# **Fingerprint Recognition**

Nalini Ratha,Ruud Bolle

Handbook of Fingerprint Recognition Davide Maltoni, Dario Maio, Anil K. Jain, Salil Prabhakar, 2006-04-06 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.

<u>Handbook of Fingerprint Recognition</u> Davide Maltoni, Dario Maio, Anil K. Jain, Salil Prabhakar, 2009-04-21 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.

<u>Automatic Fingerprint Recognition Systems</u> Nalini Ratha,Ruud Bolle,2007-05-08 An authoritative survey of intelligent fingerprint-recognition concepts, technology, and systems is given. Editors and contributors are the leading researchers and applied R&D developers of this personal identification (biometric security) topic and technology. Biometrics and pattern recognition researchers and professionals will find the book an indispensable resource for current knowledge and technology in the field.

<u>Handbook of Fingerprint Recognition</u> Davide Maltoni,2003 This professional reference provides authoritative and comprehensive coverage of all major topics, concepts, and methods for fingerprint security systems.

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.

**Computational Algorithms for Fingerprint Recognition** Bir Bhanu,Xuejun Tan,2012-12-06 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.

Intelligent Biometric Techniques in Fingerprint and Face Recognition Shigeyoshi Tsutsui,2022-01-27 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. Authored by a panel of international experts, this book presents a thorough treatment of established and emerging applications and techniques relevant to this field.

Automatic Fingerprint Recognition Systems Nalini Ratha, Ruud Bolle, 2013-04-16 An authoritative survey of intelligent fingerprint-recognition concepts, technology, and systems is given. Editors and contributors are the leading researchers and applied R&D developers of this personal identification (biometric security) topic and technology. Biometrics and pattern recognition researchers and professionals will find the book an indispensable resource for current knowledge and technology in the field.

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.

<u>A SURVEY ON VARIOUS APPROACHES TO FINGERPRINT MATCHING FOR PERSONAL VERIFICATION AND IDENTIFICATION</u> Shoba Dyre, C.P. Sumathi, 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.

Contactless 3D Fingerprint Identification Ajay Kumar, 2018-10-29 This important text/reference presents the first dedicated review of techniques for contactless 3D fingerprint identification, including novel and previously unpublished research. The text provides a systematic introduction to 3D fingerprint identification, covering the latest advancements in contactless 2D and 3D sensing technologies, and detailed discussions on each key aspect in the development of an effective 3D fingerprint identification system. Topics and features: introduces the key concepts and trends in the acquisition and identification of fingerprint images, and a range of 3D fingerprint imaging techniques; proposes a low-cost method for online 3D fingerprint image acquisition, and an efficient 3D fingerprint imaging approach using coloured photometric stereo; describes pre-processing operations on point cloud 3D fingerprint data, and explains the specialized operations for reconstructing 3D fingerprints from live finger scans; examines the representation of minutiae in 3D space, providing details on recovering these features from point cloud data, and on matching such 3D minutiae templates; reviews various 3D fingerprint matching methods, including binary surface code-based approaches and a tetrahedron-based matching approach; discusses the uniqueness of 3D fingerprints, evaluating the benefits of employing 3D fingerprint identification over conventional 2D fingerprint techniques. This unique work is a must-read for all researchers seeking to make further advances in this area, towards the exciting opportunities afforded by contactless 3D fingerprint identification for improving the hygiene, user convenience, and matching accuracy of fingerprint biometric technologies.

**State of the art in Biometrics** Jucheng Yang,Loris Nanni,2011-07-27 Biometric recognition is one of the most widely studied problems in computer science. The use of biometrics techniques, such as face, fingerprints, iris and ears is a solution for obtaining a secure personal identification. However, the old biometrics identification techniques are out of date. This goal of this book is to provide the reader with the most up to date research performed in biometric recognition and descript some novel methods of biometrics, emphasis on the state of the art skills. The book consists of 15 chapters, each focusing on a most up to date issue. The chapters are divided into five sections- fingerprint recognition, face recognition, iris recognition, other biometrics and biometrics security. The book was reviewed by editors Dr. Jucheng Yang and Dr. Loris Nanni. We deeply appreciate the efforts of our guest editors: Dr. Girija Chetty, Dr. Norman Poh, Dr. Jianjiang Feng, Dr. Dongsun Park and Dr. Sook Yoon, as well as a number of anonymous reviewers

