

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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Table of Contents Fingerprint Research Paper

1. Understanding the eBook Fingerprint Research Paper
 - The Rise of Digital Reading Fingerprint Research Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Fingerprint Research Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fingerprint Research Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fingerprint Research Paper
 - Personalized Recommendations
 - Fingerprint Research Paper User Reviews and Ratings
 - Fingerprint Research Paper and Bestseller Lists

5. Accessing Fingerprint Research Paper Free and Paid eBooks
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fingerprint Research Paper
 - Highlighting and Note-Taking Fingerprint Research Paper
 - Interactive Elements Fingerprint Research Paper
8. Staying Engaged with Fingerprint Research Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fingerprint Research Paper
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fingerprint Research Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Fingerprint Research Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fingerprint Research Paper
 - Fact-Checking eBook Content of Fingerprint Research Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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