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

GB/T 40694.4-2022

**Information technology - Pictograms, icons and symbols used
in biometrics systems - Part 4: Fingerprint 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 4 of GB/T 40694 "Illustrations, Icons and Symbols of Information Technology for Biometric Identification Systems".

GB/T 40694 has released the following parts.

--- Part 1. General;

--- Part 4. Fingerprint application;

--- Part 5. Face application;

--- Part 9. Vascular applications.

This document is modified to adopt ISO /IEC 24779-4:2017 "Interjurisdictional and social aspects of the implementation of biometrics in information technology"

Diagrams, Icons and Symbols for Biometric Identification Systems Part 4. Fingerprint Applications.

This document has the following structural adjustments compared to ISO /IEC 24779-4:2017.

--- Due to the deletion of informative appendix A and appendix B of ISO /IEC 24779-4:2017, appendix A of this document corresponds to

Annex C of ISO /IEC 24779-4:2017.

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. 4.Fingerprint Application";

--- Removed the URL of ISO and IEC maintaining standardized terms in "Terms and Definitions";

--- Delete the informative Appendix A and Appendix B, because its content describes the research process of the relevant results in the international standard.

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

Introduction

At present, biometric identification technology has been widely used in public terminals. These terminals will be placed in a variety of environments, including unattended,

Manned or only partially manned terminal equipment; for example, one person on duty to several terminal equipment, or through CCTV and audio links

Multiple terminal devices on duty on the road.

Language-independent symbols (such as icons) that indicate biometric and/or command modality are especially important for occasional users.

Often, more presentation methods (eg, visual, auditory, or tactile) are desired. The GB/T 40694 multipart standard only addresses visual presentation issues.

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 planned to be composed of 4 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 icons, 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.

Illustration of information technology used in biometric identification system,

Icons and Symbols Part 4.Fingerprint Applications

1 Scope

This document contains a series of diagrams, icons and symbols to help the general public understand the concept of collecting and/or processing fingerprints using electronic systems

thought and process. This series of illustrations, icons and symbols aims to.

- identify the type of biometric device;
- Provide static instructions related to fingerprint identification devices;
- Demonstrate dynamic real-time information related to fingerprint identification devices;
- Indicates the status of the fingerprint recognition device.

In order to provide these functions, this series of illustrations, icons and symbols includes directional illustrations, icons and symbols and real-time action or feedback diagrams

signs, icons and symbols. These fingerprint recognition device illustrations, icons and symbols can be classified into the following types.

- Finger or hand universal biometric identification. types of finger, four-finger, hand device.
- Finger or hand placement.
 - * The location of biometric identification and the effect to be displayed in the next step;
 - * Hand orientation (switching hands).
- Finger or hand quality feedback.
 - * Press (add or reduce force);
 - * Raise or lower the angle.
- Finger or hand position.
 - * hand or finger orientation;
 - * necessary finger or hand movement (forward, backward, lateral);
 - * rotation;
 - * change the angle;

* Roll your finger.

Although the illustrations, icons and symbols are shown individually, the illustrations, icons and symbols are intended to be combined to fully illustrate the interaction of fingerprints.

Other instructions may be used, for example, in a customs or immigration environment, where a process consisting of individual diagrams, icons and symbols can additionally

Shown as.

- a series of posters while waiting to use the biometric identification system;
- A series of dynamic pictures on the biometric identification console;
- an animated video or a series of moving pictures while waiting to use the biometric identification system;
- Instruction leaflet while waiting to use the biometric identification system.

This document focuses primarily on communication with data collection subjects. Operators may use this document, but they may also require additional number and information.

2 Normative references

There are no normative references in this document.