Problem to be solved by the Invention

[0004]

Not only in a case in which data such as calculation logs acquired in advance and data acquired through an OCR process match each other, but also in the other cases, it is preferable to reduce an operator's burden regarding checking results of the OCR process.

[0005]

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

Means for Solving the Problem

[0006]

According to a first aspect of the present invention, an image processing device is provided including: a first feature quantity selecting means for selecting a first feature quantity of a document image that is a character recognition target among first feature quantities that have been recorded in advance on the basis of a result of a character recognition process for a plurality of document images and represent features of character strings of an item for each type of the document images and for each specific item; a character recognition processing means for performing a character recognition process for the document image that is the character recognition target; a character string selecting means for selecting a character string of a specific item corresponding to the first feature quantity among the character strings acquired as a result of the character recognition process; and a determination result acquiring means for acquiring a determination result indicating whether or not a character string that has been

input in advance matches the character string of the specific item in a case in which the character string selecting means has not selected any one of the character strings acquired as a result of the character recognition process as the character string of the specific item.

[0007]

According to a second aspect of the present invention, an image processing method is provided including: selecting a first feature quantity of a document image that is a character recognition target among first feature quantities that are recoded in advance on the basis of a result of a character recognition process for a plurality of document images and represent features of character strings of an item for each type of the document images and for each specific item; performing a character recognition process for the document image that is the character recognition target; selecting a character string of a specific item corresponding to the first feature quantity among the character strings acquired as a result of the character recognition process; and acquiring a determination result indicating whether or not a character string that has been input in advance matches the character string of the specific item in a case in which any one of the character strings acquired as a result of the character recognition process has not been selected as the character string of the specific item.

[0008]

According to a third aspect of the present invention, a program stored on a storage medium causing a computer to execute processes is provided including: selecting a first feature quantity of a document image that is a character recognition target among first feature quantities that are recoded in advance on the basis of a result of a character recognition process for a plurality of document images and represent features of character strings of an item for each type of the document images and for each specific item; performing a character recognition process for the document image that is the

CLAIMS

1. An image processing device comprising:

a first feature quantity selecting means for selecting a first feature quantity of a document image that is a character recognition target among first feature quantities that are recoded in advance on the basis of a result of a character recognition process for a plurality of document images and represent features of character strings of an item for each type of the document images and for each specific item;

a character recognition processing means for performing a character recognition process for the document image that is the character recognition target;

a character string selecting means for selecting a character string of a specific item corresponding to the first feature quantity among the character strings acquired as a result of the character recognition process; and

a determination result acquiring means for acquiring a determination result indicating whether or not a character string that has been input in advance matches the character string of the specific item in a case in which the character string selecting means has not selected any one of the character strings acquired as a result of the character recognition process as the character string of the specific item.

2. The image processing device according to claim 1,

wherein the first feature quantity selecting means selects the first feature quantity representing a position of the character string of the specific item in the document image, and

wherein the determination result acquiring means presents the document image representing the position of the character string of the specific item and the character

string that has been input in advance to a user and acquires the determination result indicating whether or not the character string of the specific item appearing in the document image matches the character string that has been input in advance.

3. The image processing device according to claim 1 or 2, further comprising a machine learning means for performing, using the character string that has been input in advance, machine learning for acquiring information used for selecting the character string of the specific item among the character strings acquired as the result of the character recognition process in a case in which the character string selecting means has not selected any one of the character strings acquired as the result of the character recognition process as the character string of the specific item, and the determination result indicates that the character string that has been input in advance matches the character string of the specific item.

4. The image processing device according to claim 3, wherein the machine learning means performs the machine learning in any one of a case in which the character string selecting means has selected any one of the character strings acquired as the result of the character recognition process as the character string of the specific item and a case in which the character string selecting means has not selected any one of the character strings acquired as the result of the character recognition process as the character string of the specific item.

5. The image processing device according to claim 3, wherein the machine learning means performs the machine learning in a case in which the character string selecting means has not selected any one of the character strings acquired as the result of

the character recognition process as the character string of the specific item and suppresses execution of the machine learning in a case in which the character string selecting means has selected any one of the character strings acquired as the result of the character recognition process as the character string of the specific item.

6. An image processing method comprising:

selecting a first feature quantity of a document image that is a character recognition target among first feature quantities that are recoded in advance on the basis of a result of a character recognition process for a plurality of document images and represent features of character strings of an item for each type of the document images and for each specific item;

performing a character recognition process for the document image that is the character recognition target;

selecting a character string of a specific item corresponding to the first feature quantity among the character strings acquired as a result of the character recognition process; and

acquiring a determination result indicating whether or not a character string that has been input in advance matches the character string of the specific item in a case in which any one of the character strings acquired as a result of the character recognition process has not been selected as the character string of the specific item.

7. A storage medium storing a program causing a computer to execute processes comprising:

selecting a first feature quantity of a document image that is a character recognition target among first feature quantities that are recoded in advance on the basis

of a result of a character recognition process for a plurality of document images and represent features of character strings of an item for each type of the document images and for each specific item;

performing a character recognition process for the document image that is the character recognition target;

selecting a character string of a specific item corresponding to the first feature quantity among the character strings acquired as a result of the character recognition process; and

acquiring a determination result indicating whether or not a character string that has been input in advance matches the character string of the specific item in a case in which any one of the character strings acquired as a result of the character recognition process has not been selected as the character string of the specific item.