**[0004]** In some embodiments of the present disclosure, an order allocation system is provided. The system may include a non-transitory computer readable storage medium and a processor. The non-transitory computer readable storage medium may be configured to store an executable module. The executable module may include a receiving unit and an order allocation unit. The receiving unit may be configured to receive order information and user information. The user information may include at least one of location information or time information. The order allocation unit may be configured to allocate an order based on at least one of the location information or the time information. The processor may be configured to execute an executable module stored in the computer readable storage medium.

**[0005]** According to some embodiments of the present disclosure, the order allocation system may further include an order receiving range determination unit, a number of orders receiving sub-unit, and an order density acquisition sub-unit. The order receiving range determination unit may be configured to obtain at least one of an order spread region or an order receiving range. The number of orders receiving sub-unit may be configured to obtain the number of orders within the order spread region. The order density acquisition sub-unit may be configured to obtain an order density based on at least one of the order spread region, the order receiving range, or the number of orders.

**[0006]** According to some embodiments of the present disclosure, the order allocation system may further include an order snatching prediction unit. The order snatching prediction unit may be configured to predict a user order snatching rate based on at least one of the location information or the time information.

**[0007]** According to some embodiments of the present disclosure, the order allocation system may further include a distance determination unit and an order snatching prediction unit. The distance determination unit may be configured to obtain a straight line distance or a route distance from a user location to a departure location of the order. The order snatching prediction unit may be configured to predict the user order snatching probability based on at least one of the straight line distance or the route distance.

**[0008]** According to some embodiments of the present disclosure, the order allocation system may further include an acquisition unit and a subscription probability calculation unit. The acquisition unit may be configured to obtain at least one of a historical order spread time of orders or a historical order snatching time of a user. The subscription probability calculation unit may be configured to predict the user order snatching probability based on at least one of the historical order spread time or the historical order snatching time.

**[0009]** According to some embodiments of the present disclosure, the order snatching prediction unit may be further configured to build a user order snatching prediction model based on at least one of the location information or the time information.

**[0010]** According to some embodiments of the present disclosure, the order allocation system may further include an accuracy determination unit. The accuracy determination unit may be configured to determine an accuracy of the order snatching prediction.

**[0011]** According to some embodiments of the present disclosure, the order allocation system may further include an actual order snatching determination unit and an accuracy determination unit. The actual order snatching determination unit may be configured to determine an actual order snatching probability of a user for the order. The accuracy determination unit may be configured to determine the accuracy of the order snatching prediction based on the predicted order snatching probability and the actual order snatching probability of the user.

**[0012]** In some embodiments of the present disclosure, a method of allocating orders is provided. The method may include: receiving order information and user information, wherein the order information and the user information may include at least one of location information or time information of an order; and allocating the order based on at least one of the location information or the time information.

**[0013]** In some embodiments of the present disclosure, a tangible non-transitory computer readable storage medium configured to store information is provided. When the information is read by a computer, the computer may implement the method of allocating

spread time or the historical order snatching time.

**[0020]** According to some embodiments of the present disclosure, predicting the user order snatching probability may include: obtaining at least one of the location information or time information of the order; building a user order snatching prediction model based on at least one of the location information or the time information; and predicting the user order snatching probability based on the user order snatching prediction model.

**[0021]** According to some embodiments of the present disclosure, predicting the user order snatching probability may include determining an accuracy of the order snatching prediction.

**[0022]** According to some embodiments of the present disclosure, determining the accuracy of the order snatching prediction may include: obtaining a predicted order snatching probability of a user for the order; determining an actual order snatching probability of the user for the order; and determining the accuracy of the order snatching prediction based on the predicted order snatching probability and the actual order snatching probability of the user.

**[0022a]** In view of the above, according to a first aspect of the present disclosure, there is provided an order allocation system, comprising: at least one storage medium including a set of instructions; at least one processor in communication with the at least one storage medium, wherein when executing the set of instructions, the at least one processor is directed to: receive first electrical signals encoding order information and user information, wherein the order information and the user information are associated with an order and include at least one of location information or time information; and operate logical circuits in the at least one processor to determine at least one service provider based on at least one of the location information or the time information.

**[0022b]** According to a second aspect of the present disclosure, there is provided a method implemented on a computing device having at least one processor, at least one computer-readable storage medium, and a communication platform connected to a network, comprising: receiving first electrical signals encoding order information and user

information, wherein the order information and user information are associated with an order and include at least one of location information or time information; and operating logical circuits in the at least one processor to determine at least one service provider based on at least one of the location information or the time information.

## BRIEF DESCRIPTION OF THE DRAWINGS

**[0023]** The drawings described herein are used to provide a further understanding of the present disclosure, all of which form a part of this specification. It is to be expressly understood, however, that the exemplary embodiment(s) of this disclosure are for the purpose of illustration and description only and are not intended to limit the scope of the present disclosure. The same label in each drawing represents the same parts.

