ICS 35.040
CCS L 71

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 26237.15-2022

Information technology - Biometric data interchange formats - Part 15: Palm crease image data

Issued on: October 14, 2022 **Implemented on: May 1, 2023**

Issued by: State Administration for Market Regulation, China National Standardization Administration

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is part 15 of GB/T 26237 "Information Technology Biometric Data Interchange Format". GB/T 26237 has

The following sections were published.

--- Part 1.Framework;

--- Part 2.Fingerprint minutiae data;

--- Part 3.Fingerprint data;

--- Part 4.Fingerprint image data;

--- Part 5.Face image data;

--- Part 6.Iris image data;

--- Part 7.Signature/Signature Time Series Data;

--- Part 8.Fingerprint skeleton data;

--- Part 9.Vascular image data;

--- Part 10.Hand contour data;

--- Part 14.DNA data;

--- Part 15.Palmprint image data.

This document is modified using ISO /IEC 19794-15.2017 "Information Technology Biometric Data Interchange Format Part 15.

Palmprint Image Data". Compared with ISO /IEC 19794-15.2017, this document has made the following structural adjustments.

--- Added 8.2.9, 8.5, 8.6 and Appendix A;

---8.2.10~8.2.15 correspond to 8.2.9~8.2.14 in ISO /IEC 19794-15.2017;

---Appendix B corresponds to Appendix A in ISO /IEC 19794-15.2017, Appendix C corresponds to ISO /IEC 19794-15.2017

Appendix B, Appendix D corresponds to Appendix C in ISO /IEC 19794-15.2017.

Compared with ISO /IEC 19794-15.2017, this document has many technical differences, in the outer margin of the clauses involved

Marked with a vertical single line (|). See Appendix A for a list of these technical differences and their reasons.

The following editorial changes have been made to this document.

--- Added Appendix A (informative).

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 26237 "Information Technology Biometric Data Interchange Format" supports interoperability between biometric applications and systems

For different biometric identification modalities, the biometric identification data exchange format is specified, in line with GB/T 26237

Parties to the Biometric Data Exchange Format specified in can decode each other's biometric data to satisfy

The complexity requirements of object recognition technology applied to a variety of applications.

GB/T 26237 "Information Technology Biometric Data Interchange Format" is proposed to consist of 15 parts.

--- Part 1.Framework. The purpose is to specify the general content, meaning and representation and conformance to biometric data formats.

sex test method.

--- Part 2.Fingerprint minutiae data. The purpose is to specify a data record exchange format and compliance test for fingerprint minutiae points.

try method.

--- Part 3.Fingerprint data. The purpose is to specify a data record exchange format and a compliance test method for fingerprint profiles.

--- Part 4.Fingerprint image data. The purpose is to specify a data record exchange format and compliance test of fingerprint images

method.

--- Part 5.Face image data. The purpose is to specify a data record exchange format and compliance test for face images

method.

--- Part 6.Iris image data. The purpose is to specify a data record exchange format and compliance test for iris images

method.

--- Part 7.Signature/Signature time series data. The purpose is to specify a data record exchange format for signature/signature data

and compliance testing methods.

--- Part 8.Fingerprint skeleton data. The purpose is to specify a data record exchange format and compliance test of a fingerprint-type skeleton

method.

--- Part 9.Vascular image data. The purpose is to specify a data record exchange format and compliance test for human blood vessel images.

try method.

--- Part 10.Hand contour data. The purpose is to specify a data record exchange format and compliance test for hand contour data.

try method.

--- Part 11.Processed signature/signature dynamic data. The purpose is to specify a processed signature/signature dynamic data

Data record exchange formats and compliance testing methods.

--- Part 12.Face shape characteristic data. The purpose is to specify a data record exchange format and compliance test for a face shape characteristic

method.

--- Part 13.Sound data. The purpose is to specify a sound data recording exchange format and compliance test method.

--- Part 14.DNA data. The purpose is to specify a DNA data record exchange format and compliance testing method.

--- Part 15.Palmprint image data. The purpose is to specify a data record exchange format

and compliance test for human palmprint images.

try method.

Palmprint biometric identification technology has been developed for many years, with the development of imaging equipment technology, some reliable biometric identification methods

formula has been widely used. However, due to the lack of a standard format for interoperable information exchange among various suppliers, the

Palmprint biometric image information is rarely exchanged between devices.

This document specifies the image exchange format for biometric identification or verification technology using human palmprint images, which can be used for palmprint images

Data exchange and comparison. This document is applicable to the field of identification using palmprint image data, including equipment, applications and palmprint biology

Feature identification system, suitable for all palmprint biometric identification suppliers' specification documents.

Information Technology Biometric Data Interchange Format

Part 15.Palmprint Image Data

1 Scope

This document specifies the image exchange format for biometric identification or verification technology using human palmprint images, which can be used for palmprint images

Data exchange and comparison.

This document specifies the content and measurement units used for palmprint image exchange. The interchange format consists of mandatory and optional options, including scan

parameters, compressed or uncompressed image specifications, and vendor-specific information.

Information compiled and formatted in accordance with this document may be recorded on machine-readable media or transmitted on data communications equipment

transmission.

This document also specifies compliance test methods, test assertions and test procedures applicable to the above data record exchange formats. include.