

20 Follow The Fingerprints

Fingerprint

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A fingerprint is an impression left by the friction ridges of a human finger. The recovery of partial fingerprints from a crime scene is an important method of forensic science. Moisture and grease on a finger result in fingerprints on surfaces such as glass or metal. Deliberate impressions of entire fingerprints can be obtained by ink or other substances transferred from the peaks of friction ridges on the skin to a smooth surface such as paper. Fingerprint records normally contain impressions from the pad on the last joint of fingers and thumbs, though fingerprint cards also typically record portions of lower joint areas of the fingers.

Human fingerprints are detailed, unique, difficult to alter, and durable over the life of an individual, making them suitable as long-term markers of human...

Device fingerprint

browser fingerprint which depends on information collected specifically by interaction with the web browser of the device. Device fingerprints can be used

A device fingerprint or machine fingerprint is information collected about the software and hardware of a remote computing device for the purpose of identification. The information is usually assimilated into a brief identifier using a fingerprinting algorithm. One of the most common types of such is a browser fingerprint which depends on information collected specifically by interaction with the web browser of the device.

Device fingerprints can be used to fully or partially identify individual devices even when persistent cookies (and zombie cookies) cannot be read or stored in the browser, the client IP address is hidden, or one switches to another browser on the same device.

This may allow a service provider to detect and prevent identity theft and credit card fraud, but also to compile...

Automated fingerprint identification

fingerprint identification is the process of using a computer to match fingerprints against a database of known and unknown prints in the fingerprint

Automated fingerprint identification is the process of using a computer to match fingerprints against a database of known and unknown prints in the fingerprint identification system. Automated fingerprint identification systems (AFIS) are primarily used by law enforcement agencies for criminal identification purposes, the most important of which is the identification of a person suspected of committing a crime or linking a suspect to other unsolved crimes.

Automated fingerprint verification is a closely related technique used in applications such as attendance and access control systems. On a technical level, verification systems verify a claimed identity (a user might claim to be John by presenting his PIN or ID card and verify his identity using his fingerprint), whereas identification systems...

Forensic firearm examination

weapon serial numbers and potentially fingerprints left on the weapon's surface. Fingerprint recovery from the surface of firearms is done with cyanoacrylate

Forensic firearm examination is the forensic process of examining the characteristics of firearms or bullets left behind at a crime scene. Specialists in this field try to link bullets to weapons and weapons to individuals. They can raise and record obliterated serial numbers in an attempt to find the registered owner of a weapon and look for fingerprints on a weapon and cartridges.

By examining unique striations impressed into a bullet from the barrel of a gun, expended ammunition can be linked back to a specific weapon. These striations are due to the rifling inside the barrels of firearms. Rifling spins the bullet when it is fired out of the barrel to improve precision. Although bullet striations are individualized unique evidence, microscopic striations in the barrel of the weapon are subject...

Biometrics in schools

use biometric data such as fingerprints and facial recognition to identify students. This may be for daily transactions in the library or canteen or for

Some schools use biometric data such as fingerprints and facial recognition to identify students. This may be for daily transactions in the library or canteen or for monitoring absenteeism and behavior control. In 2002, Privacy International raised concerns that tens of thousands of UK school children were being fingerprinted by schools, often without the knowledge or consent of their parents. The supplier, Micro Librarian Systems, which uses technology similar to that used in prisons and the military, estimated that 350 schools throughout Britain were using such systems. In 2007, it was estimated that 3,500 schools are using such systems. Some schools in Belgium and the US have followed suit. Concerns have been raised by a number of groups, who suggest the harms far outweigh any putative benefits...

DNA profiling

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DNA profiling (also called DNA fingerprinting and genetic fingerprinting) is the process of determining an individual's deoxyribonucleic acid (DNA) characteristics. DNA analysis intended to identify a species, rather than an individual, is called DNA barcoding.

DNA profiling is a forensic technique in criminal investigations, comparing criminal suspects' profiles to DNA evidence so as to assess the likelihood of their involvement in the crime. It is also used in paternity testing, to establish immigration eligibility, and in genealogical and medical research. DNA profiling has also been used in the study of animal and plant populations in the fields of zoology, botany, and agriculture.

MusicBrainz

compress the fingerprint while retaining patterns. The AcoustID search server then searches from the database of fingerprints by similarity and returns the AcoustID

MusicBrainz is a MetaBrainz project that aims to create a collaborative music database that is similar to the freedb project. MusicBrainz was founded in response to the restrictions placed on the Compact Disc Database (CDDb), a database for software applications to look up audio CD information on the Internet. MusicBrainz has expanded its goals beyond serving as a CD metadata repository, evolving into a structured online database for music information, including details about artists, performers, and songwriters.

MusicBrainz captures information about artists, their recorded works, and the relationships between them. Recorded works entries capture the album title, track titles, and the length of each track at a minimum. These

entries are maintained by volunteer editors who follow community...

Murder of Vivianne Ruiz

fingerprints. The practice is commonly used by forensic investigators in the analysis of latent fingerprints on porous surfaces such as paper, as the

The murder of Vivianne Ruiz occurred in Sydney, Australia. Her body was discovered in garbage bags on 28 December 1991 without any identification. A postmortem found strangulation to be the likely cause of death. Animal hairs were found on the body, and newspaper was stuffed inside her mouth.

On its removal, fingerprints in what appeared to be blood were present but could not be immediately identified. Investigators spent many weeks attempting to identify the victim. A sustained and significant media campaign was also conducted. Investigators were eventually contacted by a former associate of the victim who recognised her as Vivianne Ruiz.

Investigators discovered Ruiz had been in a relationship with Richard White, a convicted criminal with a history of assault and drug trafficking. He had...

Smudge attack

there are multiple users, grouping fingerprints can help classify which ones belong to each person. Fingerprints have both ridges and valleys, and differentiating

A smudge attack is an information extraction attack that discerns the password input of a touchscreen device such as a smartphone or tablet computer from fingerprint smudges. A team of researchers at the University of Pennsylvania were the first to investigate this type of attack in 2010. An attack occurs when an unauthorized user is in possession or is nearby the device of interest. The attacker relies on detecting the oily smudges produced and left behind by the user's fingers to find the pattern or code needed to access the device and its contents. Simple cameras, lights, fingerprint powder, and image processing software can be used to capture the fingerprint deposits created when the user unlocks their device. Under proper lighting and camera settings, the finger smudges can be easily detected...

Lalji Singh

while working in the CCMB, Singh established that this Bkm-derived probe could be used to generate individual specific DNA Fingerprints of humans for forensic

Lalji Singh (5 July 1947 – 10 December 2017) was an Indian scientist who worked in the field of DNA fingerprinting technology in India and pioneer of Assisted reproductive technology, where he was popularly known as the "Father of Indian DNA fingerprinting". Singh also worked in the areas of molecular basis of sex determination, wildlife conservation forensics and evolution and migration of humans. In 2004, he received the Padma Shri in recognition of his contribution to Indian science and technology.

Singh founded various institutes and laboratories in India, including the Centre for DNA Fingerprinting and Diagnostics in 1995, Laboratory for the Conservation of Endangered Species (LaCONES) in 1998, and Genome Foundation in 2004, aiming to diagnose and treat genetic disorders affecting the...

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