Claims

1. A method implementable by one or more computing devices, the method comprising:

obtaining transaction data uploaded by a terminal, wherein the transaction data is associated with a transaction between the terminal and a transaction device, wherein said transaction data includes transaction address information comprising a location of the terminal concurrent with the transaction, said transaction address information being determined via a Global Positioning System (GPS);

determining a transaction device identifier and the transaction address information included in the transaction data, wherein the transaction device identifier comprises an identifier of the transaction device; and

determining and storing the transaction address as a location of the transaction device corresponding to the transaction device identifier.

2. The method of claim 1, wherein the transaction address information is determined and stored as the location of the transaction device corresponding to the transaction device identifier in response to the location information of the transaction device corresponding to the transaction device identifier being not previously stored.

3. The method of claim 1, wherein determining and storing the transaction address information as the location of the transaction device includes modifying previously stored location information based at least in part on the transaction address information, and storing the modified location information in response to the location information of the transaction device corresponding to the transaction device identifier having been stored previously.

4. The method of claim 1, further comprising determining one or more transaction devices having a distance from the terminal being currently less than a set distance based at least in part on current location information of the terminal and respective stored location information of each transaction device.

5. The method of claim 4, further comprising providing respective location information and attribute information of the one or more transaction devices having the distance from the terminal being currently less than the set distance to the terminal.

6. The method of claim 1, further comprising providing respective location information and attribute information of one or more transaction devices that are located in a preset geographical location range of the terminal and corresponding type information of the geographical location range to the terminal.

7. The method of claim 1, wherein the transaction device includes a vending machine or a point of sales machine.

8. One or more computer-readable media storing executable instructions that, when executed by one or more processors, cause the one or more processors to perform acts comprising:

receiving respective pieces of geographical location information determined via a Global Positioning System (GPS) and reported by a terminal at different reporting time points;

obtaining transaction data uploaded by the terminal, wherein the transaction data is associated with a transaction between the terminal and a transaction device;

determining a transaction device identifier and a transaction time point included in the transaction data, wherein the transaction device identifier comprises an identifier of the transaction device;

determining a reporting time point having a shortest period of time from the transaction time point based at least in part on the respective reporting time points and the transaction time point; and

determining and storing the geographical location information reported by the terminal at the determined reporting time point as a location of the transaction device corresponding to the transaction device identifier.

9. The one or more computer-readable media of claim 8, wherein the geographical location information reported by the terminal at the determined reporting time point is determined and stored as the location of the transaction device corresponding to the transaction device identifier in response to the location information of the transaction device corresponding to the transaction device identifier being not previously stored.

10. The one or more computer-readable media of claim 8, wherein determining and storing the geographical location information reported by the terminal at the determined reporting time point is determined and stored as the location of the transaction device includes modifying previously stored location information based at least in part on the geographical location information reported by the terminal at the determined reporting time point, and storing the modified location information in response to the location information of the transaction device corresponding to the transaction device identifier having been stored previously.

11. The one or more computer-readable media of claim 8, the acts further comprising determining one or more transaction devices having a distance from the terminal being currently less than a set distance based at least in part on current location information of the terminal and respective stored location information of each transaction device.

12. The one or more computer-readable media of claim 11, the acts further comprising providing respective location information and attribute information of the one or more transaction devices having the distance from the terminal being currently less than the set distance to the terminal.

13. The one or more computer-readable media of claim 8, the acts further comprising providing respective location information and attribute information of one or more transaction devices that are located in a preset geographical location range of the terminal and corresponding type information of the geographical location range to the terminal.

14. The one or more computer-readable media of claim 8, wherein the transaction device includes a vending machine or a point of sales machine.

15. An apparatus comprising:

one or more processors;

memory;

an acquisition module stored in the memory and executable by the one or more processors to obtain transaction data uploaded by a terminal, wherein the transaction data is associated with a transaction between the terminal and a transaction device, wherein said transaction data includes transaction address information comprising a location of the

terminal concurrent with the transaction, said transaction address information being determined via a Global Positioning System (GPS);

a determination module stored in the memory and executable by the one or more processors to determine a transaction device identifier and the transaction address information included in the transaction data obtained by the acquisition module, wherein the transaction device identifier comprises an identifier of the transaction device; and

a storage module stored in the memory and executable by the one or more processors to determine and store the transaction address determined by the determination module as a location of the transaction device corresponding to the transaction device identifier.

16. The apparatus of claim 15, wherein the storage module is configured to determine and store the transaction address information as the location of the transaction device corresponding to the transaction device identifier in an event that the storage module has not previously stored the location information of the transaction device corresponding to the transaction device identifier.

17. The apparatus of claim 15, wherein the storage module is further configured to modify previously stored location information based at least in part on the transaction address information, and store the modified location information in an event that the storage module has previously stored the location information of the transaction device corresponding to the transaction device identifier.

18. The apparatus of claim 15, further comprising a service module to determine one or more transaction devices having a distance from the terminal being currently less than a set distance based at least in part on current location information of the terminal and respective stored location information of each transaction device.

19. The apparatus of claim 18, wherein the service module is further configured to provide respective location information and attribute information of the one or more transaction devices having the distance from the terminal being currently less than the set distance to the terminal.

20. The apparatus of claim 15, further comprising a service module to provide respective location information and attribute information of one or more transaction devices that are

located in a preset geographical location range of the terminal and corresponding type information of the geographical location range to the terminal.