

CLAIMS

1. A method operable by an electronic apparatus for managing logistics, the method comprising:

identifying, by a processor of the electronic apparatus, at least one tote included in a tote set;

identifying, by the processor, a station set corresponding to the tote set among at least one station set based on an attribute of an item included in the at least one tote;

determining, by the processor, one of the at least one station included in the station set to be a destination of the at least one tote; and

controlling a conveyor to cause the conveyor to transport the at least one tote to the one of the at least one station,

wherein the at least one station set comprises a first station set including a station associated with an item packing task and a second station set including a station associated with an item sorting task,

wherein when, based on the attribute of the item, the item is an item set to be packed immediately after a picking task is performed, the first station set including the station associated with the item packing task is identified to correspond to the tote set, and

wherein when, based on the attribute of the item, the item is an item set to be classified after the picking task and then packed such that items included in other totes are packed along with the item, the second station set including the station associated with the item sorting task is identified to correspond to the tote set.

2. The method of claim 1, wherein when the station set includes a plurality of stations, the determining of the destination of the at least one tote comprises:

determining one of the plurality of stations to be a destination of the at least one tote using a predetermined scheduling scheme.

3. The method of claim 2, wherein the at least one station corresponds to a place for performing a packing task of an item included in the tote.

4. The method of claim 1, further comprising:

displaying information regarding the tote set and information regarding a station set

corresponding to the tote set.

5. The method of claim 4, wherein the information regarding the tote set includes at least one of information regarding a transfer location of at least one tote included in the tote set, task status information of at least one tote included in the tote set, or shipping request time information of the tote set.

6. The method of claim 5, wherein the task status information includes identification information of at least one pickup-completed tote, and a tote for which packing is completed among the at least one pickup-completed tote is displayed differently compared to a tote for which packing is not completed.

7. The method of claim 1, further comprising:
displaying task information associated with the tote set.

8. The method of claim 7, wherein the displaying of the task information comprises:
excluding information regarding the tote set from displayed information in response to tasks of all totes included in the tote set being completed.

9. The method of claim 7, wherein the task information associated with the tote set comprises tote set identification information corresponding to the tote set and tote identification information corresponding to a tote included in the tote set, and

wherein the method further comprises, based on a user input of selecting the tote set identification information or the tote identification information, displaying detailed information regarding the selected information.

10. The method of claim 9, wherein the detailed information includes information associated with an order of an item included in the tote.

11. An electronic apparatus comprising:
a communication module;
a display, and
a processor, wherein the processor is configured to:

identify at least one tote included in a tote set;

identify a station set corresponding to the at least one tote among at least one station set based on an attribute of an item included in the at least one tote;

determine one of the at least one station included in the station set to be a destination of the at least one tote; and

control a conveyor to cause the conveyor to transport the at least one tote to the one of the at least one station,

wherein the at least one station set comprises a first station set including a station associated with an item packing task and a second station set including a station associated with an item sorting task,

wherein when, based on the attribute of the item, the item is an item set to be packed immediately after a picking task is performed, the first station set including the station associated with the item packing task is identified to correspond to the tote set, and

wherein when, based on the attribute of the item, the item is an item set to be classified after the picking task and then packed such that items included in other totes are packed along with the item, the second station set including the station associated with the item sorting task is identified to correspond to the tote set.

12. The apparatus of claim 11, wherein when the station set includes a plurality of stations, the processor is configured to determine one of the plurality of stations to be a destination of the tote using a predetermined scheduling scheme.

13. The apparatus of claim 11, wherein the processor is configured to display information regarding the at least one tote set and information regarding a station set to which the at least one tote set is allocated using the display.

14. The apparatus of claim 13, wherein the processor is configured to display at least one of information regarding a location of a tote included in the tote set, task status information of a tote included in the tote set, or shipping request time information of the tote set using the display as information regarding the tote set.

15. The electronic apparatus of claim 14, wherein the task status information of the tote includes identification information of pickup-completed totes, and

the processor is configured to display a tote on which packing is completed among the pickup-completed totes differently compared to the tote before the packing is completed.

16. A method for managing logistics comprising:
 - identifying at least one tote included in a tote set; and
 - determining a destination of the at least one tote based on an attribute of an item included in the at least one tote,
 - wherein the determining of the destination of the at least one tote comprises:
 - identifying a station set corresponding to the tote set from at least one station set;
 - determining one of at least one station included in the identified station set to be a destination of the at least one tote using a Round-Robin scheme; and
 - control a conveyor to cause the conveyor to transport the at least one tote to the one of the at least one station,
 - wherein the at least one station set comprises a first station set including a station associated with an item packing task and a second station set including a station associated with an item sorting task,
 - wherein when, based on the attribute of the item, the item is an item set to be packed immediately after a picking task is performed, the first station set including the station associated with the item packing task is identified to correspond to the tote set, and
 - wherein when, based on the attribute of the item, the item is an item set to be classified after the picking task and then packed such that items included in other totes are packed along with the item, the second station set including the station associated with the item sorting task is identified to correspond to the tote set.

17. The method of claim 16, further comprising:
 - displaying information regarding the tote set and information regarding the at least one tote,
 - wherein information regarding the at least one tote comprises information regarding whether the at least one tote is moved to the determined destination.

18. The method of claim 17, wherein the information on the at least one tote includes at least one of information regarding whether a picking task of the at least one tote is completed or information regarding whether a packing task of the at least one tote is completed.

19. The method of claim 16, wherein the at least one station included in the station set corresponds to a place for performing a packing task of an item included in the tote.