage to obtain a better clarity of ridge and valley structure especially for poor quality fingerprint images particularly suitable for wet and smudged fingerprint images based on experimental observation therefore we proposed an image pre processing approach using contrast stretching and power law transformation techniques to improve the quality of fingerprint images the metric goodness index which is used to evaluate the image quality is used to evaluate this method the experimental results show that this approach is able to improve the clarity of ridge and valley structures especially for wet and smudged fingerprints the average goodness index value obtained from the experiment is improved by 14 compared to other reported methods in addition it enables the subsequent contextual filtering e g gabor filtering stage for better image enhancement results and ultimately improve the reliability of feature extraction e g minutiae extraction secondly we have investigated feature extraction techniques especially singular point detection which is a global feature in a fingerprint the performance of current singular point detection techniques is relatively low for poor quality images mostly around 90 of correct detection rate and much lower for poincaré index based approaches as a consequence it becomes the major bottle neck for fingerprint recognition techniques which rely on singular points such as reference point based fingerprint global pre alignment and fingerprint classification in order to address this issue we first investigated the popular poincaré index based approaches the poincaré index technique highly depends on image quality and suffers from the problem of a large number of spurious singular points especially for low quality images as a consequence we designed a rule based post proccessing technique to validate and remove spurious singular points the experimental results show that the correct detection rate on average is 89 48 on db1a and db2a of fingerprint verification competition fvc 2002 datasets these datasets contain fingerprint images with various quality levels and are especially suitable for evaluation of fingerprint recognition algorithms it is around 3 improvement over other reported poincaré index based approaches in terms of overall correct detection rate however one limitation of the poincaré index technique is that it processes data locally while singular points are global features which are easily influenced by local noise and may cause a number of spurious singular points especially for low quality images therefore we have proposed a new singular point detection method globally over the whole image based on the analysis of local ridge orientation maps in addition this method is also able to locate a reference point for arch type fingerprints which is useful for fingerprint pre alignment as a reference point as well as

for fingerprint classification the experimental results show that the correct detection rate on average is 94 05 on the datasets of fvc 2002 db1a and db2a this experimental result is superior to any other reported methods in terms of correct detection rate of singular points finally we have investigated the current fingerprint matching methods and proposed a new matching metric named binarized minutiae block for fingerprint matching current matching methods could be classified as minutiae based correlation based and other non minutiae based methods among these methods correlation and other non minutiae based methods have better tolerance to image noise and feature extraction errors than minutiae based methods however minutiae based methods have better tolerance to non linear distortion and obtain better matching results on medium or high quality images this new metric utilizes the minutiae and its surrounding texture information thus it has high tolerance to image noise and feature extraction errors as well as non linear distortion these binarized minutiae blocks are normalized to the same minutiae direction for easy comparison then the local similarities are calculated by the dissimilarities between each pair of binarized minutiae blocks in addition four global similarity calculation methods are designed and implemented using this matching metric the experimental results show that this method achieves overall matching accuracy of 98 24 97 87 and 98 19 on the datasets fvc2002 db1a db2a and fvc2006 db2a as a consequence the results suggest that using binarized minutiae blocks is an alternative way to obtain accurate and reliable matching results other than correlation based grey scale texture information minutiae based and other non minutiae based methods compared to other state of the art matching methods this metric achieves better experimental results in terms of matching accuracy than most reported matching methods on the same testing databases in conclusion this thesis focuses on the research of how to improve the overall matching accuracy of a fingerprint recognition system even for low quality images several methods have been developed to achieve this research objective the experimental results show that these proposed fingerprint recognition techniques are able to improve the recognition accuracy significantly

what is biometrics whether you re just curious about how biometrics can benefit society or you need to learn how to integrate biometrics with an existing security system in your organization biometrics for dummies can help here s a friendly introduction to biometrics the science of identifying humans based on unique physical characteristics with the government s use of biometrics for example biometric passport readers and application of the technology for law enforcement biometrics is growing more popular among security experts biometrics for dummies explains biometric technology explores biometrics policy and privacy issues with biometrics and takes a look at where the science is heading you ll discover how pattern recognition and fingerprint recognition are used the many vulnerabilities of biometric systems and how to guard against them how various countries are handling the privacy issues and what can be done to protect citizens privacy how a scan of the palm veins in the hand and sonar imagery establish identity what it takes to fully authenticate a signature how gait speech linguistic analysis and other types of biometric identification come into play the criteria for setting up an implementation plan how to use authentication authorization and access principles written by a pair of security experts biometrics for dummies gives you the basics in an easy to understand format that doesn t scrimp on substance you ll get up to speed and enjoy getting there

bachelor thesis from the year 2021 in the subject business economics general grade 1 2 university of applied sciences worms language english abstract in this bachelor thesis the focus is on investigating the factors that impact user acceptance of biometric identification at airports and assessing the extent of their influence drawing from

existing literature several factors such as the number of flights taken annually gender interest in new technologies importance placed on data privacy and fear of infection during the covid 19 pandemic are identified and transformed into testable hypotheses through a quantitative survey a total of 307 individuals are interviewed to empirically examine these factors

academic paper from the year 2015 in the subject medicine anatomy physiology cytology language english abstract fingerprints as unique and intricate identifiers have played a pivotal role in the realms of both civil and criminal identification this practice known as dermatoglyphics explores the distinct features formed by the intricate patterns of epidermal ridges on the fingers the uniqueness of fingerprints arises from the complex interplay of multiple genes and their additive effects making them invaluable for studying the fundamental relationships among diverse populations the term fingerprint typically refers to the impression of epidermal ridges left by the fleshy distal portion of a finger on a surface serving as a reliable means of establishing identity these impressions often left behind due to contact with surfaces contain components originating from skin glands such as lipids amino acids proteins and exogenous elements like debris and cosmetics fingerprints have served as a biometric tool for computer aided personal identification making them the oldest mode of such identification the distinct ridges and valleys on fingerprints form patterns that are compared for matching but the analysis poses analytical challenges due to the complex and multifaceted nature of fingermark residue this paper delves into the composition of fingermarks the factors affecting their variability and the impact of conditions like personal hygiene diet and the nature of the substrate on fingerprint composition additionally it addresses circumstances and medical conditions that can alter or destroy fingerprints emphasizing the dynamic nature of fingerprint analysis

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

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