Advanced Biometrics David Zhang, Guangming Lu, Lei Zhang, 2017-08-08 This book describes a range of new biometric technologies, such as high-resolution fingerprint, finger-knuckle-print, multi-spectral backhand, 3D fingerprint, tongueprint, 3D ear, and multi-spectral iris technologies. Further, it introduces readers to efficient feature extraction, matching and fusion algorithms, in addition to developing potential systems of its own. These advanced biometric technologies and methods are divided as follows: 1. High-Resolution Fingerprint Recognition; 2. Finger-Knuckle-Print Verification; 3. Other Hand-Based Biometrics; and 4. New Head-Based Biometrics. Traditional

biometric technologies, such as fingerprint, face, iris, and palmprint, have been extensively studied and addressed in many research books. However, all of these technologies have their own advantages and disadvantages, and there is no single type of biometric technology that can be used for all applications. Many new biometric technologies have been developed in recent years, especia lly in response to new applications. The contributions gathered here focus on how to develop a new biometric technology based on the requirements of essential applications, and how to design efficient algorithms that yield better performance.

Intelligent Biometric Techniques in Fingerprint and Face Recognition Lakhmi C. Jain,Ugur Halici,Isao Hayashi,S.B. Lee,Shigeyoshi Tsutsui,1999-06-29 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.

#### Computational Algorithms for Fingerprint Recognition Xuejun Tan, 2003

<u>Touchless Fingerprint Biometrics</u> Ruggero Donida Labati, Vincenzo Piuri, Fabio Scotti, 2015-08-14 Offering the first comprehensive analysis of touchless fingerprint-recognition technologies, Touchless Fingerprint Biometrics gives an overview of the state of the art and describes relevant industrial applications. It also presents new techniques to efficiently and effectively implement advanced solutions based on touchless fingerprinting. The most

Automated Fingerprint Identification Systems (AFIS) Peter Komarinski,2005-01-20 An easy-to-understand synopsis of identification systems, presenting in simple language the process of fingerprint identification, from the initial capture of a set of finger images, to the production of a Rapsheet. No other single work exists which reviews this important identification process from beginning to end. We examine the identification process for latent (crime scene) prints and how they are identified with these systems. While the primary focus is automated fingerprint identifications, the book also touches on the emergence and use of fingerprints in other biometric systems. Criminal justice administrators, policy makers, and students of forensic science and criminal justice will find a reference to the known limitations and advantages of these systems. This book provides information as to the critical and continual need for properly trained individuals as well as an understanding of the direct and indirect costs associated with maintaining these systems. An understanding of the entire system and what it means will prove invaluable. Why are there missed identifications? Why are identifications made on one database that are not made on another database? Key terms and issues are included, and well as suggestions for improving the overall number of identifications. The book will go beyond process and also discuss issues such as interoperability, management strategies for large databases, contract development, lights out verification and several other issues which impact automated identifications. - The first comprehensive title on this subject area - Outlines in detail the entire process of fingerprint gathering and identity verification - The future of AFIS will is discussed, including national standards in developing multi-agency cooperation/interoperability (U.S.) in addition to the use of AFIS identification world-wide.

Biometric Security Systems for Beginner Manish Mahant Manikpuri, Biometric security systems is core subject for PG students in information security, computer science, cyber security, forensic science and other related streams etc. This book is primarily intended to serve as a beginner's textbook in accordance with the syllabus of biometric security offered by CSVTU and various universities in India. In this book, a significant effort has been made to find simple ways to develop theoretical aspects of biometric systems. Neat and clear diagrams have been used for explanations. Author has also introduced case study and biometric programming concept in java. The author hopes that the book will fulfill the need of the readers and would welcome any suggestions towards the improvement of the book.

Automated Fingerprint Identification J. H. Wegstein, 1970 A procedure is described for determining whether two fingerprint impressions were made by the same finger. The procedure uses the x and y coordinates and the individual directions of the minutiae (ridge endings and bifurcations). The identity of two impressions is established by computing the density of clusters of points involving the differences in coordinates that are found in going from one of the fingerprint impression to the other. Experimental results using machine-read minutiae data are given along with results from a previously reported procedure that utilized constellations of minutiae in its matching process. (Author).

Fingerprint Matching Through Feature Extraction and Matrix Equalization Md. Shahadat Hossain, M. R. Islam, 2015-03-17 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 minutiaebased 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.

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