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

GB/T 29268.2-2012

**Information technology -- Biometric performance testing and
reporting -- Part 2: Testing methodologies for technology and
scenario evaluation**

信息技术 生物特征识别性能测试和报告 第2部分：技术与场景评价的测试方法
(English Translation)

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Foreword

GB/T 29268 "Information technology - Biometric performance testing and reporting" is divided into the following seven sections.

- Part 1. Principles and Framework;
- Part 2. Test methods and technology scene evaluation;
- Part 3. Modal specific tests;
- Part 4. Interoperability performance testing;
- Part 5. biometric access control system scene evaluation;
- Part 6. Test methods of performance evaluation;
- Part 7. biometric identification card alignment algorithm testing.

This section GB/T 29268 Part 2.

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

This section uses the translation method identical with the international standard ISO/IEC

19795-2:2007 "Information technology - Biometric performance testing and the second part of the report. Test Methods "Technology and Evaluation scene.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 26237.2-2011 Information technology - Biometric data interchange formats - Part 2. Finger minutiae data (ISO/IEC 19794-2:2004, NEQ) this part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section drafted by. China Electronics Standardization Institute, Chinese Academy of Sciences Institute of Automation.

Introduction

This section refers to two types of specific biometric performance testing methods. Technology and Evaluation scene. Most biometric identification Testing can be attributed to these two categories. Technical evaluation using the established database to evaluate the registration and alignment algorithms, and evaluation of the scene Through real-time acquisition of simultaneous evaluation of sensors and algorithms. The former purpose is to get a lot of match scores and candidate list came the ability to distinguish between known algorithm, which is used to test the performance of the system under test in a simulated environment, including collaboration capabilities of the system.

This section based on GB/T 29268.1-2012 the principles, framework and specific demands put forward, but one of the theories and principles can for a wide variety of test environments.

This section is intended for the biometric system developers, deployers and users a standard set of test methods, including. biological Feature recognition performance test design, execution and reporting. Through this method, you can get a variety of techniques in different usage scenarios and environmental Benchmark performance.

Information technology - Biometric performance testing and reporting Part 2. Test methods and technology scene evaluation

1 Scope

This section GB/T 29268 specifies the following two requirements.

--- Development and technology evaluation, scenario evaluation protocol described in detail;

--- Implementation and reporting to reflect the biometric evaluation of relevant parameters.

This section applies to a biometric system and algorithm performance testing requirements and recommendations for data collection, analysis and performance evaluation reports.

Performance Evaluation of two main types. technology assessment and scenario evaluation.

2 Compliance

Any test subject to the provisions of this section with respect to the technical evaluation or scene evaluation.

Technical testing and scenario testing, there may be differences in the meaning of the same words, within the meaning will be different. Furthermore, for identification Systems and verification systems, these words there are also differences. In order to more clearly express this standard, within the meaning of the words in each section specific meaning generation Si shown in Table 1.

Table 1 Evaluation Method and match types in the chapter obey rules

Evaluation of match type scope Technical or scene recognition or validation Chapters 5 and 8 Chapter 6 Recognition technology, in addition to outside 6.3.3 Technical validation in Chapter 6, in addition to outside 6.3.4 Scene Recognition Chapter 7, with the exception 7.3.4 Scene verification Chapter 7, with the exception 7.3.5

3 Normative References

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 29268.1-2012 Information technology - Biometric performance testing and reporting - Part 1. Principles and framework (ISO/IEC 19795-1:2006, IDT) ISO/IEC 19794-2:2004 Information technology - Biometric data interchange formats - Part 2. Finger minutiae data (Informationtechnology-Biometricdatainterchangeformats-Part 2. Fingerminutiaedata)

4 Terms and Definitions

GB/T 29268.1-2012 and as defined in the following terms and definitions apply to this document.