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istics related to human characteristics For the academic journal, see *Biometrics* (journal). Not to be confused with *Biometry*, the application of statistics to biology. *Biometrics* are body measurements and calculations related to human characteristics. Biometric authentication (or realistic authentication) is used in computer science as a form of identification and access control. It is also used to identify individuals in groups that are under surveillance. Biometric identifiers are the distinctive, measurable characteristics used to label and describe individuals. Biometric identifiers are often categorized as physiological characteristics, which are related to the shape of the body. Examples include, but are not limited to fingerprint,[1] palm veins, face recognition, DNA, palm print, hand geometry, iris recognition, retina and odor/scent. Behavioral characteristics are related to the pattern of behavior of a person, including but not limited to mouse movement,[2] typing rhythm, gait, signature, behavioral profiling, and credentials. Some researchers have coined the term "behavioristics" to describe the latter class of biometrics.[3] More traditional means of access control include token-based identification systems, such as a driver's license or passport, and knowledge-based identification systems, such as a password or personal identification number. Since biometric identifiers are unique to individuals, they are more reliable in verifying identity than token and knowledge-based methods; however, the collection of biometric identifiers raises privacy concerns about the ultimate use of this information. Biometric functionality Many different aspects of human physiology, chemistry, and behavior can be used for biometric authentication. The collection of biometric identifiers is a form of identification. The weight of the fingerprint is a good example of a biometric identifier. John et al. (1999) identified several types of biometric identifiers that can be used for authentication. Uniqueness means the trait should be sufficiently different for individuals in the relevant population from one another. Permanence relates to the manner in which a trait varies over time. More specifically, a trait with good permanence will be reasonably invariant over time with respect to the specific matching algorithm. Measurability (collectability) relates to the ease of acquisition or measurement of the trait. In addition, acquired data should be in a form that permits subsequent processing and extraction of the relevant feature sets. Performance relates to the accuracy, speed, and robustness of technology used (see performance section for more details). Acceptability relates to how well individuals in the relevant population accept the technology such that they are willing to have their biometric trait captured and assessed. Circumvention relates to the ease with which a trait might be imitated using an artifact or substitute. Proper biometric use is very application dependent. Certain biometrics will be better than others based on the required levels of convenience and security.[5] No single biometric will meet all the requirements of every possible application.[4] The block diagram illustrates the two basic modes of a biometric system.[6] First, in verification (or authentication) mode the system performs a one-to-one comparison of a captured biometric with a specific template stored in a biometric database in order to verify the individual is the person they claim to be. Three steps are involved in the verification of a person.[7] In the first step, reference models for all the users are generated and stored in the model database. In the second step, some samples are matched with reference models to generate the time and space invariant template. In the third step, this process may be a manual card, or name or number (e.g., PIN) to indicate which template should be used for comparison.[10] Costly recognition is a comparison of the captured template with the reference models. The results are used to generate the multiple possible matching template in the database.[6] Biometric island examining image 2D and 3D, voice and facial recognition. The distance between the two points is compared against a threshold. If the distance is less than the threshold, the system will identify the individual if the comparison of the biometric sample to a template in the database falls within a previously set threshold. Identification mode can be used either for "positive recognition" (so that the user does not have to provide any information about the template to be used) or for "negative recognition" of the person "where the system establishes whether the person is who she (implicitly or explicitly) denies to be".[6] The latter function can only be achieved through biometrics since other methods of personal recognition such as passwords, PINs or keys are ineffective. The first time an individual uses a biometric system is called enrollment. During enrollment, biometric information from an individual is captured and stored. In subsequent uses, biometric information is detected and compared with the information stored at the time of enrollment. Note that it is crucial that storage and retrieval of such systems themselves be secure if the biometric system is to be robust. The first block (sensor) is the interface between the real world and the system; it has to acquire all the necessary data. Most of the times it is an image acquisition system, but it can change according to the characteristics desired. The second block performs all the necessary pre-processing: it has to remove artifacts from the sensor, to enhance the input (e.g. removing background noise), to use some kind of normalization, etc. In the third block, necessary features are extracted. This step is an important step as the correct features need to be extracted in an optimal way. A vector of numbers or an image with particular properties is used to create a template. A template is a synthesis of the relevant characteristics extracted from the source. Elements of the biometric measurement that are not needed in the comparison algorithm are discarded in the template to reduce the file size and to protect the identity of the enrollees.[8] However, depending on the scope of the biometric system, original biometric image sources may be retained such as the cards used in the Federal Information Processing Standards Institute (FIPS) 196 (FBI) and the FBI's National Automated Fingerprint Identification System (AFIS) systems. The distance between them using any algorithm (e.g. Hamming distance). The matching program will analyze the template with the input. This will then be output for a specified use or purpose (e.g. entrance in a restricted area), though it is a fear that the use of biometric data may face mission creep.[10][11] Selection of biometrics in any practical application depending upon the characteristic measurements and user requirements.[7] In selecting a particular biometric, factors to consider include, performance, social acceptability, ease of circumvention and/or spoofing, robustness, population coverage, size of equipment needed and identity theft deterrence. The selection of a biometric is based on user requirements and considers sensor and device availability, computational time and reliability, cost, sensor size, and power consumption. Multimodal biometric system Multimodal biometric systems use multiple sensors or biometrics to overcome the limitations of unimodal biometric systems.[12] For instance iris recognition systems can be compromised by aging irises[13] and electronic fingerprint recognition can be worn-out or cut fingerprints. While unimodal biometric systems are limited by the integrity of their identifier, it is unlikely that several unimodal systems will suffer from identical limitations. Multimodal biometric systems can obtain sets of information from the same marker (i.e., multiple images of an iris, or scans of the same finger) or information from different biometrics (requiring fingerprint scans and, using voice recognition, a spoken password).[14][15] Multimodal biometric systems can fuse these unimodal systems sequentially, simultaneously, a combination thereof, or in series, which refer to sequential, parallel, hierarchical and hybrid integration modes, respectively. Fusion of biometrics information can occur at different stages of a recognition system. In case of feature level fusion, the features extracted from multiple biometrics are fused. Matching-score level fusion consolidates the scores generated by multiple biometrics to produce a final score. Template level fusion combines the files of the biometric identifiers to produce a single template. The final template is then compared against a template in the database. The distance between the two points is compared against a threshold. If the distance is less than the threshold, the system will identify the individual if the comparison of the biometric sample to a template in the database falls within a previously set threshold. 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