Fingerprint Recognition

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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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Suresh Chandra Satapathy,Amit Joshi

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Lee and Gaensslen's Advances in Fingerprint Technology Robert Ramotowski,2012-10-18 Reflecting new discoveries in fingerprint science Lee and Gaensslen s Advances in Fingerprint Technology Third Edition has been completely updated with new material and nearly double the references contained in the previous edition The book begins with a detailed review of current widely used development techniques as well as some older histo **The Biometric Industry Report - Forecasts and Analysis to 2006** M Lockie,2012-12-02 Biometrics the physiological and or behavioural characteristics that can be used to verify the identity of an individual are no longer just being used in high security locations they are now in use in major mainstream government and commercial applications Since September 11 the heightened awareness of security issues is driving forward the adoption of biometrics within numerous application environments Coupled with a dramatic decrease in the price of such systems and the formulation of comprehensive industry standards the market looks set for rapid growth over the next 5 years The second edition of The Biometric Industry Report Forecasts and Analysis to 2006 examines the current use and future growth of biometrics It analyses the trends in markets technologies and industry structure and profiles the major players The report provides key market statistics and forecasts essential for companies to plot their future growth strategies For a PDF version of the report please call Sarah Proom on 44 0 1865 843181 for price details **Fingerprinting Analysis and Quality Control Methods of Herbal Medicines** Ravindra Kumar Pandey,Shiv Shankar Shukla,Amber Vyas,Vishal Jain,Parag Jain,Shailendra Saraf,2018-07-03 Due to the increase in the consumption of herbal medicine there is a need to know which scientifically based methods are appropriate for assessing the quality of herbal medicines Fingerprinting has emerged as a suitable technique for quality estimation Chemical markers are used for evaluation of herbal medicines Identification and quantification of these chemical markers are crucial for quality control of herbal medicines This book provides updated knowledge on methodology quality assessment toxicity analysis and medicinal values of natural compounds Fingerprint Detection with Lasers, Second Edition, Menzel,1999-03-03 Offers up to date treatment of fingerprint detection with lasers including basic principles and equipment established photoluminescence based detection techniques and a range of emerging techniques This second edition summarizes information on time resolved fingerprint detection transition selection rules image intensifiers and CCD cameras uses of photoluminescence in criminalistics and scientific principles underlying figerprint detection **Product/Process Fingerprint in Micro Manufacturing** Guido Tosello,2019-05-31 The continuous miniaturization of products and the growing complexity of their embedded multifunctionalities necessitates continuous research and development efforts regarding micro components and related micro manufacturing technologies Highly miniaturized systems manufactured using a wide variety of materials have found application in key technological fields such as healthcare devices micro implants mobility communications optics and micro electromechanical systems Innovations required for the high precision manufacturing of micro components can

specifically be achieved through optimizations using post process i e offline and in process i e online metrology of both process input and output parameters as well as geometrical features of the produced micro parts However it is of critical importance to reduce the metrology and optimization efforts since process and product quality control can represent a significant portion of the total production time in micro manufacturing To solve this fundamental challenge research efforts have been undertaken in order to define investigate implement and validate the so called product process manufacturing fingerprint concept The product manufacturing fingerprint concept refers to those unique dimensional outcomes e g surface topography form error critical dimensions etc on the produced component that if kept under control and within specifications ensure that the entire micro component complies to its specifications The process manufacturing fingerprint is a specific process parameter or feature to be monitored and controlled in order to maintain the manufacture of products within the specified tolerances By integrating both product and process manufacturing fingerprint concepts the metrology and optimization efforts are highly reduced Therefore the quality of the micro products increases with an obvious improvement in production yield Accordingly this Special Issue seeks to showcase research papers short communications and review articles that focus on novel methodological developments and applications in micro and sub micro scale manufacturing process monitoring and control as well as micro and sub micro product quality assurance Focus will be on micro manufacturing process chains and their micro product process fingerprint towards full process optimization and zero defect micro manufacturing   *Computational Intelligence for Information Retrieval* Dharmender Saini,Gopal Chaudhary,Vedika Gupta,2021-12-14 This book provides a thorough understanding of the integration of computational intelligence with information retrieval including content based image retrieval using intelligent techniques hybrid computational intelligence for pattern recognition intelligent innovative systems and protecting and analysing big data on cloud platforms The book aims to investigate how computational intelligence frameworks are going to improve information retrieval systems The emerging and promising state of the art of human computer interaction is the motivation behind this book The book covers a wide range of topics starting from the tools and languages of artificial intelligence to its philosophical implications and thus provides a plethora of theoretical as well as experimental research along with surveys and impact studies Further the book aims to showcase the basics of information retrieval and computational intelligence for beginners as well as their integration and challenge discussions for existing practitioners including using hybrid application of augmented reality computational intelligence techniques for recommendation systems in big data and a fuzzy based approach for characterization and identification of sentiments   Trends in DNA Fingerprinting Research M. M. Reade,2005 DNA Fingerprinting is a method of identification that compares fragments of deoxyribonucleic acid DNA It is sometimes called DNA typing DNA is the genetic material found within the cell nuclei of all living things The techniques used in DNA fingerprinting also have applications law and law enforcement palaeontology archaeology various fields of biology and medical diagnostics In biological classification

