[0003]

[Patent Document 1]

Japanese Unexamined Patent Application, First Publication No. 2016-048444

[Patent Document 2]

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SUMMARY OF THE INVENTION

Problems to be solved by the Invention

[0004]

In the reading of forms, it is preferable to be able to support checking and correction of reading results. For example, when there are a plurality of people who check and correct reading results, it is preferable to allocate the reading results so that the reading results can be efficiently checked and corrected.

[0005]

Embodiments of the present invention seek to provide an image-processing device, an image-processing method, and a program capable of solving the above-described problems.

Means for Solving the Problems

[0006]

According to a first aspect of the present invention, an image-processing device includes: a reliability calculation means for calculating reliability of a result of a character recognition process for each of one or more character strings of a specific item acquired by the character recognition process for a document image which is a target of the character recognition process, on the basis of a feature value relating to a format,

which indicates attributes of characters or coordinates of a range of a character string in the document image, of the specific item, which is specified in advance among a plurality of items indicating kinds of information included in the document image, and calculating reliability of the result of the character recognition process for the document image on the basis of the reliability of each of the one or more character strings; and an output destination selection means for comparing the reliability of the document image with a threshold value, and selecting an output destination of

a result of the character recognition process for the document image in accordance with a comparison result of the reliability of the document image and the threshold value.

[0007]

According to a second aspect of the present invention, an image-processing method includes: calculating reliability of a result of a character recognition process for each of one or more character strings of a specific item acquired by the character recognition process for a document image which is a target of the character recognition process, on the basis of a feature value relating to a format, which indicates attributes of characters or coordinates of a range of a character string in the document image, of the specific item, which is specified in advance among a plurality of items indicating kinds of information included in the document image, and calculating reliability of the result of the character recognition process for the document image on the basis of the reliability of each of the one or more character strings; comparing the reliability of the document image with a threshold value; and selecting an output destination of a result of the character recognition process for the document image in accordance with a comparison result between the reliability of the document image and the threshold value.

[0008]

According to a third aspect of the present invention, a non-transitory computer-readable storage medium stores a program causing a computer to perform processes of: calculating reliability of a result of a character recognition process for each of one or more character strings of a specific item acquired by the character recognition process for a document image which is a target of the character recognition process, on the basis of a feature value relating to a format, which indicates attributes of characters or coordinates of a range of a character string in the document image, of the specific item, which is specified in advance among a plurality of items indicating kinds of information included

in the document image, and calculating reliability of the result of the character recognition process for the document image on the basis of the reliability of each of the one or more character strings; comparing the reliability of the document image with a threshold value; and selecting an output destination of a result of the character recognition process for the document image in accordance with a comparison result between the reliability of the document image and the threshold value.

Advantageous Effects of Invention

[0009]

According to embodiments of the present invention, when there are a plurality of people who check and correct reading results of forms, it is possible to allocate the reading results so that the reading results can be efficiently checked and corrected.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010]

Fig. 1 is a diagram illustrating an example of a device configuration of an image-processing system including an image-processing device according to an

CLAIMS

1. An image-processing device, comprising:

a reliability calculation means for calculating reliability of a result of a character recognition process for each of one or more character strings of a specific item acquired by the character recognition process for a document image which is a target of the character recognition process, on the basis of a feature value relating to a format, which indicates attributes of characters or coordinates of a range of a character string in the document image, of the specific item, which is specified in advance among a plurality of items indicating kinds of information included in the document image, and calculating reliability of the result of the character recognition process for the document image on the basis of the reliability of each of the one or more character strings; and

an output destination selection means for comparing the reliability of the document image with a threshold value, and selecting an output destination of a result of the character recognition process for the document image in accordance with a comparison result between the reliability of the document image and the threshold value.

2. The image-processing device according to Claim 1, wherein the reliability calculation means calculates the reliability of each of the one or more character strings of the specific item acquired by the character recognition process, on the basis of feature values, which are recorded in advance based on learning results obtained using a plurality of document images, of character strings of the specific item for each specific item of the plurality of document images.

3. The image-processing device according to Claim 2, wherein the reliability

calculation means calculates the reliability of each of the one or more character strings, on the basis of degree of variation of the feature value in the feature values recorded in advance based on the learning results obtained using the plurality of document images.

4. The image-processing device according to Claim 2 or 3, wherein the reliability calculation means calculates the reliability of each of the one or more character strings, on the basis of degree of deviation of the feature value in the document image which is the target of the character recognition process with respect to the feature values recorded in advance based on the learning results obtained using the plurality of document images.

5. An image-processing method, comprising:

calculating reliability of a result of a character recognition process for each of one or more character strings of a specific item acquired by the character recognition process for a document image which is a target of the character recognition process, on the basis of a feature value relating to a format, which indicates attributes of characters or coordinates of a range of a character string in the document image, of the specific item, which is specified in advance among a plurality of items indicating kinds of information included in the document image, and calculating reliability of the result of the character recognition process for the document image on the basis of the reliability of each of the one or more character strings;

comparing the reliability of the document image with a threshold value; and

selecting an output destination of a result of the character recognition process for the document image in accordance with a comparison result between the reliability of the document image and the threshold value.

6. A non-transitory computer-readable storage medium that stores a program causing a computer to perform processes of:

calculating reliability of a result of a character recognition process for each of one or more character strings of a specific item acquired by the character recognition process for a document image which is a target of the character recognition process, on the basis of a feature value relating to a format, which indicates attributes of characters or coordinates of a range of a character string in the document image, of the specific item, which is specified in advance among a plurality of items indicating kinds of information included in the document image, and calculating reliability of the result of the character recognition process for the document image on the basis of the reliability of each of the one or more character strings;

comparing the reliability of the document image with a threshold value; and

selecting an output destination of a result of the character recognition process for the document image in accordance with a comparison result between the reliability of the document image and the threshold value.