

Fingerprint Recognition

Amira Saleh, Ayman Bahaa and A. Wahdan
*Computer and systems engineering department
Faculty of Engineering /Ain Shams University
Egypt*

1. Introduction

Recognition of persons by means of biometric characteristics is an emerging phenomenon in modern society. It has received more and more attention during the last period due to the need for security in a wide range of applications. Among the many biometric features, the fingerprint is considered one of the most practical ones. Fingerprint recognition requires a minimal effort from the user, does not capture other information than strictly necessary for the recognition process, and provides relatively good performance. Another reason for the popularity of fingerprints is the relatively low price of fingerprint sensors, which enables easy integration into PC keyboards, smart cards and wireless hardware (Maltoni et al., 2009).

Fig. 1 presents a general framework for a general fingerprint identification system (FIS) (Ji & Yi, 2008). Fingerprint matching is the last step in Automatic Fingerprint Identification System (AFIS). Fingerprint matching techniques can be classified into three types:

- Correlation-based matching,
- Minutiae-based matching, and
- Non-Minutiae feature-based matching.

Minutiae-based matching is the most popular and widely used technique, being the basis of the fingerprint comparison.

2. Previous work and motivation

In (Bazen & Gerez, 2003), a novel minutiae matching method is presented that describes elastic distortions in fingerprints by means of a thin-plate spline model, which is estimated using a local and a global matching stage. After registration of the fingerprints according to the estimated model, the number of matching minutiae can be counted using very tight matching thresholds. For deformed fingerprints, the algorithm gives considerably higher matching scores compared to rigid matching algorithms, while only taking 100 ms on a 1 GHz P-III machine. Furthermore, it is shown that the observed deformations are different from those described by theoretical models proposed in the literature.

In (Liang & Asano, 2006), minutia polygons are used to match distorted fingerprints. A minutia polygon describes not only the minutia type and orientation but also the minutia shape. This allows the minutia polygon to be bigger than the conventional tolerance box without losing matching accuracy. In other words, a minutia polygon has a higher ability to

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Oscar Reinoso, Luis Payá



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Handbook of Research on Network Forensics and Analysis Techniques Shrivastava, Gulshan, Kumar, Prabhat, Gupta, B. B., Bala, Suman, Dey, Nilanjan, 2018-04-06 With the rapid advancement in technology myriad new threats have emerged in online environments The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes The Handbook of Research on Network Forensics and Analysis Techniques is a current research publication that examines the advancements and growth of forensic research from a relatively obscure tradecraft to an important part of many investigations Featuring coverage on a broad range of topics including cryptocurrency hand based biometrics and cyberterrorism this publication is geared toward professionals computer forensics practitioners engineers researchers and academics seeking relevant research on the development of forensic tools **Cybersecurity Unlocked** Bhanu Chander, A. Ravi, A. Santhosh, 2025-11-28 As cyber threats grow in sophistication and scale the demand for advanced security knowledge has never been greater This book delivers an in depth examination of critical domains in modern cybersecurity including network security advanced cryptography IoT and cloud security AI and ML in defense strategies next generation threat intelligence and zero knowledge proofs Bridging theory with practice it serves as both an academic reference and a practical guide Researchers will find cutting edge insights for further exploration students will gain a strong foundation enriched with applied perspectives and professionals will access strategies to counter real world security challenges **Research Anthology on Securing Medical Systems and Records** Management Association, Information Resources, 2022-06-03 With the influx of internet and mobile technology usage many medical institutions from doctor s offices to hospitals have implemented new online technologies for the storage and access of health data as well as the monitoring of patient health Telehealth was particularly useful during the COVID 19 pandemic which monumentally increased its everyday usage However this transition of health data has increased privacy risks and cyber criminals and hackers may have increased access to patient personal data Medical staff and administrations must remain up to date on the new technologies and methods in securing these medical systems and records The Research Anthology on Securing Medical Systems and Records discusses the emerging challenges in healthcare privacy as well as the technologies methodologies and emerging research in securing medical systems and enhancing patient privacy It provides information on the implementation of these technologies as well as new avenues of medical security research Covering topics such as biomedical imaging internet of things and watermarking this major reference work is a comprehensive resource for security analysts data scientists hospital administrators leaders in healthcare medical professionals health information managers medical professionals mobile application developers security professionals technicians students libraries researchers and academicians *Theory and Practice of Cryptography Solutions for Secure Information Systems* Elçi, Atilla, Pieprzyk, Josef, Chefranov, Alexander G., Orgun, Mehmet A., Wang, Huaxiong, Shankaran, Rajan, 2013-05-31 Information Systems IS are

a nearly omnipresent aspect of the modern world playing crucial roles in the fields of science and engineering business and law art and culture politics and government and many others As such identity theft and unauthorized access to these systems are serious concerns Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies techniques and concerns primarily through the use of cryptographic tools to safeguard valuable information resources This reference book serves the needs of professionals academics and students requiring dedicated information systems free from outside interference as well as developers of secure IS applications This book is part of the Advances in Information Security Privacy and Ethics series collection

Surveillance in Europe David Wright, Reinhard Kreissl, 2014-09-19 Surveillance in Europe is an accessible definitive and comprehensive overview of the rapidly growing multi disciplinary field of surveillance studies in Europe Written by experts in the field including leading scholars the Companion's clear and up to date style will appeal to a wide range of scholars and students in the social sciences arts and humanities This book makes the case for greater resilience in European society in the face of the growing pervasiveness of surveillance It examines surveillance in Europe from several different perspectives including the co evolution of surveillance technologies and practices the surveillance industry in Europe the instrumentality of surveillance for preventing and detecting crime and terrorism social and economic costs impacts of surveillance on civil liberties resilience in Europe's surveillance society the consequences and impacts for Europe of the Snowden revelations findings and recommendations regarding surveillance in Europe Surveillance in Europe's interdisciplinary approach and accessible content makes it an ideal companion to academics policy makers and civil society organisations alike as well as appealing to top level undergraduates and postgraduates

