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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 33767.6-2018

**Information technology -- Biometric sample quality -- Part 6: Iris
image data**

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Foreword

GB/T 33767 "Information Technology Biometric Sample Quality" is currently divided into the following sections.

- Part 1. Frameworks;
- Part 4. Fingerprint image data;
- Part 5. Face image data;
- Part 6. Iris image data.

This section is part 6 of GB/T 33767.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to the use of ISO /IEC 29794-6:2015 "Information Technology Biometric Sample Quality Part 6.

Iris Image Data (English version).

The Chinese documents that are consistent with the normatively quoted international documents in this section are as follows.

- GB/T 33767.1-2017 Quality of Information Technology Biometric Samples Part 1. Framework (ISO /IEC 29794-1.

2009, IDT)

Introduction

A method for evaluating the quality of a biometric sample by calculating a quality index to predict recognition under a given biometric identification system

Accuracy. If used properly, quality indicators help improve the functionality of the biometric system. For example, in the registration or identification process, it

They can reflect the integrity of the collected biometric data.

This section is used to define terminology and quantification methods related to characterization of iris image data quality, and to evaluate them for high confidence in output

Degree of potential for biometric matching decisions.

GB/T 30267.1 and GB/T 28826.1 add a quality field and specify a quality that is suitable for a definitive iris image

Range of scores. Annex B in GB/T 26237.6 describes the collection of iris image data and guidance on image quality. Do not

However, these standards do not address the quantitative composition or interpretation of iris image quality indicators. This section is supported by authoritative experience data.

The range of values for the relevant variable. In other cases, the range of values of the relevant variables is considered non-normative.

The first five chapters of this section are. scope, compliance, normative references, terms and definitions, and abbreviations. Chapter 6 presents a

The series is used to evaluate the quality index of the iris image quality. The impact of some indicators on the recognition rate has been quantified and clearly defined as normative; other means

For reference only, it is used to provide valuable information for the follow-up work of the biometric identification system. Some of the indicators introduced in Chapter 6 apply to

For single image analysis, some indicators apply to the quality comparison of two images (collected from the same eye). Chapter 7 defines the generation of compliance

The quality parameters required for the iris image provide guidance for the acquisition equipment manufacturer. Chapter 8 presents the coding of iris image quality data records method.

Information Technology Biometric Sample Quality

Part 6. Iris Image Data

1 Scope

This part of GB/T 33767 specifies the following.

- Method for quantifying iris image quality;
- Specification requirements for hardware and software for generating iris images;
- Normative requirements for hardware and software to measure the availability of iris

images;

--- Terms and definitions used to quantify iris image quality;

--- Standardized coding of iris image quality.

This section does not apply to the performance evaluation of specific iris image quality assessment algorithms. Appendix A of this section indicates the applicable to this section

Compliance test methods, test statements, and test procedures.

2 Compliance

When the measurement values required by 6.2.X.3 meet the effective range or threshold specified in 6.2.X.4, the iris image shall be considered fully usable.

When two images acquired from an iris meet the requirements of 6.4, specifically when they are calculated using the method described in 6.4.X.3

The two iris images shall be considered fully usable when the effective range or threshold specified in 6.4.X.4 is sufficient.

When the structure and data values of the iris image quality records meet the format requirements specified in Chapter 8 (Iris image quality data records) and its

When the mass value is calculated by the method described in 6.2.X.3, the iris image quality record should be considered as meeting the criteria of this section. If you meet the 8th

The normative requirements set forth in the chapter indicate that the first and second conformance requirements defined in Appendix A of ISO /IEC 19794-1.2011 are met;

In accordance with the normative requirements of 6.2.X.3, it means that the three-level conformance requirements defined in Appendix A of ISO /IEC 19794-1.2011 are met.

If the collection equipment meets the regulatory requirements described in chapter 7, the equipment complies with this part.

The calculation of iris image availability shall comply with the requirements of 6.2, which is specifically the calculation method described in 6.2.X.3. Paired image availability

The calculation shall be evaluated in accordance with the normative requirements of 6.4, specifically the calculation method described in 6.4.X.3.

If the quality of one or more quality indicators in the implementation of this indicator is unacceptable (low quality), the target should be re-acquired.

The other image data until.

--- Capture fully compliant images; or

---Confirm that in the applicable limited time, repeat acquisition can still not obtain satisfactory quality (eg correct registration). under these circumstances,

Select a non-conforming image as the best possible candidate image.

3 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

ISO /IEC 19785-2 Information technology public biometric exchange format framework Part 2. Biometric registration machine

Construction Techniques

(Information technology-Common biometric exchange formats framework-Part 2. Pro-

Cedures for the operation of the biometric registration authority)

ISO /IEC 19794-1.2011 Information technology biometrics data exchange format Part 1. Framework (Information