Definitions for NTIA Privacy Multistakeholder Facial Recognition

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Algorithm [Submitted By John Dowden]

A limited sequence of instructions or steps that directs a computer system how to solve a particular problem or perform a function.

Example of Algorithm: A facial recognition system will have multiple algorithms for: image processing, template generation, matching, etc.

Authentication [Edited by Walter Hamilton and John Dowden]

A task where the Facial Recognition System ~~performs a~~ attempts to confirm an individual's claimed identity by comparing the template generated from a submitted face image with a specific known template generated from a previously enrolled face image. This process is also called one-to-one verification.~~one-to-one comparison of a stored or previously-available photograph against the facial vector of a Subject.~~

~~Dispose~~Delete [Name Change From Susan Grant]

To make unusable or place content in a position to become unusable.[1]

Encryption [Submitted by Walter Hamilton and Bill Long]

The act of transforming data into an unintelligible form so that it cannot be read by without the use of a key or a password.

Enroll

The process of storing and maintaining ~~a Facial Vector~~~~Template~~Facial Recognition Data.

Existing Privacy Laws:

Any state or federal law governing the collection or use of ~~Personally Identifiable Information~~Facial Recognition Data collected from a Subject. This includes, but is not limited to Gramm-Leach-Bliley Act, Health Insurance Portability and Accountability Act, Children's Online Privacy Protection, California Online Privacy Protection Act, and Electronic Communications Privacy Act.

Facial Detection

A task where the Facial Recognition System distinguishes the presence of a face without creating or deriving a Facial ~~Vector~~Template.

Facial Detection Software

Software used to detect the presence of a human face.

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[1] The "position to become unusable" is added to address a scenario where a file is "deleted" but has not yet been overwritten.

Example of Facial Detection: A store uses *facial detection* to more accurately count the number of people entering the store.

Facial Identification

A task where the Facial Recognition System searches a database for a reference matching a submitted Facial ~~Vector~~ Template and returns a corresponding identity.[2]

Example of Facial Identification: A casino uses *facial identification* to ascertain the identity of a Subject who has entered the premises based on a photo database of known card counters.

Facial Recognition Data:

Data derived from the application of Facial Recognition Software, including Facial ~~Vectors~~ Template and associated metadata.

Facial Recognition Software:

Software used to compare the visible physical structure of an individual's face with a stored Facial ~~Vector~~Template.[3]

Facial Recognition System: [Edit by Walter Hamilton]

A ~~device~~ system that uses Facial Recognition Software.

Facial ~~Vector~~Template: [Submitted by Walter Hamilton and John Dowden]

A digital representation of distinct characteristics of a Subject's face, representing information extracted from a photograph using a facial recognition algorithm or Facial ~~Vector~~Template.[4]

Gallery [Submitted by John Dowden]

The facial recognition system's database or set of known subjects. May include biometric image and template data as well as biographic, demographic and other data.

Operation of Facial Detection Software

Facial Detection Software is considered "in operation" when the process of Facial Detection is occurring.

Secure Storage of Information

Using commercially reasonable measures and security protections to secure information.

Share Information

The disclosure of information to someone other than the User or Subject.

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[2] Based on NSTC definition of Identification
[3] Based on NSTC definition of Biometric System.
[4] Based on NSTC definition of Template.

Subject: [Submitted by Steve DelBianco]

The individual ~~interacting~~ represented ~~with~~ in a Facial Recognition System and/or a facial recognition database.[5]

Example of Subject: When gaining access to the apartment building, John became the *subject* of the building's Facial Recognition System.

Threshold [Submitted by John Dowden]

A user setting for ~~biometric systems~~Facial Recognition Systems ~~operating~~ for authentication, verification or identification. The acceptance or rejection of ~~facial recognition data~~ a Facial Template match is dependent on the match score falling above or below the threshold. The threshold is adjustable within the ~~system~~Facial Recognition System.

User

An entity that uses Facial Recognition Systems to Collect and Use Facial Recognition Data about Subjects.

Example of User: ~~Company A~~The bank is the *user* of a Facial Recognition System for its ATMs.

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[5] Based on the NSTC definition of User, however, separated out to clarify the subject and the user are different.