it can help to show evolutionary change and relationships on the molecular level and it has the advantage of being able to be used even when only very small samples are available This book details several applications of this break through technique

Mining Intelligence and Knowledge Exploration Purushothama B. R.,Veena Thenkanidiyoor,Rajendra Prasath,Odelu Vanga,2020-12-19 This book constitutes the refereed conference proceedings of the 7th International Conference on Mining Intelligence and Knowledge Exploration MIKE 2019 held in Goa India in December 2019 The 31 full papers were carefully reviewed and selected from 83 submissions The accepted papers were chosen on the basis of research excellence which provides a body of literature for researchers involved in exploring developing and validating learning algorithms and knowledge discovery techniques Accepted papers were grouped into various subtopics including evolutionary computation knowledge exploration in IoT artificial intelligence machine learning image processing pattern recognition speech processing information retrieval natural language processing social network analysis security fuzzy rough sets and other areas

Biometric Authentication Davide Maltoni,Anil Jain,2004-07-08 This book constitutes the refereed proceedings of the International Biometric Authentication Workshop BioAW 2004 held in Prague Czech Republic in May 2004 as part of ECCV 2004 The 30 revised full papers presented were carefully reviewed and selected for presentation The papers are organized in topical sections on face recognition fingerprint recognition template protection and security other biometrics and fusion and multimodal bioinformatics   **Forensic Fingerprints** Max M. Houck,2016-02-03 Forensic Fingerprints the latest in the Advanced Forensic Science Series which grew out of the recommendations from the 2009 NAS Report Strengthening Forensic Science A Path Forward serves as a graduate level text for those studying and teaching fingerprint detection and analysis and will also prove to be an excellent reference for forensic practitioner libraries and for use in casework Coverage includes fingerprint science friction ridge print examination AFIS foot and palm prints and the professional issues practitioners may encounter Edited by a world renowned leading forensic expert this book is a long overdue solution for the forensic science community Provides basic principles of forensic science and an overview of interpretation and comparative methods Contains information on the chemistry of print residue and the visualization of latent prints Covers fingerprint science friction ridge print examination AFIS and foot and palm prints Includes a section on professional issues from crime scene to court lab reports health and safety and certification Incorporates effective pedagogy key terms review questions discussion questions and additional reading suggestions   **Implementing Computational Intelligence Techniques for Security Systems Design** Albastaki, Yousif Abdullatif,Awad, Wasan,2020-02-14 Recently cryptology problems such as designing good cryptographic systems and analyzing them have been challenging researchers Many algorithms that take advantage of approaches based on computational intelligence techniques such as genetic algorithms genetic programming and so on have been proposed to solve these issues Implementing Computational Intelligence Techniques for Security Systems Design is an essential research book that explores the application of computational intelligence and other advanced

