SUMMARY

[0006]

However, with the method described above, if makeup not belonging to any of the plurality of makeups prepared in advance comes into fashion, a makeup trend cannot be correctly analyzed. Accordingly, a technology that allows a makeup trend to be easily and more accurately determined based on analysis of a makeup facial image is desired.

[0007]

Accordingly, an aspect of the present disclosure provides a makeup trend analyzing apparatus, a makeup trend analyzing method, and a makeup trend analyzing program that allow a makeup trend to be easily and more accurately determined based on analysis of a makeup facial image.

[0008]

A makeup trend analyzing apparatus of the present disclosure includes a facial feature point acquiring unit that acquires a facial feature point within a makeup facial image that is an image of a face on which makeup is applied, a makeup feature point acquiring unit that acquires a makeup feature point within the makeup facial image, a makeup information generator that acquires, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference, a trend analyzer that analyzes the makeup information acquired from a plurality of the makeup facial images, and determines a makeup trend, and an analysis result output unit that performs an information output process according to a determination result of the makeup trend.

[0008a]

According to an embodiment of the present disclosure, it is provided a makeup trend analyzing method comprising:

acquiring a facial feature point within a makeup facial image that is an image of a face on which makeup is applied;

acquiring a makeup feature point within the makeup facial image;

acquiring, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

analyzing the makeup information acquired from a plurality of the makeup facial images, and determining a makeup trend; and

performing an information output process according to a determination result of the makeup trend.

[0008b]

According to an embodiment of the present disclosure, it is provided a makeup trend analyzing program for causing a computer to execute:

acquiring a facial feature point within a makeup facial image that is an image of a face on which makeup is applied;

acquiring a makeup feature point within the makeup facial image;

generating, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

analyzing the makeup information acquired from a plurality of the makeup facial images, and determining a makeup trend; and

performing an information output process according to a determination result of the makeup trend.

[0008c]

According to an aspect of the present disclosure, there is provided a makeup trend analyzing apparatus comprising:

an information acquiring unit that collects, from a plurality of terminals through a network, a plurality of makeup facial images, each of the plurality of makeup facial images being an image of a face on which a makeup is applied; a facial feature point acquiring unit that acquires a facial feature point within each of the plurality of a makeup facial images;

a makeup feature point acquiring unit that acquires a makeup feature point within each of the plurality of makeup facial images;

a makeup information generator that generates, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

a trend analyzer that analyzes the makeup information acquired from the plurality of the makeup facial images, and determines a makeup trend;

and an analysis result output unit that performs an information output process according to the determined makeup trend.

[0008d]

According to an aspect of the present disclosure, there is provided a makeup trend analyzing method comprising:

collecting, from a plurality of terminals through a network, a plurality of makeup facial images, each of the plurality of makeup facial images being an image of a face on which makeup is applied;

acquiring a facial feature point within a each of the plurality of makeup facial image that is an image of a face on which makeup is applied;

acquiring a makeup feature point within the makeup facial image;

acquiring, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

analyzing the makeup information acquired from the plurality of the makeup facial images, and determining a makeup trend; and

performing an information output process according to a the determined makeup trend.

[0008e]

According to an aspect of the present disclosure, there is provided a makeup trend analyzing program for causing a computer to execute:

collecting, from a plurality of terminals through a network, a plurality of makeup facial images, each of the plurality of makeup facial images being an image of a face on which makeup is applied;

acquiring a facial feature point within each of the plurality of makeup facial images; acquiring a makeup feature point within each of the plurality of makeup facial images;

generating, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

analyzing the makeup information acquired from the plurality of the makeup facial images, and determining a makeup trend; and

performing an information output process according to a the determined makeup trend.

[0009]

Additionally, these general and specific aspects may be implemented by a system, a method, an integrated circuit, a computer program, or a recording medium, or by an arbitrary combination of a system, an apparatus, a method, an integrated circuit, a computer program, and a recording medium.

[0010]

According to the present disclosure, a makeup trend may be easily and more accurately determined based on analysis of a makeup facial image.

BRIEF DESCRIPTION OF DRAWINGS

[0011]

CLAIMS

1. A makeup trend analyzing apparatus comprising:

an information acquiring unit that collects, from a plurality of terminals through a network, a plurality of makeup facial images, each of the plurality of makeup facial images being an image of a face on which a makeup is applied;

a facial feature point acquiring unit that acquires a facial feature point within each of the plurality of a makeup facial images;

a makeup feature point acquiring unit that acquires a makeup feature point within each of the plurality of makeup facial images;

a makeup information generator that generates, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

a trend analyzer that analyzes the makeup information acquired from the plurality of the makeup facial images, and determines a makeup trend; and

an analysis result output unit that performs an information output process according to the determined makeup trend.

2. The makeup trend analyzing apparatus according to claim 1, wherein

the makeup information includes a vector, in the face coordinate system, that starts from a predetermined one of the facial feature point and the makeup feature point and ends at the and other one of said facial feature point and said makeup feature point, and

the makeup trend is determined on analysis of a tendency of said vector in the plurality of makeup facial images, wherein said vector quantitatively indicates a distance and a direction from said predetermined one of the facial feature point and the makeup feature point to the other one of said facial feature point and said makeup feature point.

3. The makeup trend analyzing apparatus according to claim 1, wherein

the facial feature point acquiring unit extracts the facial feature point from each of the plurality of makeup facial images, and

the makeup feature point acquiring unit extracts the makeup feature point from each of the plurality of makeup facial images.

4. The makeup trend analyzing apparatus according to claim 1, wherein the information acquiring unit acquires the makeup facial image and attribute information indicating an attribute of each of the plurality makeup facial images, and

the trend analyzer determines the makeup trend for each attribute indicated by

the attribute information.

5. The makeup trend analyzing apparatus according to claim 1, wherein

the makeup information includes time information indicating a time of application of the makeup in each of the plurality of makeup facial images,

the makeup trend includes information about makeup that is estimated to come into fashion, and

the information output process includes a process of presenting the makeup that is estimated to come into fashion.

6. The makeup trend analyzing apparatus according to claim 5, wherein

the information output process includes a process of transmitting makeup trend information indicating the makeup that is estimated to come into fashion, to a terminal included/not included in the plurality of terminals.

7. The makeup trend analyzing apparatus according to claim 1, wherein the makeup information generator holds in advance or acquires analysis target calculation information defining an analysis target for which the makeup trend is to be analyzed, and generates the makeup information based on the analysis target calculation information that is held or acquired.

8. A makeup trend analyzing method comprising:

collecting, from a plurality of terminals through a network, a plurality of makeup facial images, each of the plurality of makeup facial images being an image of a face on which makeup is applied;

acquiring a facial feature point within a each of the plurality of makeup facial image that is an image of a face on which makeup is applied;

acquiring a makeup feature point within the makeup facial image;

acquiring, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

analyzing the makeup information acquired from the plurality of the makeup facial images, and determining a makeup trend; and

performing an information output process according to a the determined makeup trend.

9. A makeup trend analyzing program for causing a computer to execute:

collecting, from a plurality of terminals through a network, a plurality of makeup facial images, each of the plurality of makeup facial images being an image of a face on which makeup is applied;

acquiring a facial feature point within each of the plurality of makeup facial images;

acquiring a makeup feature point within each of the plurality of makeup facial images;

generating, based on the facial feature point and the makeup feature point, makeup information quantitatively indicating information about a position of the makeup feature point in a face coordinate system that takes the facial feature point as a reference;

analyzing the makeup information acquired from the plurality of the makeup facial images, and determining a makeup trend; and

performing an information output process according to a the determined makeup trend.