



A Brief History of Facial Recognition

1. Holistic matching method

Holistic matching facial recognition technology took into account the whole face region and used different types of data sets to come up with hits and misses. It would have such unique features as the distance between distinct facial features like the eyes. It would also employ the pattern recognition technology that helped distinguish between different angles of equally distinguishable facial features like the nose, eye and lip curves.

The holistic matching type of facial recognition was pioneered in the periods leading to the 21st century.

2. Feature-based method

This new type of facial recognition employed the geometric and structural classifier tools to identify more uniquely identifiable facial features.

These tools helped the system come up with such features as facial edges, curves and even lines. It would go on to record a higher facial recognition score when compared with the holistic approach. But it too had its crippling limitations that inhibited its mainstream application.

3. Hybrid

While there are several and differently abled facial recognition tools in use today, they all are broadly referred to as the hybrid types of face id systems.

These took advantage of the successes reported by both the holistic matching and feature based versions of the face identification technology to come up with a more sophisticated and more accurate face recognition tools.

4. Skin texture analysis

Skin texture analysis is a progressive recognition tool that threatens to break away from the larger hybrid technology. The technology captures the unique lines, spots and patterns on an individual's skin and analyses them for a match.

5. Thermal cameras

This represents a more advanced form of facial recognition that hopes to tame the errors associated with facial expressions changes or makeup distortion.

This type of face id verification only captures the individual's shape of the head while ignoring such accessories as glasses or makeup.