instructions cause the electronic device to perform a method for providing transportation service. The method can include detecting, by at least one processor, a request queue associated with an area. The method can further include receiving transportation service requests, from remote terminal devices, to be placed in the request queue. The method can also include determining a number of the transportation service requests for the request queue. The method can further include activating the request queue in response to the determined number being greater than an activation threshold, and providing transportation service according to respective positions of the transportation service requests in the activated request queue.

[0008a] In view of the above, according to an aspect of the present disclosure, there is provided a computer-implemented method implemented on at least one device including at least one processor and at least one computer-readable storage medium, comprising: detecting, by the at least one processor, a request queue associated with an area; receiving transportation service requests, from remote terminal devices, to be placed in the request queue; determining, by the at least one processor, a number of the transportation service requests for the request queue; activating, by the at least one processor, the request queue in response to the determined number being greater than an activation threshold; determining whether there is more than one the activated queue in the area; in response to determining that there is more than one the activated queue in the area, increasing the activation threshold to a second activation threshold of the request queue according to

$$\mathrm{SAT} = \mathrm{FAT} + \frac{\mathrm{N} - \mathrm{T}}{\mathrm{queue_quit_coef}}$$

wherein the SAT is the second activation threshold, the FAT is the activation threshold, N is a number of the activated queues in the area, T is an activation number, and queue_quit_coef is a predetermined coefficient; and providing

transportation service according to respective positions of the transportation service requests in the activated request queue.

[0008b] According to another aspect of the present disclosure, there is provided a system to process transportation service requests in queue automatically, comprising: at least one processor configured to detect a request queue associated with an area; a memory; and a communication interface configured to receive transportation service requests, from remote terminal devices, to be placed in the request queue, wherein the at least one processor is further configured to: determine a number of the transportation service requests for the request queue; activate the request queue in response to the determined number being greater than an activation threshold; determine whether there is more than one the activated queue in the area; in response to determining that there is more than one the activated queue in the area, increase the activation threshold to a second activation threshold of the request queue according to

$$\mathrm{SAT} = \mathrm{FAT} + \frac{\mathrm{N} - \mathrm{T}}{\mathrm{queue_quit_coef}}$$

wherein the SAT is the second activation threshold, the FAT is the activation threshold, N is a number of the activated queues in the area, T is an activation number, and queue_quit_coef is a predetermined coefficient; and provide transportation service according to respective positions of the transportation service requests in the activated request queue.

[0008c] According to yet another aspect of the present disclosure, there is provided a non-transitory computer-readable medium that stores a set of instructions, when executed by at least one processor of an electronic device, cause the electronic device to perform a method to process transportation service requests in queue automatically, the method comprising: detecting a request queue associated with an area; receiving transportation service requests, from remote terminal devices, to be placed in the request queue; determining a number of the transportation service requests for the request queue; activating the request queue in response to the determined number being greater than an activation threshold; determining whether

there is more than one the activated queue in the area; in response to determining that there is more than one the activated queue in the area, increasing the activation threshold to a second activation threshold of the request queue according to

$$\mathrm{SAT} = \mathrm{FAT} + \frac{\mathrm{N} - \mathrm{T}}{\mathrm{queue_quit_coef}}$$

wherein the SAT is the second activation threshold, the FAT is the activation threshold, N is a number of the activated queues in the area, T is an activation number, and queue_quit_coef is a predetermined coefficient; and providing transportation service according to respective positions of the transportation service requests in the activated request queue.

[0009] It is to be understood that both the foregoing general description and the following detailed description are exemplary and explanatory only and are not restrictive of the invention, as claimed.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] FIG. 1 illustrates a schematic diagram of a system for providing transportation service, according to embodiments of the disclosure.

[0011] FIG. 2 illustrates a schematic diagram of an exemplary area, according to embodiments of the disclosure.

[0012] FIG. 3 illustrates a schematic diagram showing raising an activation threshold of a request queue, according to embodiments of the disclosure.

[0013] FIG. 4 illustrates a flowchart of an exemplary method for providing transportation service, according to embodiments of the disclosure.

[0014] FIG. 5 illustrates a flowchart of an exemplary method for determining a number of transportation service requests corresponding to a request queue, according to embodiments of the disclosure.

DETAILED DESCRIPTION

WHAT IS CLAIMED IS:

1. A computer-implemented method implemented on at least one device including at least one processor and at least one computer-readable storage medium, comprising:

detecting, by the at least one processor, a request queue associated with an area;

receiving transportation service requests, from remote terminal devices, to be placed in the request queue;

determining, by the at least one processor, a number of the transportation service requests for the request queue;

activating, by the at least one processor, the request queue in response to the determined number being greater than an activation threshold;

determining whether there is more than one the activated queue in the area;

in response to determining that there is more than one the activated queue in the area, increasing the activation threshold to a second activation threshold of the request queue according to

$$\mathrm{SAT} = \mathrm{FAT} + \frac{\mathrm{N} - \mathrm{T}}{\mathrm{queue_quit_coef}}$$

wherein the SAT is the second activation threshold, the FAT is the activation threshold, N is a number of the activated queues in the area, T is an activation number, and queue_quit_coef is a predetermined coefficient; and

providing transportation service according to respective positions of the transportation service requests in the activated request queue.

