Skeleton·ID

Fast, accurate and objective human identification

Global demand for human identification

Personal identity is a fundamental human right declared by the UN. Missing persons and unidentified human remains constitute a major global problem of legal, social, and political importance.

ID in everyday police work

Every day, authorities need to identify thousands of cadavers using scientific methods. The gold standard for identification is DNA profiling and AFIS software, but due to a lack of ante-mortem data, these methods can often not be applied.

Migration

Over 20.000 migrants have died trying to cross the Mediterranean in the last 7 years. When considering other migration routes to Europe or the United States, these numbers are even higher. Often, the only ante-mortem data available are photos collected by NGOs.

Enforced disappearances

Around the world, dictatorships, civil wars, and organized crime are responsible for the loss of hundreds of thousands of lives. Usually, the available data available for the victims differs greatly and scenarios require the processing of large amounts of data.
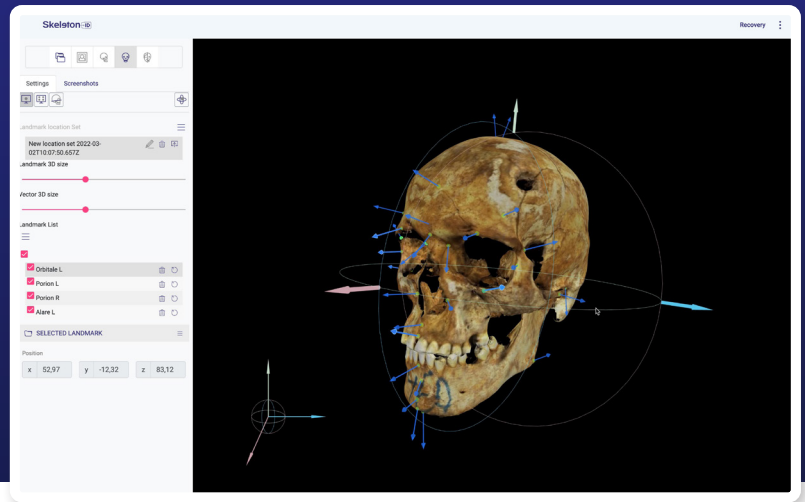
Historical cases

The US has a backlog of over 60.000 unidentified cadavers, in the EU, Spain alone has over 100.000. Almost any country has had an armed conflict in this or the last century and still not identified all victims. Often photos or x-rays of the deceased are still available.

Skeleton·ID

Skeleton-ID is a game-changing human identification software for forensic experts. It combines multiple identification techniques in the same tool and automates them with Artificial Intelligence.

Skeleton-ID can process different types of image data and reduces the effort for the expert from days/hours to minutes. It can also be applied to scenarios with large numbers of victims.

Craniofacial Superimposition

Comparative Radiography

Biological Profile

Dental Comparison

Facial Identification (Living subjects)

Age estimation (Living subjects)

AI-powered

Skeleton-ID can reduce identification time from days/hours to minutes, increase accuracy to up to 95%-99,9% while decreasing subjectivity and the potential for human error

Modular architecture

Modules allow expanding the functionality and applicability of Skeleton-ID. Experts can choose the right ID technique depending on the available ante-mortem/post-mortem data.

Scientific recognition

Skeleton-ID is the result of over 15 years of research in AI and anthropology. Panacea's R&D team has published over 100 peer-reviewed articles related to ID and registered 3 patents.

Skeleton-based identification

Skeleton-ID is combining multiple skeleton-based Identification techniques in one tool. Forensic anthropology and odontology techniques are especially suited for badly preserved cadavers, e.g. burnt, putrefied, skeletonized, that represent 40 to 50% of bodies subjected to autopsy.

Drastic reduction of time and cost
Fewer hours per person for each case and exponential savings in cases of multiple comparisons, e.g mass graves or database searches.

Higher number of solved cases
Skeleton-ID supports multiple identification techniques which allow experts to use different types ante-mortem and post-mortem data.

Higher success rates in legal proceedings
Skeleton-ID's AI is supporting the identification expert with objectivity, explainability, and traceability of the results.

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