techniques in information security which will contribute to a better understanding of the factors that influence successful security systems design Featuring a range of topics such as encryption self healing systems and cyber fraud this book is ideal for security analysts IT specialists computer engineers software developers technologists academicians researchers practitioners and students   The finger print Mr. Rohit Manglik,2024-01-01 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels   **IOT with Smart Systems** Jyoti Choudrie,Parikshit Mahalle,Thinagaran Perumal,Amit Joshi,2022-10-05 This book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the Sixth International Conference on Information and Communication Technology for Intelligent Systems ICTIS 2022 held in Ahmedabad India The book is divided into two volumes It discusses the fundamentals of various data analysis techniques and algorithms making it a valuable resource for researchers and practitioners alike   *Advances in Neural Networks - ISNN 2009* Wen Yu,Haibo He,Nian Zhang,2009-05-21 This book and its companion volumes LNCS vols 5551 5552 and 5553 constitute the proceedings of the 6th International Symposium on Neural Networks ISNN 2009 held during May 26 29 2009 in Wuhan China Over the past few years ISNN has matured into a well established premier international symposium on neural n works and related fields with a successful sequence of ISNN symposia held in Dalian 2004 Chongqing 2005 Chengdu 2006 Nanjing 2007 and Beijing 2008 Following the tradition of the ISNN series ISNN 2009 provided a high level inter tional forum for scientists engineers and educators to present state of the art research in neural networks and related fields and also to discuss with international colleagues on the major opportunities and challenges for future neural network research Over the past decades the neural network community has witnessed tremendous forts and developments in all aspects of neural network research including theoretical foundations architectures and network organizations modeling and simulation pirical study as well as a wide range of applications across different domains The recent developments of science and technology including neuroscience computer science cognitive science nano technologies and engineering design among others have provided significant new understandings and technological solutions to move the neural network research toward the development of complex large scale and n worked brain like intelligent systems This long term goal can only be achieved with the continuous efforts of the community to seriously investigate different issues of the neural networks and related fields   Audio- and Video-Based Biometric Person Authentication Josef Bigun,Fabrizio Smeraldi,2003-05-15 This book constitutes the refereed proceedings of the Third International Conference on Audio and Video Based Biometric Person Authentication AVBPA 2001 held in Halmstad Sweden in June 2001 The 51 revised papers presented together with three invited papers were carefully reviewed and selected for

inclusion in the book The papers are organized in topical sections on face as biometrics face image processing speech as biometrics and speech processing fingerprints as biometrics gait as biometrics and hand signature and iris as biometrics

    Information and Communication Technology for Intelligent Systems Suresh Chandra Satapathy,Amit Joshi,2018-12-14 The book gathers papers addressing state of the art research in all areas of Information and Communication Technologies and their applications in intelligent computing cloud storage data mining and software analysis It presents the outcomes of the third International Conference on Information and Communication Technology for Intelligent Systems which was held on April 6 7 2018 in Ahmedabad India Divided into two volumes the book discusses the fundamentals of various data analytics and algorithms making it a valuable resource for researchers future studies   *Information and Communication Technology for Intelligent Systems (ICTIS 2017) - Volume 1* Suresh Chandra Satapathy,Amit Joshi,2017-08-07 This volume includes 74 papers presented at ICTIS 2017 Second International Conference on Information and Communication Technology for Intelligent Systems The conference was held on 25th and 26th March 2017 in Ahmedabad India and organized jointly by the Associated Chambers of Commerce and Industry of India ASSOCHAM Gujarat Chapter the G R Foundation the Association of Computer Machinery Ahmedabad Chapter and supported by the Computer Society of India Division IV Communication and Division V Education and Research The papers featured mainly focus on information and communications technology ICT for computation algorithms and data analytics The fundamentals of various data analytics and algorithms discussed are useful to researchers in the field   <u>Intelligence Science and Big Data Engineering</u> Yi Sun,Huchuan Lu,Lihe Zhang,Jian Yang,Hua Huang,2017-09-14 This book constitutes the proceedings of the 7th International Conference on Intelligence Science and Big Data Engineering IScIDE 2017 held in Dalian China in September 2017 The 48 full papers and 14 short papers presented in this volume were carefully reviewed and selected from 121 submissions They deal with statistics and learning deep neural networks faces and people objects classification and clustering imaging biomedical signal processing and recommendation

    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 **Innovations in Computer Science and Engineering** H. S. Saini,Rishi Sayal,A. Govardhan,Rajkumar Buyya,2022-03-25 This book features a collection of high quality peer reviewed research papers presented at the 9th International Conference on Innovations in Computer Science Engineering ICICSE 2021 held at Guru Nanak Institutions Hyderabad India on September 3 4 2021 It covers the latest research in data science and analytics cloud computing machine learning data mining big data and analytics information security and privacy wireless and sensor networks and IoT applications artificial intelligence expert systems natural language processing image processing computer vision and artificial neural networks

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