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

GB/T 40694.9-2022

**Information technology - Pictograms, icons and symbols for
use with biometric systems - Part 9: Vascular applications**

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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 9 of GB/T 40694 "Information technology for biometric identification systems, diagrams, icons and symbols".

GB/T 40694 has released the following parts.

- Part 1. General;
- Part 5. Face application;
- Part 9. Vascular applications.

This document is modified to adopt ISO /IEC 24779-9:2015 "Cross-jurisdictional and social aspects of the implementation of biometrics in information technology"

Illustrations, Icons and Symbols for Biometric Identification Systems Part 9. Vascular Applications.

The technical differences between this document and ISO /IEC 24779-9:2015 and their reasons are as follows.

- Increased the applicable boundaries of this document (see Chapter 1) to comply with the drafting rules of national standards;
- Replaced ISO /IEC 19794-9 (see Chapter 3) with the normatively cited GB/T 26237.9 to adapt to our country's technology condition;
- Replaced ISO /IEC 24779-1 (see Chapter 3) with the normatively cited GB/T 40694.1 to

adapt to our country's technology

condition;

--- Added two terms "biometric identification (of)/biometric (of)" and "biometric identification" (see 3.1, 3.2) to comply with

Rules for drafting national standards.

The following editorial changes have been made to this document.

--- In order to harmonize with existing standards, change the name of the standard to "Illustrations, Icons and Symbols of Information Technology for Biometric Identification Systems"

No. Part 9.Vascular Applications";

--- Added a reference to the appendix (see Chapter 4) to comply with the drafting rules of national standards;

--- Added a reference to the table (see Chapter 5) to comply with the drafting rules of national standards;

--- The title "Method" of Appendix A is changed to "Design and Test Methods of Symbols and Icons", which is more appropriate to the content of the appendix.

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

This document is under the jurisdiction of the National Information Technology Standardization Technical Committee (SAC/TC28).

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Introduction

Biometrics are currently widely used in public terminals, including unattended, manned or only partially-attended terminal devices.

equipment; for example, auxiliary personnel manning multiple terminal equipment, or multiple terminal equipment on duty via CCTV and audio links. indicator organism

Language-independent symbols and icons that identify modalities and illustrate desired actions and behaviors, especially for occasional terminal users

important. Often, more presentation modalities (eg, visual, auditory, or tactile) are desired. This document deals with visual presentation only.

Due to the lack of widely used standard diagrams, icons and symbols, manufacturers use their own proprietary diagrams, icons and symbols for screen

Screen display, which may cause confusion for public users of self-service terminals. So a standard diagram, icon and symbology is required.

GB/T 40694 "Graphics, Icons and Symbols of Information Technology for Biometric Identification Systems" according to different biometric identification modes

According to the different needs of users, it is proposed to be composed of four parts.

--- Part 1.General. The purpose is to define a series of pictorial,

Icons and symbols for the design and use of biometric systems.

--- Part 4.Fingerprint application. The purpose is to define a series of pictograms, icons and symbols used in fingerprint identification to assist the public

User understands the concepts and processes of capturing and/or processing fingerprints using electronic systems.

--- Part 5.Face application. The purpose is to define a series of pictorial,

Icons and symbols for the design and use of face recognition systems.

--- Part 9.Vascular applications. The purpose is to define a series of diagrams, icons and symbols used in vessel image recognition, suitable for

Design and use of a blood vessel image recognition system.

ISO /IEC /T R24741 has described blood vessel image recognition technology as one of the current biometric identification technologies.

From the perspective of application system, such technology has been applied to bank ATMs to prevent counterfeiting of electronic bank cards, and has shown its advantages.

effectiveness. In addition, there are applications such as physical and logical access control.

Illustration of information technology used in biometric identification system,

Icons and Symbols Part 9.Vascular Applications

1 Scope

This document defines the symbols and icons used in vessel image recognition.

GB/T 40694 defines a series of symbols and icons associated with biometric registration, verification and/or identification equipment. icon used in

displayed on the visual display. Symbols are printed on signs and printed documents, including user documentation, distribution materials, training materials, installation/maintenance manuals

manuals, as well as on the casing of the device or on the keys and buttons.

These symbols and icons are intended to show the modality of biometric identification and to illustrate the proper preparation required when using a biometric identification system and behavioral necessity. GB/T 40694 focuses on the interaction with the data collection subject. Operators may use this document, but they

Other symbols and information may be required.

This document applies to the design and use of diagrams, icons and symbols for vascular image recognition systems.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 26237.9 Information Technology Biometric Data Interchange Format Part 9.Vascular Image Data

(GB/T 26237.9-2014, ISO /IEC 19794-9.2007, NEQ)

GB/T 40694.1 Graphics, Icons and Symbols of Information Technology for Biometric Identification Systems - Part 1.General

(GB/T 40694.1-2021, ISO /IEC 24779-1.2016, IDT)