CLAIMS

What is claimed is:

1. A system for predicting a delivery time for batch orders, the system comprising:

one or more processors; and

a memory having instructions stored therein, the instructions, when executed by the one or more processors, cause the one or more processors to:

identify a first location, wherein one or more merchants are located in the first location;

identify a second location, wherein one or more users are located in the second location;

predict a dynamic buffer time;

wherein the delivery time comprises the dynamic buffer time, and

wherein the one or more processors is or are configured to predict the dynamic buffer time based on one or more batch orders between a first bearing of the first location and the second location and a second bearing of the first location and a third location.

2. The system of claim 1, wherein the one or more processors is or are configured to predict the dynamic buffer time based on at least one of: a proportion of batch orders or a number of batch orders between the first bearing of the first location and the second location and the second bearing of the first location and the third location.

3. The system of claim 1 or 2, wherein the dynamic buffer time is additional time due to order batching.

4. The system of any one of claims 1-3, wherein the first bearing and the second bearing have an angle difference of 45 degrees.

5. The system of any one of claims 1-4, wherein the one or more processors is or are configured to allow the one or more users in the second location to batch order from the one or more merchants in the first location.

6. The system of claim 5, wherein the one or more processors is or are configured to assign a same delivery driver for the batch order.

7. The system of any one of claims 1-6,

wherein the one or more processors is or are configured to predict the dynamic buffer time based on contextual information, and

wherein the contextual information comprises one of: an ordering time, a merchant type, a price range and a basket size of an order.

8. The system of any one of claims 1-7,

wherein the one or more processors is or are configured to predict the dynamic buffer time using machine learning of historical data of single orders, and

wherein the historical data comprises at least one of: an allocation time prediction, a pick-up routing time prediction, a waiting time prediction, an order preparation time prediction, and a drop-off routing time prediction.

9. The system of claim 8, wherein the one or more processors is or are configured to perform skewness data transformation on the historical data prior to using the historical data for predicting the dynamic buffer time.

10. A method for predicting a delivery time for batch orders, the method comprising using one or more processors to:

identify a first location, wherein one or more merchants are located in the first location;

identify a second location, wherein one or more users are located in the second location;

predict a dynamic buffer time;

wherein the delivery time comprises the dynamic buffer time, and

wherein the one or more processors is or are configured to predict the dynamic buffer time based on one or more batch orders between a first bearing of the first location and the second location and a second bearing of the first location and a third location.

11. The method of claim 10, comprising using the one or more processors to:

predict the dynamic buffer time based on at least one of: a proportion of batch orders or a number of batch orders between the first bearing of the first location and the second location and the second bearing of the first location and the third location.

12. The method of claim 10 or 11, wherein the dynamic buffer time is additional time due to order batching.

13. The method of any one of claims 10-12, wherein the first bearing and the second bearing have an angle difference of 45 degrees.

14. The method of any one of claims 10-13, comprising using the one or more processors to:

allow the one or more users in the second location to batch order from the one or more merchants in the first location.

15. The method of claim 14, comprising using the one or more processors to assign a same delivery driver for the batch order.

16. The method of any one of claims 10-15, comprising using the one or more processors to:

predict the dynamic buffer time based on contextual information;

wherein the contextual information comprises one of: an ordering time, a merchant type, a price range and a basket size of an order.

17. The method of any one of claims 10-16, comprising using the one or more processors to:

predict the dynamic buffer time using machine learning of historical data of single orders;

wherein the historical data comprises at least one of: an allocation time prediction, a pick-up routing time prediction, a waiting time prediction, an order preparation time prediction, and a drop-off routing time prediction.

18. The method of claim 17, comprising using the one or more processors to perform skewness data transformation on the historical data prior to using the historical data for predicting the dynamic buffer time.

19. A non-transitory computer-readable medium storing computer executable code comprising instructions for causing one or more processors to carry out a method for predicting a delivery time for batch orders according to any one of claims 10 to 18.

20. A computer executable code comprising instructions for causing one or more processors to carry out a method for predicting a delivery time for batch orders according to any one of claims 10 to 18.