Cyber Crime and Forensic Computing Gulshan Shrivastava, Deepak Gupta, Kavita Sharma, 2021-09-07 This book presents a comprehensive study of different tools and techniques available to perform network forensics Also various aspects of network forensics are reviewed as well as related technologies and their limitations This helps security practitioners and researchers in better understanding of the problem current solution space and future research scope to detect and investigate various network intrusions against such attacks efficiently Forensic computing is rapidly gaining importance since the amount of crime involving digital systems is steadily increasing Furthermore the area is still underdeveloped and poses many technical and legal challenges The rapid development of the Internet over the past decade appeared to have facilitated an increase in the incidents of online attacks There are many reasons which are motivating the attackers to be fearless in carrying out the attacks For example the speed with which an attack can be carried out the anonymity provided by the medium nature of medium where digital information is stolen without actually removing it increased availability of potential victims and the global impact of the attacks are some of the aspects Forensic analysis is performed at two different levels Computer Forensics and Network Forensics Computer forensics deals with the collection and analysis of data from computer systems networks communication streams and storage media in a manner admissible in a

court of law Network forensics deals with the capture recording or analysis of network events in order to discover evidential information about the source of security attacks in a court of law Network forensics is not another term for network security It is an extended phase of network security as the data for forensic analysis are collected from security products like firewalls and intrusion detection systems The results of this data analysis are utilized for investigating the attacks Network forensics generally refers to the collection and analysis of network data such as network traffic firewall logs IDS logs etc Technically it is a member of the already existing and expanding the field of digital forensics Analogously network forensics is defined as The use of scientifically proved techniques to collect fuses identifies examine correlate analyze and document digital evidence from multiple actively processing and transmitting digital sources for the purpose of uncovering facts related to the planned intent or measured success of unauthorized activities meant to disrupt corrupt and or compromise system components as well as providing information to assist in response to or recovery from these activities Network forensics plays a significant role in the security of today s organizations On the one hand it helps to learn the details of external attacks ensuring similar future attacks are thwarted Additionally network forensics is essential for investigating insiders abuses that constitute the second costliest type of attack within organizations Finally law enforcement requires network forensics for crimes in which a computer or digital system is either being the target of a crime or being used as a tool in carrying a crime Network security protects the system against attack while network forensics focuses on recording evidence of the attack Network security products are generalized and look for possible harmful behaviors This monitoring is a continuous process and is performed all through the day However network forensics involves post mortem investigation of the attack and is initiated after crime notification There are many tools which assist in capturing data transferred over the networks so that an attack or the malicious intent of the intrusions may be investigated Similarly various network forensic frameworks are proposed in the literature

Handbook of Research on Securing Cloud-Based Databases with Biometric Applications Deka, Ganesh Chandra, 2014-10-31 Cloud technologies have revolutionized the way we store information and perform various computing tasks With the rise of this new technology the ability to secure information stored on the cloud becomes a concern The Handbook of Research on Securing Cloud Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques Exploring methods of access by identification including the analysis of facial features fingerprints DNA dental characteristics and voice patterns this publication is designed especially for IT professionals academicians and upper level students seeking current research surrounding cloud security

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 The Promise of New Technologies in an Age of New Health Challenges A.J. Maeder,K. Ho,A.

Marcelo,2016-11-24 There is a changed emphasis in many health services with conventional pressures such as budget and workforce constraints combined with the indirect forces of social change and strategic direction bringing about the need for more flexible approaches for the longer term By enabling different care models and delivery channels telehealth offers demonstrably effective and sustainable solutions for issues such as access to and quality of care This book presents 18 papers delivered at the 5th Global Telehealth Conference held in Auckland New Zealand in November 2016 The theme chosen for Global Telehealth 2016 is The Promise of New Technologies in an Age of New Health Challenges and the papers included here cover a wide variety of topics from theoretical and abstract contributions through to discussions of practical projects and highly specific applied contributions The book also includes two invited papers which detail recent contributions to two global issues in which telehealth plays a major role universal health coverage and personal health monitoring With papers ranging in scope from computer assisted screening technology for diabetic retinopathy to behavior change through computer games this book will be of interest to all those involved in the design and provision of healthcare services

Visual Sensors Oscar Reinoso,Luis Payá,2020-03-27 Visual sensors are able to capture a large quantity of information from the environment around them A wide variety of visual systems can be found from the classical monocular systems to omnidirectional RGB D and more sophisticated 3D systems Every configuration presents some specific characteristics that make them useful for solving different problems Their range of applications is wide and varied including robotics industry agriculture quality control visual inspection surveillance autonomous driving and navigation aid systems In this book several problems that employ visual sensors are presented Among them we highlight visual SLAM image retrieval manipulation calibration object recognition navigation etc

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web sep 4 2023 the haiku is a japanese poetic form that consists of three lines with five syllables in the first line seven in the second and five in the third the haiku developed from the hokku the opening three lines of a longer poem known as a tanka the haiku became a separate form of poetry in the 17th century

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web aug 9 2022 a haiku is a type of japanese poem that always uses the same number of syllables in a three line format the first line is five syllables the second line is seven syllables the third line is five syllables unlike other poems haikus usually don t rhyme

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