IDEMIA

Leader in Algorithm Accuracy and Fairness

IDEMIA demonstrates undisputed leadership in the field of biometric matching. This is highlighted in multiple third-party tests, where our algorithms consistently feature among the top performers in accuracy, and where our facial recognition algorithms outrank the rest of the top 20 most accurate algorithms in terms of fairness.

99.88% Accuracy in NIST FRVT

In the U.S. National Institute of Standards and Technology (NIST) Face Recognition Vendor Test (FRVT) in Sept. 2022, the IDEMIA algorithm counted among the top-ranked algorithms in all use cases and dataset sizes, making the algorithm the most consistent solution among 378+ submissions. It achieved one of the highest accuracy scores (99.87%) on the largest dataset, and far outranked the rest of the top 20 most accurate submissions in unbiased matching relative to race, gender, and age.

Top Performer in DHS Biometric Rally

In the U.S. Department of Homeland Security (DHS) annual Biometric Technology Rally, IDEMIA's combination of matching system and acquision system resulted in the highest accuracy score overall ranking at 99.7%, placing it among the top performers at the rally. IDEMIA's matching system delivered transaction times of under four seconds and a satisfaction rate of over 95%, positioning it in the top of stability across all demographic groups.
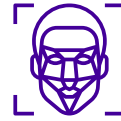
Ranked #1 in NIST mFIT Challenge

IDEMIA earned the first prize and the First Responder's Choice award for usability of contactless fingerprint capture during the 2022 NIST Mobile Fingerprinting Innovation Technology (mFIT) Challenge. The mFit challenge advances innovative mobile fingerprint capture solutions that support the unique requirements of law enforcement officers.

Ranked #1 in NIST Fingerprint Matching

IDEMIA ranked first on most data sets in the latest NIST Proprietary Fingerprint Template (PFT) III benchmark in Automated Fingerprint Identification Section (AFIS) class algorithms (Aug. 2022). It measured performance of one-to-one fingerprint matching. IDEMIA achieved superior performance ratings, ranking first out of 17 of the 22 scenarios. IDEMIA also ranked first in the NIST Evaluation of Latent Fingerprint Technologies (ELFT). IDEMIA achieved the most accurate matching algorithms for both fingerprint and palm datasets with accuracy 7% to 60% higher than other algorithms.

Ranked #1 in Tattoo Recognition Technology

NIST assesses comparative and absolute tattoo accuracy and matching technology. IDEMIA ranked first in both Tattoo Recognition Technology-Evaluation (Tatt-E) Performance of Tattoo Identification Algorithms and The Tattoo Recognition Technology–Challenge (Tatt-C). These measure the capability to perform automated image-based tattoo recognition.

Ranked #1 in NIST IREX 10

IDEMIA landed first place in the latest NIST Iris Exchange (IREX) 10, for single-eye accuracy (Aug. 2022). IDEMIA has also shown the best quality estimation algorithm.

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