

Face ID

Product Introduction

Product Documentation



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Product Overview

Tencent Cloud FaceID is a service kit used to verify users' identity information. It provides features such as liveness detection and 1:1 face comparison to meet various identity verification needs in industries such as social security, finance, and insurance.

Features

Liveness detection

Liveness detection can meet the high security requirements of facial recognition in different verification scenarios. It can analyze videos and decide whether they come from a live person or a fake, and guard against presentation attacks such as photos, videos, and static 3D models. Currently, it supports lip movement, motion silent live detection, etc.

Face comparison

Face comparison can calculate the similarity of facial features between two faces and automatically perform identity verification. It is based on massive amounts of face data and technologies such as high-dimensional LBP, PCA, Bayesian LDA, metric learning, transfer learning, and deep neural network. With an accuracy rate of 99.80% as tested during LFW (a database for face verification) in 2017, it supports face recognition and verification in different scenarios regardless of age, posture or lighting conditions.

Strengths

Last updated : 2020-07-21 11:19:34

Leading Algorithms

Tencent Cloud's face comparison algorithms have set records in multiple international contests. It achieved an industry-leading accuracy rate of 99.80% during LFW, which is recognized internationally as one of the most challenging face image datasets. In business scenarios, with a false acceptance rate (FAR) of 0.01%, FaceID has a true accept rate (TAR) over 98%.

Security and Reliability

Leveraging Tencent's years of security practices and big data capabilities, liveness detection helps guard against spoofed images, videos, and static 3D models to protect your business.

Use Cases

Last updated : 2020-07-21 11:19:57

Finance

Typical scenarios: bank account opening and insurance verification

ID card recognition can be used widely in industries such as banking and securities where customer identity must be verified for remote account opening and money transfer. It helps banks reduce labor costs and improve customer experiences.

Commercial insurance companies and social security institutions may face the situation where the identity of the insured cannot be verified as he or she cannot be present due to illness, age, etc. FaceID provides remote face verification services to effectively prevent insurance frauds and other risks.

Identity Registration

Typical scenarios: internet access in internet café and hotel check-in

Per laws and regulations, identity registration is required in places such as internet cafés. In this case, the receptionist can call Tencent Cloud FaceID services to complete customer identity verification and registration before granting any internet access.

Telecommunications

Typical scenarios: SIM card registration, activation, etc. with carriers

To protect social security and prevent cell phone frauds where criminals obtain your information to set up an account in your name, identity registration is required to use phone services (including landline telephones, mobile phones, wireless Internet cards, and broadband services).