

CLAIMS

[Claim 1] A system comprising:

an estimator configured to estimate a height of a worker in a first warehouse work based on an image of a set marker photographed with an imaging device and an elevation/depression angle of the imaging device in the photographing of the marker;

an obtainer configured to obtain information on a position in a height direction of an article as position information used in a second warehouse work performed after the first warehouse work, based on the height of the worker in the first warehouse work, and the height is estimated by the estimator; and

a register configured to register the position information obtained by the obtainer and identification information of the article in a storage unit, the position information being associated with the identification information of the article.

[Claim 2] The system according to claim 1, wherein

the obtainer is configured to obtain information on a position in a horizontal direction of the article as the position information based on information output from a sensor of an information processing device carried by a worker in the first warehouse work.

[Claim 3] The system according to claim 1 or 2,
wherein

the register is configured to register the position information obtained by the obtainer, the identification information of the article, and information on a time when the position information was obtained by the obtainer in the storage unit, and the position information is associated with the identification information of the article and the information on the time.

[Claim 4] The system according to any one of claims 1 to 3, further comprising

a presenter configured to present the position information to a worker in the second warehouse work, the position information is associated with the identification information of the article and registered in the storage unit by the register.

[Claim 5] The system according to claim 4, wherein

the presenter is configured to display a screen on a display unit to present the position information to the worker in the second warehouse work, the screen indicates the position information, and the position information is associated with the identification information of the article and registered in the storage unit by the register.

[Claim 6] The system according to claim 4 or 5,

wherein

the presenter is configured to display a screen on a display unit to present the position information to the worker in the second warehouse work, the screen indicates a relative position of a position indicated by the position information with respect to a position currently looked by the worker in the second warehouse work, and the position indicated by the position information is associated with the identification information of the article and registered in the storage unit by the register.

[Claim 7] The system according to any one of claims 4 to 6, wherein

the presenter is configured to present the position information and time information to the worker in the second warehouse work, the position information is associated with the identification information of the article and registered in the storage unit by the register, and the time information is associated with the identification information of the article and registered in the storage unit.

[Claim 8] The system according to any one of claims 4 to 7, wherein

the presenter is configured not to present the position information registered in the storage unit by the register to the worker in the second warehouse

work when a time indicated in time information is earlier than a current time by a set threshold or more, and the time information is associated with the article and registered in the storage unit by the register.

[Claim 9] An information processing device comprising:

an estimator configured to estimate a height of a worker in a first warehouse work based on an image of a set marker photographed with an imaging device and an elevation/depression angle of the imaging device in the photographing of the marker;

an obtainer configured to obtain information on a position in a height direction of an article as position information used in a second warehouse work performed after the first warehouse work, based on the height of the worker in the first warehouse work, and the height is estimated by the estimator; and

a register configured to register the position information obtained by the obtainer and identification information of the article in a storage unit, the position information being associated with the identification information of the article.

[Claim 10] The information processing device according to claim 9 is smart glasses.

[Claim 11] An information processing method executed by a system, the information processing method comprising:

an estimating step of estimating a height of a worker in a first warehouse work based on an image of a set marker photographed with an imaging device and an elevation/depression angle of the imaging device in the photographing of the marker;

an obtaining step of obtaining information on a position in a height direction of an article as position information used in a second warehouse work performed after the first warehouse work, based on the height of the worker in the first warehouse work, and the height is estimated in the estimating step; and

a registering step of registering the position information obtained in the obtaining step and identification information of the article in a storage unit, the position information being associated with the identification information of the article.

[Claim 12] An information processing method executed by an information processing device, the information processing method comprising:

an estimating step of estimating a height of a worker in a first warehouse work based on an image of a set marker photographed with an imaging device and an elevation/depression angle of the imaging device

in the photographing of the marker;

an obtaining step of obtaining information on a position in a height direction of an article as position information used in a second warehouse work performed after the first warehouse work, based on the height of the worker in the first warehouse work, and the height is estimated in the estimating step; and

a registering step of registering the position information obtained in the obtaining step and identification information of the article in a storage unit, the position information being associated with the identification information of the article.

[Claim 13] A program for causing a computer to execute:

an estimating step of estimating a height of a worker in a first warehouse work based on an image of a set marker photographed with an imaging device and an elevation/depression angle of the imaging device in the photographing of the marker;

an obtaining step of obtaining information on a position in a height direction of an article as position information used in a second warehouse work performed after the first warehouse work, based on the height of the worker in the first warehouse work, and the height is estimated in the estimating step; and

a registering step of registering the position information obtained in the obtaining step and identification information of the article in a storage unit, the position information being associated with the identification information of the article.

[Claim 14] A computer readable recording medium that records a program to cause a computer to execute:

an estimating step of estimating a height of a worker in a first warehouse work based on an image of a set marker photographed with an imaging device and an elevation/depression angle of the imaging device in the photographing of the marker;

an obtaining step of obtaining information on a position in a height direction of an article as position information used in a second warehouse work performed after the first warehouse work, based on the height of the worker in the first warehouse work, and the height is estimated in the estimating step; and

a registering step of registering the position information obtained in the obtaining step and identification information of the article in a storage unit, the position information being associated with the identification information of the article.