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**Information technology - Biometrics - Test methods for face
recognition system**

信息技术 生物特征识别 人脸识别系统测试方法

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

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1 Scope

GB/T 42981-2023 gives the test methods for face recognition systems. Vendors quote accuracy figures that are true of the dataset they were measured on and rarely of the deployment, and the number that matters operationally - how often the system accepts the wrong person, and how easily it is fooled by a photograph, a screen or a mask - is not the number usually quoted. The standard fixes how a system is put to the test. It sets the general requirements covering the test environment, the test tools and the test database, then the functional tests - image capture, image analysis, data storage, face comparison, the recognition decision and the management functions - and the performance tests, with an annex giving the test data and the presentation attack detection test methods, the liveness detection performance methods and the indicators and their calculation. It took effect on 1 April 2024.

This document stipulates the general requirements for face recognition system testing, and describes the functional testing methods and performance testing methods of face recognition systems, and liveness detection testing methods. This document is applicable to third-party inspection and testing institutions that carry out face recognition system testing, development and application of face recognition systems. Carry out testing activities with reference to this document.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 35273 Information Security Technology Personal Information Security Specifications

GB/T 40660 Basic requirements for biometric information protection in information security technology

GB/T 41772-2022 Technical requirements for information technology biometric face recognition systems

3 Terms and definitions

The terms and definitions defined in GB/T 41772-2022 and the following apply to this document.

3.1 technology testtechnologytest Use pre-collected test data to conduct functional or performance testing of facial recognition systems or components.

3.2 scenario test scenario test Use real test subjects to pass the face recognition system on-site to conduct functional or performance testing.

4 Abbreviations

The following abbreviations apply to this document. FRR False Rejection Rate (FalseRejectionRate)

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