

CLAIMS

[Claim 1]

An image information verification apparatus comprising:
an extraction unit that reads an image and extracts an identifier image, a face image and an attribute information image regarding the face image from the image;
an identifier image verification unit that verifies the identifier image based on an electronic signature included in the identifier image; and
an image verification unit that compares attribute information included in the verified identifier image with the extracted attribute information image, compares first feature value information extracted from the face image with second feature value information included in the verified identifier image when the attribute information image and the attribute information match each other, and verifies authenticity of the image, wherein the identifier image is generated by using the electronic signature, the second feature value information and the attribute information.

[Claim 2]

The image information verification apparatus according to claim 1,
wherein the first feature value information and the second feature value information are information regarding a feature point position in a face.

[Claim 3]

The image information verification apparatus according to claim 2,
further comprising a display unit that displays a result of the verification.

[Claim 4]

An authentication system comprising the image information verification apparatus stated in claim 3 and an image capturing apparatus,
wherein the image information verification apparatus further includes an authentication unit that compares an image captured by the image capturing apparatus with the face image and authenticates an object whose image has been captured by the image capturing apparatus.

[Claim 5]

The authentication system according to claim 4,
wherein the authentication unit compares the captured image with the face image by using the feature values.

[Claim 6]

The authentication system according to claim 5, further comprising a gate that executes processing according to a result of the authentication of the object.

[Claim 7]

The authentication system according to claim 6, wherein the identifier image is created by encrypting the second feature value information with a public key.

[Claim 8]

An image information verification method comprising:
an image reading step of reading an image;
an extraction step of extracting an identifier image, a face image and an attribute information image regarding the face image from the image;
an identifier image verification step of verifying the identifier image based on an electronic signature included in the identifier image; and
an image verification step of comparing attribute information included in the verified identifier image with the extracted attribute information image, comparing first feature value information extracted from the face image with second feature value information included in the verified identifier image when the attribute information image and the attribute information match each other, and verifying authenticity of the image, wherein the identifier image is generated by using the electronic signature, the second feature value information and the attribute information.

[Claim 9]

An authentication method comprising:
an image reading step of reading an image;
an extraction step of extracting an identifier image, a face image and an attribute information image regarding the face image from the image;
an identifier image verification step of verifying the identifier image based on an electronic signature included in the identifier image;
an image verification step of comparing attribute information included in the verified identifier image with the extracted attribute information image, comparing first feature value information extracted from the face image with second feature value information

included in the verified identifier image when the attribute information image and the attribute information match each other, and verifying authenticity of the image; and an authentication step of comparing an image captured by an image capturing apparatus with the face image and authenticating an object whose image has been captured by the image capturing apparatus, wherein the identifier image is generated by using the electronic signature, the second feature value information and the attribute information.