2. The method of claim 1, wherein the request queue remains active for a first reset period after being activated.

3. The method of claim 2, further comprising:

determining whether the number of the transportation service requests in the request queue is less than a deactivation threshold, wherein the deactivation threshold is less than the activation threshold; and

deactivating the request queue in response to the determined number being less than the deactivation threshold, after the request queue has been activated for the first reset period.

4. The method of claim 3, wherein the deactivated request queue is configured to receive no further transportation service request.

5. The method of claim 4, further comprising:

providing the transportation service to the transportation service requests remaining in the deactivated request queue.

6. The method of claim 1, wherein the area contains at least one active request queue and the method further comprises:

increasing the activation threshold in response to a number of the at least one active request queue being greater than an activation number.

7. The method of claim 1, wherein the transportation service request is associated with a plurality of features, and the plurality of features include at least one of:

an origin, a destination, a vehicle model, a type, and an estimated price.

8. The method of claim 7, wherein the type comprises a car-pooling type and a non-car-pooling type.

9. The method of claim 3, wherein the deactivated request queue remains deactivated for a second reset period before being reactivated.

10. The method of claim 7, wherein the respective positions of the transportation service requests in the activated request queue are determined according to the features.

11. A system to process transportation service requests in queue automatically, comprising:

at least one processor configured to detect a request queue associated with an area;

a memory; and

a communication interface configured to receive transportation service requests, from remote terminal devices, to be placed in the request queue, wherein

the at least one processor is further configured to:

determine a number of the transportation service requests for the request queue;

activate the request queue in response to the determined number being greater than an activation threshold;

determine whether there is more than one the activated queue in the area;

in response to determining that there is more than one the activated queue in the area, increase the activation threshold to a second activation threshold of the request queue according to

$$\mathrm{SAT} = \mathrm{FAT} + \frac{\mathrm{N} - \mathrm{T}}{\mathrm{queue_quit_coef}}$$

wherein the SAT is the second activation threshold, the FAT is the activation threshold, N is a number of the activated queues in the area, T is an activation number, and queue_quit_coef is a predetermined coefficient; and

provide transportation service according to respective positions of the transportation service requests in the activated request queue.

12. The system of claim 11, wherein the request queue remains active for a first reset period after being activated.

13. The system of claim 12, wherein the at least one processor is further configured to:

determine whether the number of the transportation service requests in the request queue is less than a deactivation threshold, wherein the deactivation threshold is less than the activation threshold; and

deactivate the request queue in response to the determined number being less than the deactivation threshold, after the request queue has been activated for the first reset period.

14. The system of claim 13, wherein the deactivated request queue is configured to receive no further transportation service request.

15. The system of claim 14, wherein the at least one processor is further configured to:

provide the transportation service to the transportation service requests remaining in the deactivated request queue.

16. The system of claim 11, wherein the area contains at least one active request queue and the at least one processor is further configured to:

increase the activation threshold in response to a number of the at least one active request queue being greater than an activation number.

17. The system of claim 11, wherein the transportation service request is associated with a plurality of features, and the plurality of features include:

an origin, a destination, a vehicle model, a type, and an estimated price.

18. The system of claim 13, wherein the deactivated request queue remains deactivated for a second reset period before being reactivated.

19. The system of claim 17, wherein the respective positions of the transportation service requests in the activated request queue are determined according to the features

20. A non-transitory computer-readable medium that stores a set of instructions, when executed by at least one processor of an electronic device, cause the electronic device to perform a method to process transportation service requests in queue automatically, the method comprising:

detecting a request queue associated with an area;

receiving transportation service requests, from remote terminal devices, to be placed in the request queue;

determining a number of the transportation service requests for the request queue;

activating the request queue in response to the determined number being greater than an activation threshold;

determining whether there is more than one the activated queue in the area;

in response to determining that there is more than one the activated queue in the area, increasing the activation threshold to a second activation threshold of the request queue according to

$$\mathrm{SAT} = \mathrm{FAT} + \frac{\mathrm{N} - \mathrm{T}}{\mathrm{queue_quit_coef}}$$

wherein the SAT is the second activation threshold, the FAT is the activation threshold, N is a number of the activated queues in the area, T is an activation number, and queue_quit_coef is a predetermined coefficient; and

providing transportation service according to respective positions of the transportation service requests in the activated request queue.