**[0024]** FIG. 1 is a schematic diagram of a network environment including location-based service system according to some embodiments of the present disclosure;

**[0025]** FIG. 2 is a schematic diagram of the order allocation system according to some embodiments of the present disclosure;

**[0026]** FIG. 3 is a schematic diagram of the order allocation system according to some embodiments of the present disclosure;

**WHAT IS CLAIMED IS:**

1. An order allocation system, comprising:

at least one storage medium including a set of instructions;

at least one processor in communication with the at least one storage medium, wherein when executing the set of instructions, the at least one processor is directed to:

receive first electrical signals encoding order information and user information, wherein the order information and the user information are associated with an order and include at least one of location information or time information; and

operate logical circuits in the at least one processor to determine at least one service provider based on at least one of the location information or the time information.

2. The system of claim 1, wherein the time information includes at least one of an order spread time or an order snatching time of a user.

3. The system of claim 1, wherein the location information includes at least one of a departure location, an original location, a destination, coordinate information, or a geographical region.

4. The system of claim 3, wherein the at least one processor is further directed to:

operate the logical circuits in the at least one processor to obtain at least one of an order spread region or an order receiving range;

operate the logical circuits in the at least one processor to obtain a number of orders within the order spread region; and

operate the logical circuits in the at least one processor to obtain an order density based on at least one of the order spread region, the order receiving range, or the number of orders.

5. The system of claim 1, wherein the at least one processor is further directed to:

operate the logical circuits in the at least one processor to determine a user order snatching probability based on at least one of the location information or the time information.

6. The system of claim 5, wherein the at least one processor is further directed to:

operate the logical circuits in the at least one processor to obtain at least one of a straight line distance or a route distance from a user location to a departure location of the order; and

operate the logical circuits in the at least one processor to determine the user order

snatching probability based on at least one of the straight line distance or the route distance.

7. The system of claim 5, wherein the at least one processor is further directed to:

operate the logical circuits in the at least one processor to obtain at least one of a historical order spread time of orders or a historical order snatching time of a user; and

operate the logical circuits in the at least one processor to determine the user order snatching probability based on at least one of the historical order spread time or the historical order snatching time.

8. The system of claim 5, wherein the at least one processor is further directed to operate the logical circuits in the at least one processor to determine a user order snatching prediction model based on at least one of the location information or the time information.

9. The system of claim 5, wherein the at least one processor is further directed to:

operate the logical circuits in the at least one processor to determine an accuracy of the order snatching prediction.

10. The system of claim 9, wherein the at least one processor is further directed to:

operate the logical circuits in the at least one processor to determine an actual order snatching probability of a user for the order; and

operate the logical circuits in the at least one processor to determine the accuracy of the order snatching prediction based on the predicted order snatching probability and the actual order snatching probability of the user.

11. A method implemented on a computing device having at least one processor, at least one computer-readable storage medium, and a communication platform connected to a network, comprising:

receiving first electrical signals encoding order information and user information, wherein the order information and user information are associated with an order and include at least one of location information or time information; and

operating logical circuits in the at least one processor to determine at least one service provider based on at least one of the location information or the time information.

12. The method of claim 11, wherein the time information includes at least one of an order

spread time or an order snatching time of a user.

13. The method of claim 11, wherein the location information includes at least one of a departure location, an original location, a destination, coordinate information, or a geographical region.

14. The method of claim 13, further comprising:

operating the logical circuits in the at least one processor to obtain at least one of an order spread region or an order receiving range, and a number of orders;

operating the logical circuits in the at least one processor to obtain an order density based on at least one of the order spread region or the order receiving range, and the number of orders; and

operating the logical circuits in the at least one processor to determine the at least one service provider based on the order density.

15. The method of claim 11, further comprising:

operating the logical circuits in the at least one processor to determine a user order snatching probability based on at least one of the location information or the time information; and

operating the logical circuits in the at least one processor to determine the service provider based on the user order snatching probability.

16. The method of claim 15, further comprising:

operating the logical circuits in the at least one processor to obtain at least one of a straight line distance or a route distance from a user location to a departure location of the order; and

operating the logical circuits in the at least one processor to obtain the user order snatching probability based on at least one of the straight line distance or the route distance.

17. The method of claim 15, further comprising:

operating the logical circuits in the at least one processor to obtain at least one of a historical order spread time of orders or a historical order snatching time of a user; and

operating the logical circuits in the at least one processor to determine the user order snatching probability based on at least one of the historical order spread time or the historical order snatching time.

18. The method of claim 15, further comprising:

operating the logical circuits in the at least one processor to obtain at least one of the location information or the time information;

operating the logical circuits in the at least one processor to determine a user order snatching prediction model based on at least one of the location information or the time information; and

operating the logical circuits in the at least one processor to determine the user order snatching probability based on the user order snatching prediction model.

19. The method of claim 15, further comprising:

operating the logical circuits in the at least one processor to determine an accuracy of the order snatching prediction.

20. The method of claim 19, further comprising:

operating the logical circuits in the at least one processor to obtain a predicted order snatching probability of a user for the order;

operating the logical circuits in the at least one processor to determine an actual order snatching probability of the user for the order; and

operating the logical circuits in the at least one processor to determine the accuracy of the order snatching prediction based on the predicted order snatching probability and the actual order snatching probability of the user.